

telergon
gorlan team

Switch - disconnectors and changeover switches general catalogue

AC DC

gorlan team

Presentation

TELERGON is one of the leading companies in the field of electromechanical engineering. It designs and manufactures components and provides solutions for the isolation and protection of low voltage electrical equipment and components for electrical switching.

The experience and knowledge gained over the years working together in a spirit of continuous innovation and the talent of its staff, are the values that provide a reputation for the products manufactured by TELERGON.

The various ranges of TELERGON switch - disconnectors and changeover switches have numerous applications in the field of electrical engineering, including series specifically designed for use in renewable energy generating plants.

www.telergon.com

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PEFC



Amperes: 10 12 16 20 25 32 40 50 63 80 100 125 160 200 250 315 400 500 630 800 1000 1250 1600 1800 2000 2500 3150 4000 5000 6300

Switch - disconnectors

- **cam switches** 1P up to 12P — **T | TB | TF | TP** — Information Pages 4-7 — Product Pages 8-23 — Accessories Pages 40-47 — Diagrams Pages 48-59
- **modular** 3P | 3P+N | 6P | 8P — **ZBK** — Information Pages 60-61 — Product Pages 62-71
- **load-break** 3P | 3P+N — **S5** — Information Pages 72-73 — Product Pages 74-89
- **load-break** 6P | 8P — **S5M** — Information Pages 72-73 — Product Pages 90-99
- **load-break** 2P | 3P | 3P+N — **S6** — Information Pages 72-73 — Product Pages 100-103
- **enclosed load-break** 3P | 3P+N — **CIS** — Information Pages 72-73 — Product Pages 104-115
- **for transformer secondary protection** — **IPT** — Information Pages 72-73 — Product Pages 116-117
- **with fuses** 2P | 3P | 3P+N — **M11 | M21** — Information Pages 118-119 — Product Pages 120-129
- **enclosed with fuses** 3P | 3P+N — **CIF** — Information Pages 118-119 — Product Pages 130-139

Changeover switches

- **cam switches** 1P up to 4P — **T | TB | TF | TP** — Information Pages 4-7 — Product Pages 24-39 — Accessories Pages 40-47 — Diagrams Pages 48-59
- **modular** 3P | 3P+N — **ZBK** — Information Pages 60-61 — Product Pages 68-69
- **load-break in line** 3P | 3P+N — **S5L** — Information Pages 140-141 — Product Pages 142-145
- **back to back** 3P | 3P+N — **back to back** 3P | 3P+N — **S5F** — Information Pages 140-141 — Product Pages 144-145, 152-155
- **load-break compact** 3P | 3P+N — **CCF | CCP** — Information Pages 140-141 — Product Pages 146-151
- **load-break by-pass** 3P | 3P+N — **S5B** — Information Pages 140-141 — Product Pages 156-165
- **enclosed load-break** 3P | 3P+N — **CTR** — Information Pages 140-141 — Product Pages 166-179

Motorized unit Kit

- **for switch-disconnector or changeover switch** — **UM** — Information Pages 180-181 — Product Pages 182-185

DC switch - disconnectors

- **modular** — **ZFV** — Information Pages 186-187 — Product Pages 188-189
- **load-break** — **S5 DC** — Information Pages 186-187 — Product Pages 190-201
- **load-break multi-string or 1500 Vdc** — **S5M DC** — Information Pages 186-187 — Product Pages 202-217
- **load-break** — **S6 DC** — Information Pages 186-187 — Product Pages 218-225
- **load-break 1500 Vdc** — **S6N DC** — Information Pages 186-187 — Product Pages 226-227

Reference-page index Pages 228-231 — General information Pages 232-233

Cam switches

series
T|TB|TF|TP

Cam switches available in different construction models over a wide current range with a large variety of accessories.

According to:
IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14
RoHS

Testing and approvals:



Cam switches are manufactured in different series under strict quality controls to provide a reliable product that meets the most demanding requirements.

They consist of chambers, each containing up to two double break contacts of positive opening. These contacts silver alloy plated providing a long electromechanical life.

In sizes 0 - 1 and 2, the terminals are equipped with captive clamp screws to facilitate installation work, and all the connections themselves are covered to provide an IP20 protection rating.

The different configurations of contacts available provide flexible, faster and safer solutions for several electrical operations at a highly competitive cost.

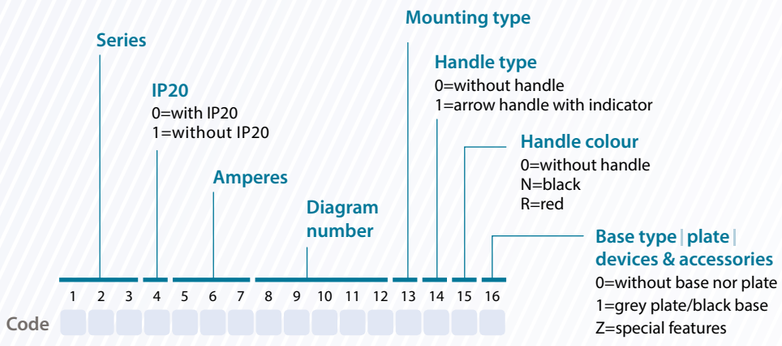
Range coding:

Standard products

They are listed in this section and are encoded according to the 16-digit bar logic explained below. This descriptive method will be used on all pages in the cam switches range for your convenience and better understanding.

Special products

They are made according to customer specifications or to comply with a diagram or special scheme. In these cases, the code is formed by the corresponding series (T-TB-TF-TP), the amperage and an order number assigned to the scheme (see blank diagrams form on page 49).



Example: T - 0 0 1 0 0 0 0 0 1 2 E 1 N 1

T series | 100 amperes | 012 diagram | E fixing | Standard handle | Black colour | Grey plate/black base |

series **T**



1 2 3 4 5 6
T -

Wide range of sizes and ratings.

Supplied with IP20 removable terminals protection on sizes 0 - 1 - 2 (except T175).

Wide range of devices and accessories.

series **TB**



1 2 3 4 5 6
T B -

Side access to all terminal screws (up and down).

Two different bodies depending on mounting type: door or base mounting.

Wide range of devices and accessories.

series **TF**



1 2 3 4 5 6
T F -

Square body, smooth sides, axial access to terminal screws.

Two different bodies depending on mounting type: door or base mounting.

Wide range of devices and accessories.

series **TP**



1 2 3 4 5 6
T P -

Reduce-sized body.

Door mounting only.

Wide range of devices and accessories.

series | type **T|P**



IP65

Serie T

1 2 3 4 5 6
C I T P

- Cam switch in plastic enclosure for gland entry.
- From 12 up to 40 A.
- Padockable handle under request.

series | type **T-TF|R**



IP65

Serie T

1 2 3 4 5
C I T R

Serie TF

1 2 3 4 5
C T F R

- Cam switch in plastic enclosure for gland entry.
- From 25 up to 100 A.
- Padockable handle under request.

series | type **T-TB|A-C**



IP55

Serie T

1 2 3 4 5
C I T A
1 2 3 4 5
C I T C

Serie TB

1 2 3 4 5
C T B A
1 2 3 4 5
C T B C

- Cam switch in metal enclosure of cast aluminium
  4 A From 12 up to 63 A.
- In sheet steel enclosure
  4 C From 100 A upwards.
- Gland entry.
- Several enclosure sizes.
- Padockable handle under request.

series | type **T-TB|F-L**



IP55

Serie T

1 2 3 4 5
C I T L
1 2 3 4 5
C I T F

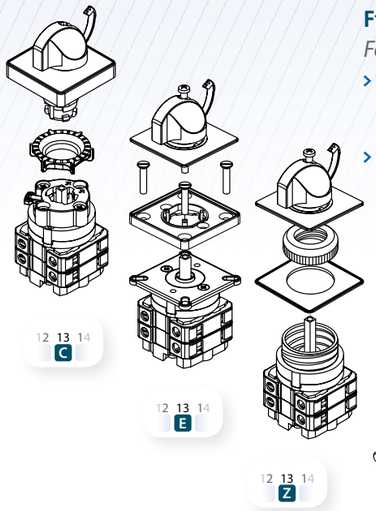
Serie TB

1 2 3 4 5
C T B L
1 2 3 4 5
C T B F

- Cam switch in metal enclosure of cast aluminium
  4 L with fuse holders, from 16 up to 63A.
- In sheet steel enclosure
  4 F with fuse holders, from 100A upwards.
- Gland entry.
- Several enclosure sizes.
- Fuses not included.
- Padockable handle under request.

» **Ask for more information about these applications with enclosure.**

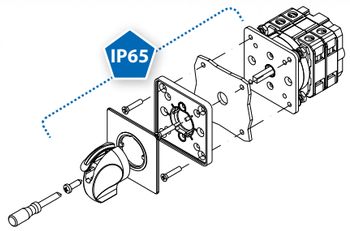
TP | T | TB | TF



Fixing with screws | E type

For T - TB - TF - TP series

- Frontal fixing plate for 4 screws, reversible mounting plate in T series (except T175 & size 3).
- Door mounting with arrow handle, indicating plate, escutcheon and fixing plate IP65.



Central quick fixing ø 22 | C type

For T - TB - TF series

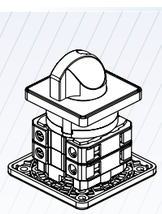
- Door mounting for Ø 22 mm available for sizes 0 and 1.
- For arrow handle with indicator or padlockable handle.
- Maximum number of chambers supported
  Size 0 = 6
  Size 1 = 4

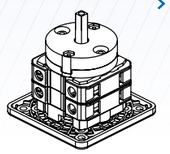
Central fixing with metal nut Ø 22 | Z type

For T - TF series

- Door mounting for metal nut Ø 22 mm available for sizes 0 and 1.

(also Ø 30 mm under request).





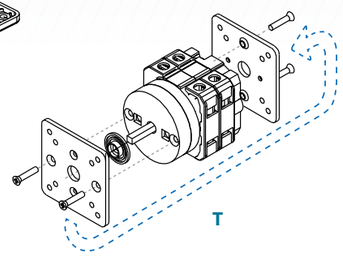
Base mounting by screws with direct handle | D type
Base mounting by screws without plate and handle | G type

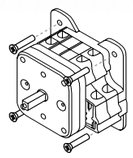
For T series

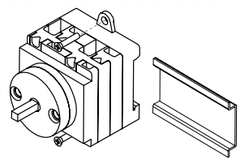
- Rear fixing plate for 4 screws, reversible mounting plate in T serie (except T175 & size 3).

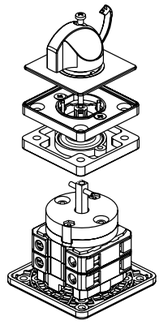
For TB - TF series

- Fixed rear support plate as standard.
- Serie TB for 4 screws.
- Serie TF for two screws (also DIN rail).







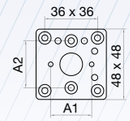


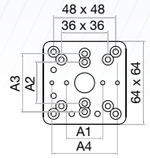
Base mounting with clutch device and door handle | F type

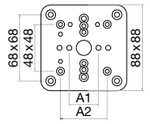
For T - TB - TF series

- Rear fixing plate for 4 screws in T - TB series or two screws and DIN rail in TF serie.
- With clutch device and door lock, according to series and sizes.
- The clutch device (D501) for size 0, if it is combined with other accessory, must be size 1.
- The clutch device (D501) and shaft extension are supplied separately (as accessories) or incorporated with the cam switch (size 3 is always incorporated with the cam switch).
- Specify useful depth of the space available when ordering.

Door mounting







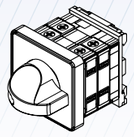
Size	Models		13
0	A1 = 28 mm	A2 = 32 mm	M
	A1 = 30 mm	A2 = 34 mm	N
	A1 = 35 mm	A2 = 38 mm	O
1	A1 = 28 mm A4 = 46 mm	A2 = 32 mm	M
	A1 = 33 mm A3 = 47 mm	A2 = 30 mm A4 = 50 mm	N
	A1 = 32 mm A3 = 45 mm	A2 = 32 mm A4 = 45 mm	P
2	A1 = 38 mm	A3 = 40 mm	M
	A1 = 30 mm	A2 = 50 mm	P

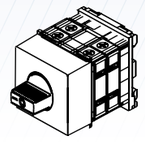
Multi-distance fixing plates with screws

For T - TB - TF series

- Multidrill plates for different fixing distances.
- Fixing with two screws for mounting without base nor indicating plate.
- Available for sizes 0 - 1 - 2.
  (size 0 also supports multi-fixing plate size 1).

Base mounting





DIN rail mounting with direct handle | A type

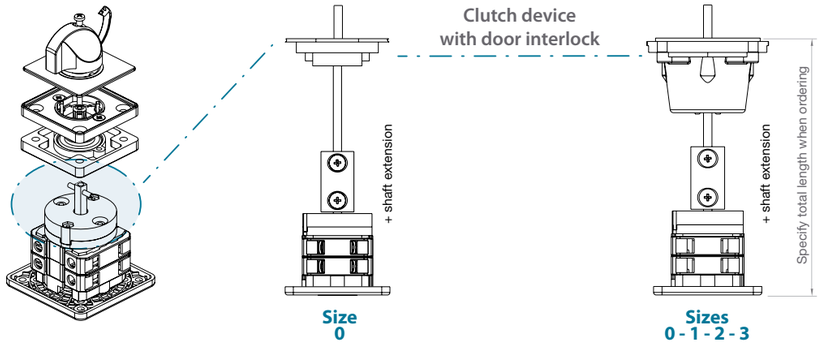
For T series

- Rear fixing support (D904) for T series sizes 0 and 1.
- DIN rail is included in TF series.

DIN rail mounting with modular handle | H type

For TF series

- Rear fixing support and modular handle tape (D905) for T - TF series size 0.



series TP|T|TB|TF

TP | T | TB | TF
Door mounting switch
1P up to 12P

Size 0
A 10|12|16|20|25|32



Technical information

consult | consult | consult | consult

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				TP10	T12	T20	TB20	TB25	TB32	TF12	TF16	TF25
Rated thermal current	Ith		A	12	16	25	20	25	32	20	25	32
Rated insulation voltage	Ui		V	500	500	500	500	500	500	690	690	690
Rated impulse withstand voltage	Uimp		kV	4	6	6	6	6	6	6	6	6
AC rated operational current	Ie	Ue 415V AC21A	A	12	16	25	20	25	32	20	25	32
		Ue 415V AC22A	A	12	16	25	20	25	32	20	25	32
		Ue 415V AC23A	A	10	-	-	20	25	32	-	-	-
		Ue 500V AC21A	A	-	16	20	20	25	32	-	-	-
		Ue 500V AC22A	A	-	16	20	20	25	32	-	-	-
		Ue 500V AC23A	A	-	-	-	16	20	25	-	-	-
		Ue 690V AC21A	A	-	-	-	-	-	-	16	25	32
		Ue 690V AC22A	A	-	-	-	-	-	-	16	25	25
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	3	4	4	5,4	6,7	8,6	4	5,5	7,5
		3x240V AC3	kW	2,2	3	4	3,7	4,6	5,9	4	5,5	5,5
		3x240V AC4	kW	-	1,1	1,5	2,9	3,7	4,6	1,5	2,2	3
		1x240V AC3	kW	-	1,5	2,2	2,1	2,7	4	2,2	3	4
		1x240V AC4	kW	-	0,37	0,55	1	1,25	1,5	0,55	0,75	1,1
		3x415V AC23A	kW	4,6	5,5	7,5	9,3	11,7	15	7,5	11	11
		3x415V AC3	kW	4	4	5,5	6,4	8	10,3	5,5	7,5	7,5
		3x415V AC4	kW	-	2,2	3	3,1	3,8	5,5	3	4	5,5
		1x400V AC3	kW	-	2,2	3	3,6	4,5	5,7	3	4	5,5
		1x400V AC4	kW	-	0,75	1,1	1,7	2,2	3	1,1	1,5	1,5
		3x500V AC23A	kW	-	5,5	7,5	9	11	14	7,5	11	11
		3x500V AC3	kW	-	4	7,5	7,8	9,7	12,5	7,5	7,5	11
		3x500V AC4	kW	-	2,2	3	3,3	4,7	5,5	3	4	5,5
		3x690V AC23A	kW	-	-	-	-	-	-	7,5	11	15
		3x690V AC3	kW	-	-	-	-	-	-	5,5	7,5	11
		3x690V AC4	kW	-	-	-	-	-	-	3	4	5,5
Rated conditional short-circuit current			kA	5	10	10	5	5	5	5	5	5
Rated maximum current	gL-gG		A	16	25	25	35	35	35	20	25	32
Rated breaking capacity	400V; cos φ=0,45		A	80	80	100	160	200	256	100	160	200
Rated short-time withstand current (1 sec)			A	100	240	400	240	400	500	350	400	500
Mechanical durability (thousand of operations)				2000	1000	1000	1000	1000	1000	1000	1000	1000
Rigid copper conductor			mm²	2x4	2x4	2x4	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductor			mm²	2x2,5	2x2,5	2x2,5	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6
According to UL508 - CAN / CSA C22.2 Nº 14					**T12**	**T20**				**TF12**	**TF16**	**TF25**
Rated thermal current	Ith		A	-	12	20	-	-	-	16	20	25
General use rating			Vac	-	300	300	-	-	-	600	600	600
AC rated operational power		3x240V	HP	-	2	5	-	-	-	2	5	7,5
		3x480V	HP	-	-	-	-	-	-	5	10	12
		3x600V	HP	-	-	-	-	-	-	5	10	15

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series TP|T|TB|TF

Code: 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

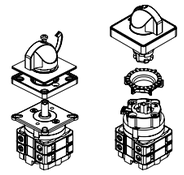
TP-0010	
T-0012	
T-0020	
TB-0020	
TB-0025	
TB-0032	
TF-0012	
TF-0016	
TF-0025	

Diagram

Poles	Posit. 0	Posit. 1		Chambers
1	X		0010	1
2	X		0011	
3	X		0012	2
4	X		0013	
5	X		0105	3
6	X		0106	
7	X		0107	4
8	X		0108	
9	X		0109	5
10	X		0110	
11	X		0111	6
12	X		0112	

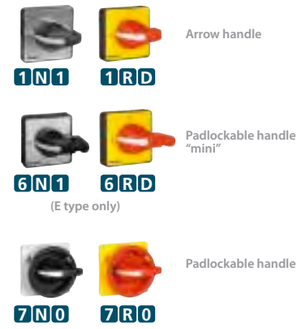
Type

Model or fixing



E — with screws
C — Ø22

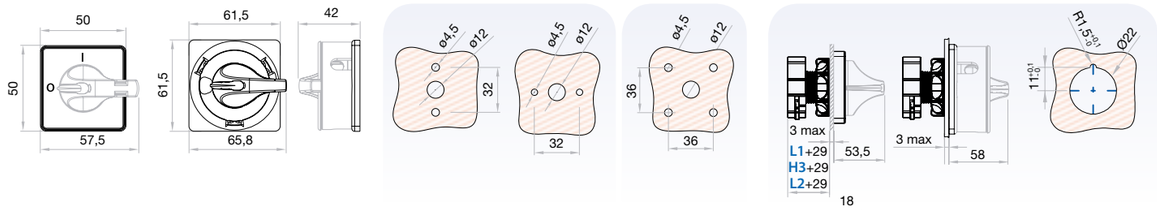
Plate and handle



Dimensions (mm)

E — Frontal fixing with 2 screws: TB | T - TF
Frontal fixing with 4 screws: T - TB - TF - TP

C — Frontal fixing Ø22: T - TB - TF



TP series	Chambers	1	2	3	4	5	6
	H1	26,8	36,3	45,8	55,3	64,8	74,3

T series	Chambers	1	2	3	4	5	6
	L1	34,5	46	57,5	69	80,5	92
	H2	37,5	49	60,5	72	83,5	95

TB series	Chambers	1	2	3	4	5	6
	H3	31,5	41,5	51,5	61,5	71,5	81,5

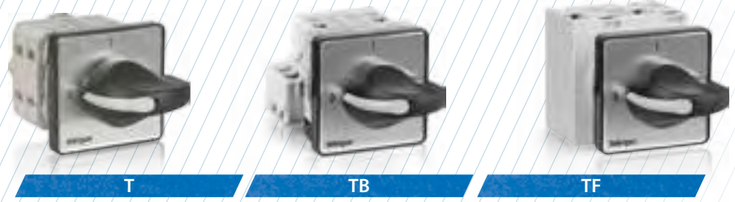
TF series	Chambers	1	2	3	4	5	6
	L2	45	55	65	75	85	95
	H4	48	58	68	78	88	98

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T|TB|TF

T | TB | TF
Base mounting switch with clutch device 1P up to 12P

Size 0
A 12|16|20|25|32



Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					**T12**	**T20**	**TB20**	**TB25**	**TB32**	**TF12**	**TF16**	**TF25**
Rated thermal current	Ith			A	16	25	20	25	32	20	25	32
Rated insulation voltage	Ui			V	500	500	500	500	500	690	690	690
Rated impulse withstand voltage	Uimp			kV	6	6	6	6	6	6	6	6
AC rated operational current	Ie	Ue 415V	AC21A	A	16	25	20	25	32	20	25	32
		Ue 415V	AC22A	A	16	25	20	25	32	20	25	32
		Ue 415V	AC23A	A	-	-	20	25	32	-	-	-
		Ue 500V	AC21A	A	16	20	20	25	32	-	-	-
		Ue 500V	AC22A	A	16	20	20	25	32	-	-	-
		Ue 500V	AC23A	A	-	-	16	20	25	-	-	-
		Ue 690V	AC21A	A	-	-	-	-	-	16	25	32
		Ue 690V	AC22A	A	-	-	-	-	-	16	25	25
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	4	4	5,4	6,7	8,6	4	5,5	7,5
		3x240V	AC3	kW	3	4	3,7	4,6	5,9	4	5,5	5,5
		3x240V	AC4	kW	1,1	1,5	2,9	3,7	4,6	1,5	2,2	3
		1x240V	AC3	kW	1,5	2,2	2,1	2,7	4	2,2	3	4
		1x240V	AC4	kW	0,37	0,55	1	1,25	1,5	0,55	0,75	1,1
		3x415V	AC23A	kW	5,5	7,5	9,3	11,7	15	7,5	11	11
		3x415V	AC3	kW	4	5,5	6,4	8	10,3	5,5	7,5	7,5
		3x415V	AC4	kW	2,2	3	3,1	3,8	5,5	3	4	5,5
		1x400V	AC3	kW	2,2	3	3,6	4,5	5,7	3	4	5,5
		1x400V	AC4	kW	0,75	1,1	1,7	2,2	3	1,1	1,5	1,5
		3x500V	AC23A	kW	5,5	7,5	9	11	14	7,5	11	11
		3x500V	AC3	kW	4	7,5	7,8	9,7	12,5	7,5	7,5	11
		3x500V	AC4	kW	2,2	3	3,3	4,7	5,5	3	4	5,5
		3x690V	AC23A	kW	-	-	-	-	-	7,5	11	15
		3x690V	AC3	kW	-	-	-	-	-	5,5	7,5	11
		3x690V	AC4	kW	-	-	-	-	-	3	4	5,5
Rated conditional short-circuit current				kA	10	10	5	5	5	5	5	5
Rated maximum current	gL-gG			A	25	25	35	35	35	20	25	32
Rated breaking capacity	400V; cos φ=0,45			A	80	100	160	200	256	100	160	200
Rated short-time withstand current (1 sec)				A	240	400	240	400	500	350	400	500
Mechanical durability (thousand of operations)					1000	1000	1000	1000	1000	1000	1000	1000
Rigid copper conductor				mm²	2x4	2x4	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductor				mm²	2x2,5	2x2,5	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6
According to UL508 - CAN / CSA C22.2 Nº 14					**T12**	**T20**				**TF12**	**TF16**	**TF25**
Rated thermal current	Ith			A	12	20	-	-	-	16	20	25
General use rating				Vac	300	300	-	-	-	600	600	600
AC rated operational power		3x240V		HP	2	5	-	-	-	2	5	7,5
		3x480V		HP	-	-	-	-	-	5	10	12
		3x600V		HP	-	-	-	-	-	5	10	15

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T|TB|TF

Code

1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

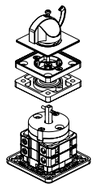
T-00012	
T-00020	
TB-0020	
TB-0025	
TB-0032	
TF-0012	
TF-0016	
TF-0025	

Diagram

Poles	Posit. 0	Posit. 1	Chambers
1	X	00010	1
2	X	00011	
3	X	00012	2
4	X	00013	
5	X	0107/5	3
6	X	0107/6	
7	X	0107/7	4
8	X	0107/8	
9	X	0107/9	5
10	X	01010	
11	X	01011	6
12	X	01012	

Type

Model or fixing

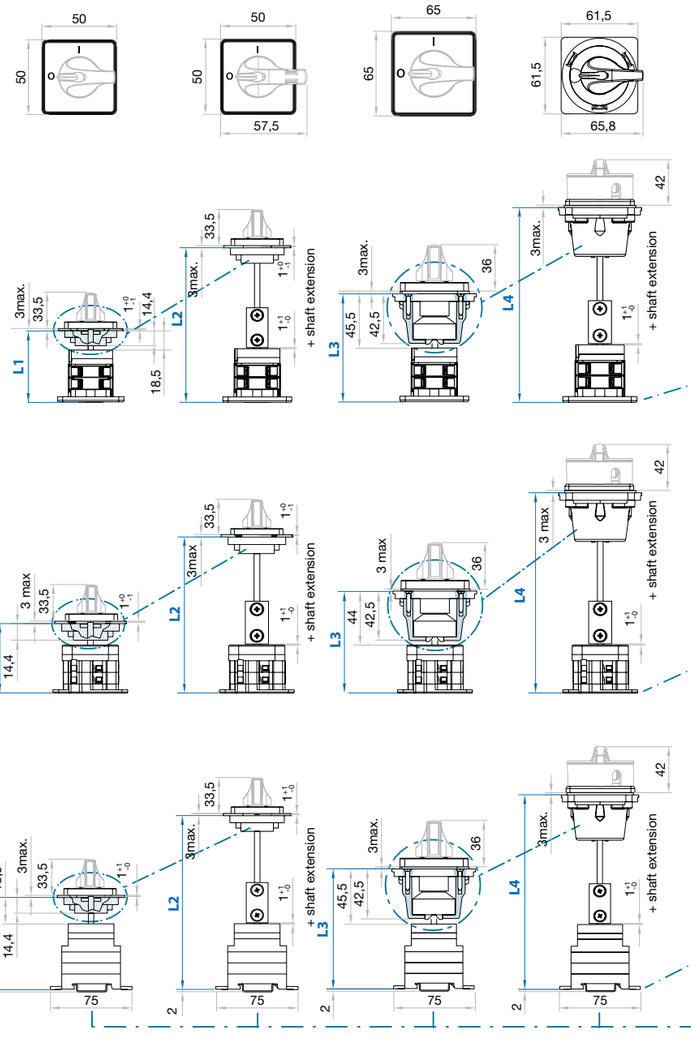


F

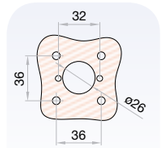
Plate and handle



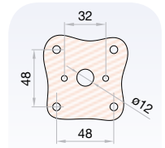
Dimensions (mm)



Frontal panel mechanization with 2 or 4 screws
L1 - L2

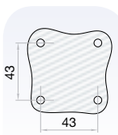


Frontal panel mechanization with 2 or 4 screws
L3 - L4



T series

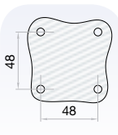
Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	56	+11,5	94	+11,5	83	+11,5	121	+11,5
max			256				283	



L2 - L4
Specify length when ordering

TB series

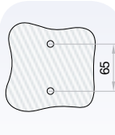
Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	46	+10	84	+10	75,5	+10	113	+10
max			246				275,5	



L2 - L4
Specify length when ordering

TF series

Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	65,5	+10	103,5	+10	92,5	+10	130,5	+10
max			265,5				292,5	



L2 - L4
Specify length when ordering

IEC60715/TH35-7,5
DIN46277

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Door mounting switch

1P up to 12P

Size 1

A 16|25|32|40



T

Technical information

According to IEC / EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	25	32	40	50
Rated insulation voltage	Ui		V	690	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	8	8
AC rated operational current	Ie	Ue 415V AC21A	A	25	32	40	50
		Ue 415V AC22A	A	25	32	40	50
		Ue 690V AC21A	A	25	32	40	50
		Ue 690V AC22A	A	25	25	40	40
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	5,5	7,5	11	15
		3x240V AC3	kW	5,5	5,5	7,5	11
		3x240V AC4	kW	2,2	3	4	4
		1x240V AC3	kW	3	4	5,5	5,5
		1x240V AC4	kW	0,75	1,1	1,5	2,2
		3x415V AC23A	kW	11	11	15	18,5
		3x415V AC3	kW	7,5	7,5	11	15
		3x415V AC4	kW	4	5,5	5,5	7,5
		1x400V AC3	kW	4	5,5	7,5	7,5
		1x400V AC4	kW	1,5	1,5	2,2	3
		3x500V AC23A	kW	11	11	15	18,5
		3x500V AC3	kW	7,5	11	11	15
		3x500V AC4	kW	4	5,5	5,5	7,5
		3x690V AC23A	kW	11	15	18,5	30
		3x690V AC3	kW	7,5	11	15	22
		3x690V AC4	kW	4	5,5	5,5	7,5
Rated conditional short-circuit current			kA	10	10	10	10
Rated maximum current	gL-gG		A	32	32	50	50
Rated breaking capacity	400V; cos φ=0,45		A	160	200	256	320
Rated short-time withstand current (1 sec)			A	500	650	725	800
Mechanical durability (thousand of operations)				1000	1000	1000	1000
Rigid copper conductor			mm^2	2x6	2x6	2x10	2x10
Flexible copper conductor			mm^2	2x4	2x4	2x6	2x6
According to UL508 - CAN / CSA C22.2 Nº 14				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	16	25	32	40
General use rating			Vac	600	600	600	600
AC rated operational power		3x240V	HP	5,3	7,5	10	15
		3x480V	HP	15	15	20	25
		3x600V	HP	20	20	25	30

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

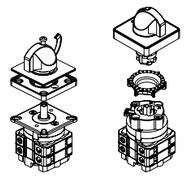
Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp
T-00016
T-00025
T-00032
T-00040

Diagram

Poles	Posit. 0	Posit. 1	Chambers
1	X	000 10	1
2	X	000 11	
3	X	000 12	2
4	X	000 13	
5	X	010 / 5	3
6	X	010 / 6	
7	X	010 / 7	4
8	X	010 / 8	
9	X	010 / 9	5
10	X	010 10	
11	X	010 11	6
12	X	010 12	

Type
Model or fixing



E with screws — C Ø22

Plate and handle


1N1

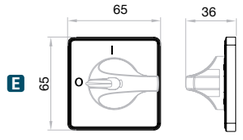

1RD Arrow handle

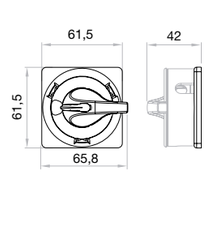

7N0

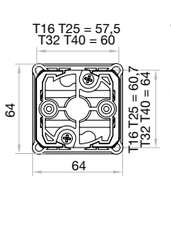

7R0 Padlockable handle

Dimensions (mm)

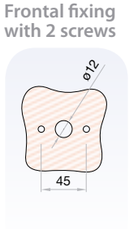
E



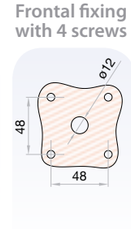




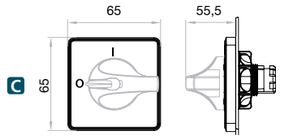
Frontal fixing with 2 screws

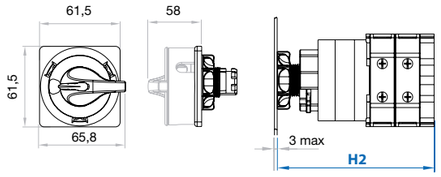


Frontal fixing with 4 screws

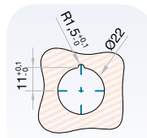


C





Frontal fixing Ø22



T series	Chambers	1□	2□	3□	4□	5□	6□
T16 T25	L	46,4	60,6	74,8	89	103,2	117,4
	H1	49,6	63,8	78	92,2	106,4	120,6
	H2	75,5	89,5	103,7	117,9	132,1	146,3
T32 T40	L	49,8	67,3	84,8	102,3	119,8	137,3
	H1	53	70,5	88	105,5	123	140,5
	H2	78,8	96,3	113,8	131,3	148,8	166,3

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Base mounting switch with clutch device 1P up to 12P

Size 1
A 16|25|32|40



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	25	32	40	50
Rated insulation voltage	Ui		V	690	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	8	8
AC rated operational current	Ie	Ue 415V AC21A	A	25	32	40	50
		Ue 415V AC22A	A	25	32	40	50
		Ue 690V AC21A	A	25	32	40	50
		Ue 690V AC22A	A	25	25	40	40
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	5,5	7,5	11	15
		3x240V AC3	kW	5,5	5,5	7,5	11
		3x240V AC4	kW	2,2	3	4	4
		1x240V AC3	kW	3	4	5,5	5,5
		1x240V AC4	kW	0,75	1,1	1,5	2,2
		3x415V AC23A	kW	11	11	15	18,5
		3x415V AC3	kW	7,5	7,5	11	15
		3x415V AC4	kW	4	5,5	5,5	7,5
		1x400V AC3	kW	4	5,5	7,5	7,5
		1x400V AC4	kW	1,5	1,5	2,2	3
		3x500V AC23A	kW	11	11	15	18,5
		3x500V AC3	kW	7,5	11	11	15
		3x500V AC4	kW	4	5,5	5,5	7,5
		3x690V AC23A	kW	11	15	18,5	30
		3x690V AC3	kW	7,5	11	15	22
		3x690V AC4	kW	4	5,5	5,5	7,5
Rated conditional short-circuit current			kA	10	10	10	10
Rated maximum current	gL-gG		A	32	32	50	50
Rated breaking capacity	400V; cos φ=0,45		A	160	200	256	320
Rated short-time withstand current (1 sec)			A	500	650	725	800
Mechanical durability (thousand of operations)				1000	1000	1000	1000
Rigid copper conductor			mm^2	2x6	2x6	2x10	2x10
Flexible copper conductor			mm^2	2x4	2x4	2x6	2x6
According to UL508 - CAN / CSA C22.2 Nº 14				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	16	25	32	40
General use rating			Vac	600	600	600	600
AC rated operational power		3x240V	HP	5,3	7,5	10	15
		3x480V	HP	15	15	20	25
		3x600V	HP	20	20	25	30

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

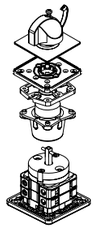
Code: 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp
T-00016
T-00025
T-00032
T-00040

Diagram

Poles	Posit. 0	Posit. 1	Chambers
1	X	00010	1
2	X	00011	
3	X	00012	2
4	X	00013	
5	X	0107/5	3
6	X	0107/6	
7	X	0107/7	4
8	X	0107/8	
9	X	0107/9	5
10	X	01010	
11	X	01011	6
12	X	01012	

Type
Model or fixing



F

Plate and handle



1N1



1RD — Arrow handle

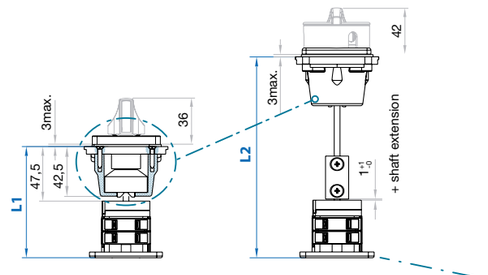


7N0

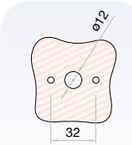


7R0 — Padlockable handle

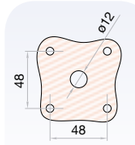
Dimensions (mm)

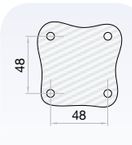


Frontal panel mechanization with 2 screws



Frontal panel mechanization with 4 screws





T series	Chambers	1□	+□	1□	+□
		L1		L2	
T16 T25	min	97,1	+14,2	135,1	+14,2
	max			297,1	
T32 T40	min	100,5	+17,5	138,5	+17,5
	max			300,5	

L2
Specify length when ordering

›› For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Door mounting switch

1P up to 12P

Size 2

A 50|63|80|100|125|175

* Except T175



T

Technical information

consult consult consult

According to IEC / EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith			A	63	80	80	125	125	200
Rated insulation voltage	Ui			V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp			kV	8	8	8	8	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	63	80	80	125	125	200
		Ue 415V	AC22A	A	63	80	80	115	115	200
		Ue 690V	AC21A	A	63	80	80	115	115	175
		Ue 690V	AC22A	A	63	63	63	100	100	160
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	18,5	22	22	30	30	55
		3x240V	AC3	kW	15	18,5	18,5	30	30	37
		3x240V	AC4	kW	5,5	7,5	7,5	11	11	15
		1x240V	AC3	kW	7,5	11	11	15	15	18,5
		1x240V	AC4	kW	3	3	3	4	4	5,5
		3x415V	AC23A	kW	30	37	37	45	45	90
		3x415V	AC3	kW	22	30	30	37	37	75
		3x415V	AC4	kW	11	11	11	15	15	18,5
		1x400V	AC3	kW	15	18,5	18,5	18,5	18,5	20
		1x400V	AC4	kW	4	5,5	5,5	7,5	7,5	11
		3x500V	AC23A	kW	30	37	37	55	55	110
		3x500V	AC3	kW	22	30	30	45	45	75
		3x500V	AC4	kW	11	11	11	15	15	18,5
		3x690V	AC23A	kW	37	45	45	55	55	75
		3x690V	AC3	kW	37	45	45	45	45	55
		3x690V	AC4	kW	11	11	11	15	15	18,5
Rated conditional short-circuit current				kA	15	15	15	15	15	15*(2)
Rated maximum current	gL-gG			A	80	80	80	125	125	160
Rated breaking capacity	400V; cos φ=0,45			A	504	504	504	640	640	1600
Rated short-time withstand current (1 sec)				A	1600	1600	1600	2500	2500	3500
Mechanical durability (thousand of operations)					1000	1000	1000	1000	1000	1000
Rigid copper conductor				mm²	16/25*(1)	16/25*(1)	16/25*(1)	35/50*(1)	35/50*(1)	95
Flexible copper conductor				mm²	10/16*(1)	10/16*(1)	10/16*(1)	16/35*(1)	16/35*(1)	95
According to UL508 - CAN / CSA C22.2 Nº 14					**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith			A	63	63	63	100	100	Certification in progress
General use rating				Vac	600	600	600	600	600	
AC rated operational power		3x240V		HP	20	20	20	30	30	
		3x480V		HP	40	40	40	50	50	
		3x600V		HP	40	40	40	50	50	

*(1) With terminals for connection

*(2) Mounting without connection terminals or terminals + phase barriers DT-90025

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp

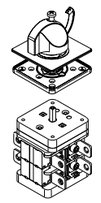
T-00050
T-00063
T-00080
T-00100
T-00125
T-00175

Diagram

Poles	Posit. 0	Posit. 1		Chambers
1	X	0	0010	1
2	X	0	0011	
3	X	0	0012	2
4	X	0	0013	
5	X	0	10/5	3
6	X	0	10/6	
7	X	0	10/7	4
8	X	0	10/8	
9	X	0	10/9	5
10	X	0	1010	
11	X	0	1011	6
12	X	0	1012	

Type

Model or fixing



E

Plate and handle



1N1



1RD Arrow handle

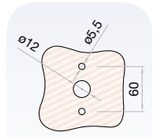


7N0

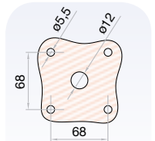


7R0 Padlockable handle

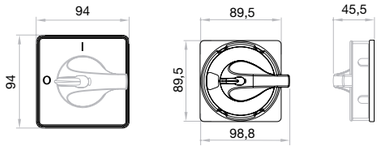
Frontal fixing with 2 screws

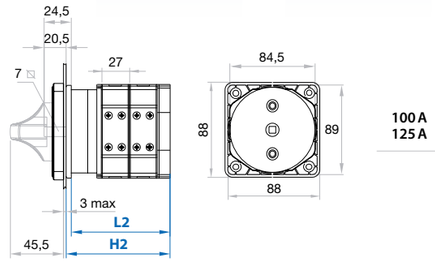


Frontal fixing with 4 screws

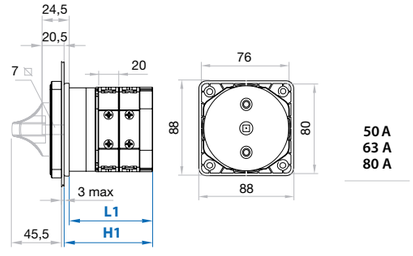


Dimensions (mm)

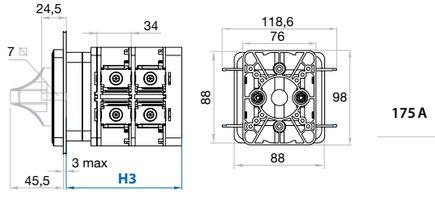




100 A
125 A



50 A
63 A
80 A



175 A

T series	Chambers	1□	2□	3□	4□	5□	6□
T50 T63 T80	L1	58,5	78,5	98,5	118,5	138,5	158,5
	H1	62,5	82,5	102,5	122,5	142,5	162,5

T series	Chambers	1□	2□	3□	4□	5□	6□
T100 T125	L2	67	94	121	148	175	202
	H2	71	98	125	152	179	206

T series	Chambers	1□	2□	3□	4□	5□	6□
T175	H3	80,8	114,8	148,8	182,8	216,8	250,8

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Base mounting switch with clutch device 1P up to 12P

Size 2

A 50|63|80|100|125|175

* Except T175



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					T50	T63	T80	T100	T125	T175
Rated thermal current	Ith			A	63	80	80	125	125	200
Rated insulation voltage	Ui			V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp			kV	8	8	8	8	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	63	80	80	125	125	200
		Ue 415V	AC22A	A	63	80	80	115	115	200
		Ue 690V	AC21A	A	63	80	80	115	115	175
		Ue 690V	AC22A	A	63	63	63	100	100	160
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	18,5	22	22	30	30	55
		3x240V	AC3	kW	15	18,5	18,5	30	30	37
		3x240V	AC4	kW	5,5	7,5	7,5	11	11	15
		1x240V	AC3	kW	7,5	11	11	15	15	18,5
		1x240V	AC4	kW	3	3	3	4	4	5,5
		3x415V	AC23A	kW	30	37	37	45	45	90
		3x415V	AC3	kW	22	30	30	37	37	75
		3x415V	AC4	kW	11	11	11	15	15	18,5
		1x400V	AC3	kW	15	18,5	18,5	18,5	18,5	20
		1x400V	AC4	kW	4	5,5	5,5	7,5	7,5	11
		3x500V	AC23A	kW	30	37	37	55	55	110
		3x500V	AC3	kW	22	30	30	45	45	75
		3x500V	AC4	kW	11	11	11	15	15	18,5
		3x690V	AC23A	kW	37	45	45	55	55	75
		3x690V	AC3	kW	37	45	45	45	45	55
		3x690V	AC4	kW	11	11	11	15	15	18,5
Rated conditional short-circuit current				kA	15	15	15	15	15	15*(2)
Rated maximum current	gL-gG			A	80	80	80	125	125	160
Rated breaking capacity	400V; cos φ=0,45			A	504	504	504	640	640	1600
Rated short-time withstand current (1 sec)				A	1600	1600	1600	2500	2500	3500
Mechanical durability (thousand of operations)					1000	1000	1000	1000	1000	1000
Rigid copper conductor				mm^2	16/25*(1)	16/25*(1)	16/25*(1)	35/50*(1)	35/50*(1)	95
Flexible copper conductor				mm^2	10/16*(1)	10/16*(1)	10/16*(1)	16/35*(1)	16/35*(1)	95
According to UL508 - CAN / CSA C22.2 Nº 14					**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith			A	63	63	63	100	100	Certification in progress
General use rating				Vac	600	600	600	600	600	
AC rated operational power		3x240V		HP	20	20	20	30	30	
		3x480V		HP	40	40	40	50	50	
		3x600V		HP	40	40	40	50	50	

*(1) With terminals for connection

*(2) Mounting without connection terminals or terminals + phase barriers DT-90025

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

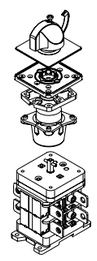
T-00050
T-00063
T-00080
T-00100
T-00125
T-00175

Diagram

Poles		Posit. 0	Posit. 1		Chambers
1		X		0001 0	1
2		X		0001 1	
3		X		0001 2	2
4		X		0001 3	
5		X		0101 5	3
6		X		0101 6	
7		X		0101 7	4
8		X		0101 8	
9		X		0101 9	5
10		X		0101 0	
11		X		0101 1	6
12		X		0101 2	

Type

Model or fixing



F

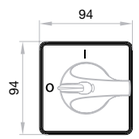
Plate and handle

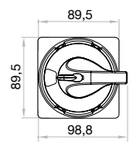


1N1 1RD Arrow handle

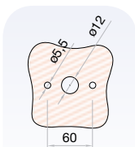
7N0 7RO Padlockable handle

Dimensions (mm)

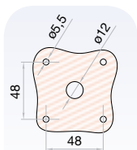


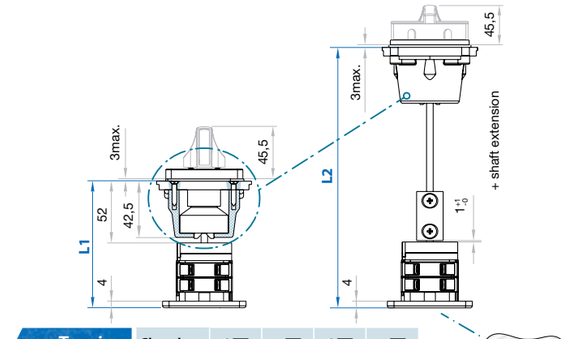


Frontal panel mechanization with 2 screws



Frontal panel mechanization with 4 screws

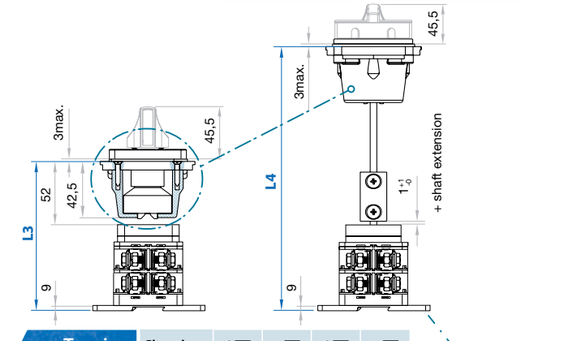




T series	Chambers	1□	+□	1□	+□
		L1		L2	
T50 T63 T80	min	114,5	20	152,5	20
	max			314,5	
T100 T125	min	123	27	161	27
	max			323	

L2

Specify length when ordering



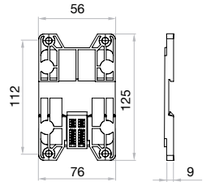
T series	Chambers	1□	+□	1□	+□
		L3		L4	
T175	min	141,8	34	179,8	34
	max			341,8	

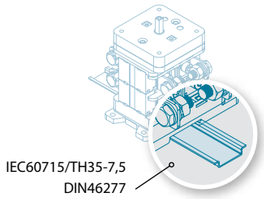
L4

Specify length when ordering

DIN rail support

Code DT-90421 (1 unit)





DIN rail or 4 screws included in the D or F fixing T175 types

The maximum number of chambers advisable is 3, for further conditions please consult

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Door mounting switch

1P up to 12P

Size 3

A 200|250|315



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					T200	T250	T315
Rated thermal current	Ith			A	200	250	315
Rated insulation voltage	Ui			V	690	690	690
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	200	250	315
		Ue 415V	AC22A	A	200	250	315
		Ue 690V	AC21A	A	200	220	250
		Ue 690V	AC22A	A	200	200	200
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	55	67	75
		3x240V	AC3	kW	45	54	61
		3x240V	AC4	kW	15	18	20
		1x240V	AC3	kW	22	22	22
		1x240V	AC4	kW	7,5	9	10
		3x415V	AC23A	kW	90	115	130
		3x415V	AC3	kW	75	95	108
		3x415V	AC4	kW	22	28	31
		1x400V	AC3	kW	37	47	53
		1x400V	AC4	kW	11	14	16
		3x500V	AC23A	kW	110	130	145
		3x500V	AC3	kW	90	106	118
		3x500V	AC4	kW	22	26	29
		3x690V	AC23A	kW	132	155	175
		3x690V	AC3	kW	110	129	145
		3x690V	AC4	kW	22	25	29
Rated conditional short-circuit current				kA	25	15	15
Rated maximum current	gL-gG			A	200	250	315
Rated breaking capacity	400V; cos φ=0,45			A	1450	2000	2240
Rated short-time withstand current (1 sec)				A	4400	4400	4400
Mechanical durability (thousand of operations)					1000	1000	1000
Rigid copper conductor				mm^2	95	120	185
Flexible copper conductor				mm^2	95	120	185
According to UL508 - CAN / CSA C22.2 Nº 14					**T200**	**T250**	**T315**
Rated thermal current	Ith			A	200	200	200
General use rating				Vac	600	600	600
AC rated operational power		3x240V		HP	60	60	60
		3x480V		HP	75	75	75
		3x600V		HP	60	60	60

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp

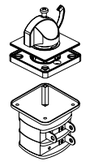
T-0020 0
T-0025 0
T-0031 5

Diagram

Poles	Posit. 0	Posit. 1	Chambers
1	X	0 0 0 1 0	1
2	X	0 0 0 1 1	
3	X	0 0 0 1 2	2
4	X	0 0 0 1 3	
5	X	0 1 0 / 5	3
6	X	0 1 0 / 6	
7	X	0 1 0 / 7	4
8	X	0 1 0 / 8	
9	X	0 1 0 / 9	5
10	X	0 1 0 1 0	
11	X	0 1 0 1 1	6
12	X	0 1 0 1 2	

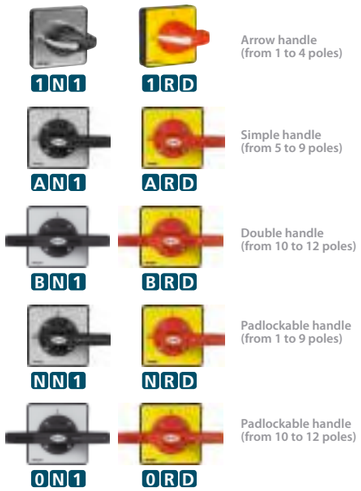
Type

Model or fixing

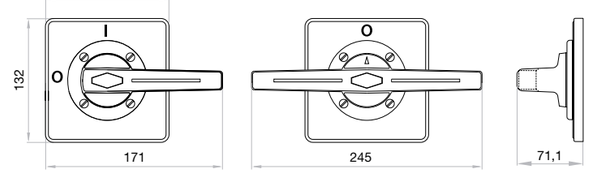


E

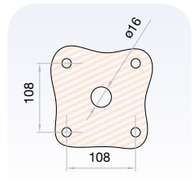
Plate and handle

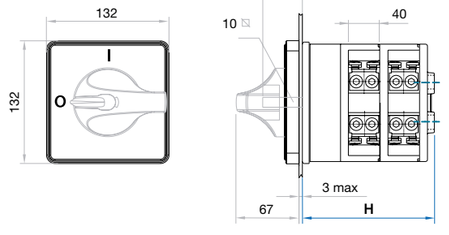


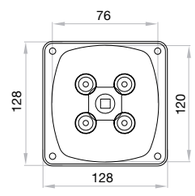
Dimensions (mm)

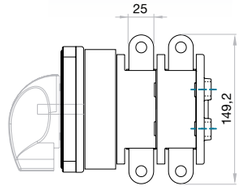


Frontal fixing with 4 screws



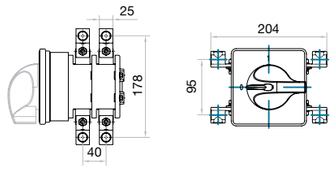


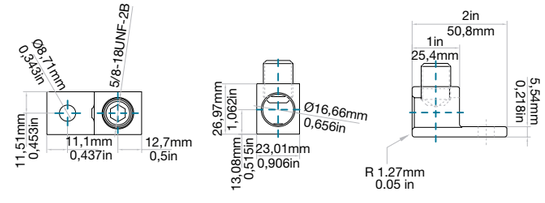




Terminal extensions according to UL.

UL Terminal Lug





T series	Chambers	1□	2□	3□	4□	5□	6□
T200 T250 T315	H	95	135	175	215	255	295

Wire size	Wires per lug	Wire type	kit reference
150 mm^2 / 300 kcmil	1	Cu/Al	DS-TL01 (2 pieces)

Note: The hardware needed to complete the wiring is supplied as standard.

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Base mounting switch with clutch device

1P up to 12P

Size 3

A 200|250|315



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				T200	T250	T315
Rated thermal current	Ith		A	200	250	315
Rated insulation voltage	Ui		V	690	690	690
Rated impulse withstand voltage	Uimp		kV	8	8	8
AC rated operational current	Ie	Ue 415V AC21A	A	200	250	315
		Ue 415V AC22A	A	200	250	315
		Ue 690V AC21A	A	200	220	250
		Ue 690V AC22A	A	200	200	200
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	55	67	75
		3x240V AC3	kW	45	54	61
		3x240V AC4	kW	15	18	20
		1x240V AC3	kW	22	22	22
		1x240V AC4	kW	7,5	9	10
		3x415V AC23A	kW	90	115	130
		3x415V AC3	kW	75	95	108
		3x415V AC4	kW	22	28	31
		1x400V AC3	kW	37	47	53
		1x400V AC4	kW	11	14	16
		3x500V AC23A	kW	110	130	145
		3x500V AC3	kW	90	106	118
		3x500V AC4	kW	22	26	29
		3x690V AC23A	kW	132	155	175
		3x690V AC3	kW	110	129	145
		3x690V AC4	kW	22	25	29
Rated conditional short-circuit current			kA	25	15	15
Rated maximum current	gL-gG		A	200	250	315
Rated breaking capacity	400V; cos φ=0,45		A	1450	2000	2240
Rated short-time withstand current (1 sec)			A	4400	4400	4400
Mechanical durability (thousand of operations)				1000	1000	1000
Rigid copper conductor			mm^2	95	120	185
Flexible copper conductor			mm^2	95	120	185
According to UL508 - CAN / CSA C22.2 Nº 14				**T200**	**T250**	**T315**
Rated thermal current	Ith		A	200	200	200
General use rating			Vac	600	600	600
AC rated operational power		3x240V	HP	60	60	60
		3x480V	HP	75	75	75
		3x600V	HP	60	60	60

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp

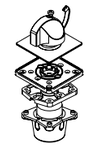
T-00200
T-00250
T-00315

Diagram

Poles	Posit. 0	Posit. 1	Chambers
1	X	000 10	1
2	X	000 11	
3	X	000 12	2
4	X	000 13	
5	X	010 / 5	3
6	X	010 / 6	
7	X	010 / 7	4
8	X	010 / 8	
9	X	010 / 9	5
10	X	010 10	
11	X	010 11	6
12	X	010 12	

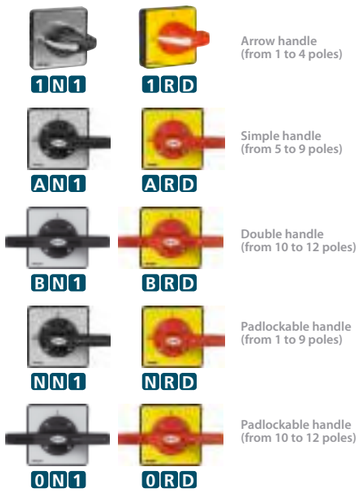
Type

Model or fixing

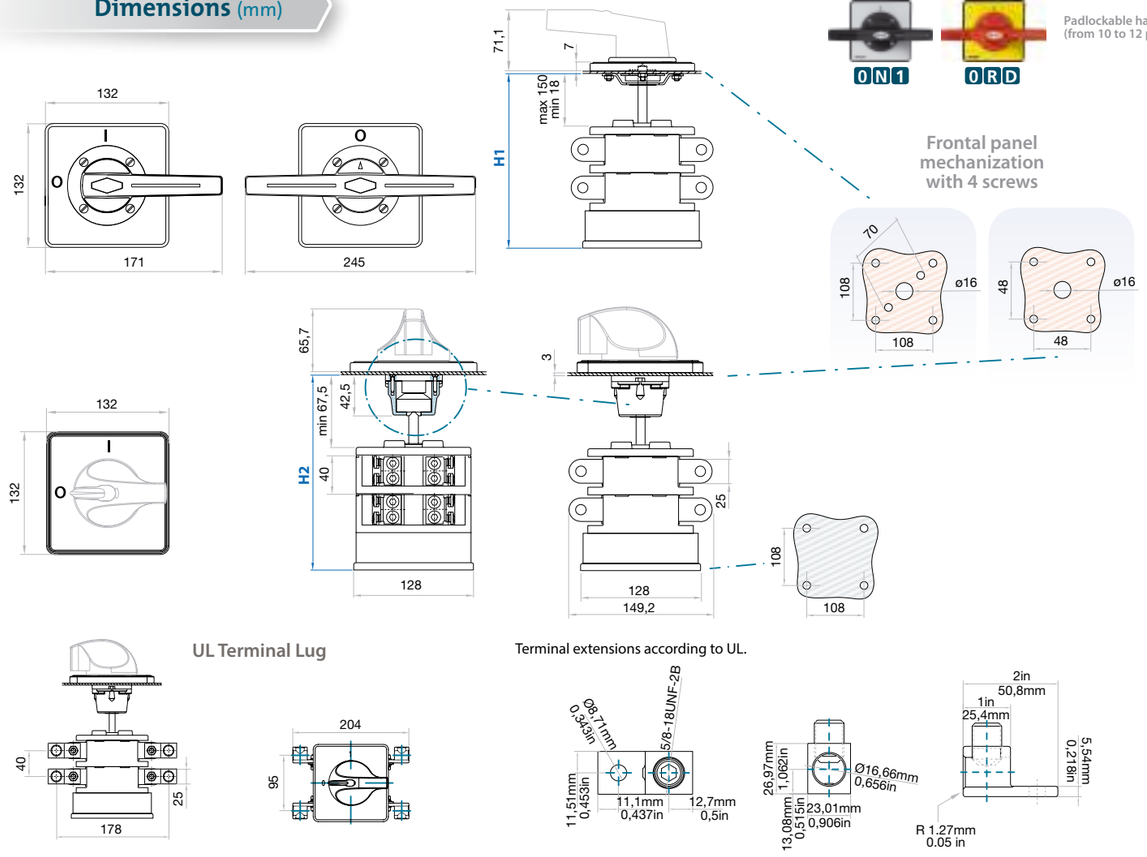


F

Plate and handle



Dimensions (mm)



T series	Chambers	1□	2□	3□	4□	5□	6□
T200 T250 T315	H1	139,3	179,3	219,3	259,3	299,3	339,3
	H2	162,5	202,5	242,5	282,5	322,5	362,5

Wire size	Wires per lug	Wire type	kit reference
150 mm^2 / 300 kcmil	1	Cu/Al	DS-TL01 (2 pieces)

Note: The hardware needed to complete the wiring is supplied as standard.

H1-H2
Specify length when ordering

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series TP|T|TB|TF

TP | T | TB | TF
Door mounting changeover

1P up to 4P

Size 0

A 10|12|16|20|25|32



Technical information

consult | consult | consult | consult

According to IEC / EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				TP10	T12	T20	TB20	TB25	TB32	TF12	TF16	TF25
Rated thermal current	Ith		A	12	16	25	20	25	32	20	25	32
Rated insulation voltage	Ui		V	500	500	500	500	500	500	690	690	690
Rated impulse withstand voltage	Uimp		kV	4	6	6	6	6	6	6	6	6
AC rated operational current	Ie	Ue 415V AC21A	A	12	16	25	20	25	32	20	25	32
		Ue 415V AC22A	A	12	16	25	20	25	32	20	25	32
		Ue 415V AC23A	A	10	-	-	20	25	32	-	-	-
		Ue 500V AC21A	A	-	16	20	20	25	32	-	-	-
		Ue 500V AC22A	A	-	16	20	20	25	32	-	-	-
		Ue 500V AC23A	A	-	-	-	16	20	25	-	-	-
		Ue 690V AC21A	A	-	-	-	-	-	-	16	25	32
		Ue 690V AC22A	A	-	-	-	-	-	-	16	25	25
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	3	4	4	5,4	6,7	8,6	4	5,5	7,5
		3x240V AC3	kW	2,2	3	4	3,7	4,6	5,9	4	5,5	5,5
		3x240V AC4	kW	-	1,1	1,5	2,9	3,7	4,6	1,5	2,2	3
		1x240V AC3	kW	-	1,5	2,2	2,1	2,7	4	2,2	3	4
		1x240V AC4	kW	-	0,37	0,55	1	1,25	1,5	0,55	0,75	1,1
		3x415V AC23A	kW	4,6	5,5	7,5	9,3	11,7	15	7,5	11	11
		3x415V AC3	kW	4	4	5,5	6,4	8	10,3	5,5	7,5	7,5
		3x415V AC4	kW	-	2,2	3	3,1	3,8	5,5	3	4	5,5
		1x400V AC3	kW	-	2,2	3	3,6	4,5	5,7	3	4	5,5
		1x400V AC4	kW	-	0,75	1,1	1,7	2,2	3	1,1	1,5	1,5
		3x500V AC23A	kW	-	5,5	7,5	9	11	14	7,5	11	11
		3x500V AC3	kW	-	4	7,5	7,8	9,7	12,5	7,5	7,5	11
		3x500V AC4	kW	-	2,2	3	3,3	4,7	5,5	3	4	5,5
		3x690V AC23A	kW	-	-	-	-	-	-	7,5	11	15
		3x690V AC3	kW	-	-	-	-	-	-	5,5	7,5	11
		3x690V AC4	kW	-	-	-	-	-	-	3	4	5,5
Rated conditional short-circuit current			kA	5	10	10	5	5	5	5	5	5
Rated maximum current	gL-gG		A	16	25	25	35	35	35	20	25	32
Rated breaking capacity	400V; cos φ=0,45		A	80	80	100	160	200	256	100	160	200
Rated short-time withstand current (1 sec)			A	100	240	400	240	400	500	350	400	500
Mechanical durability (thousand of operations)				2000	1000	1000	1000	1000	1000	1000	1000	1000
Rigid copper conductor			mm²	2x4	2x4	2x4	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductor			mm²	2x2,5	2x2,5	2x2,5	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6
According to UL508 - CAN / CSA C22.2 Nº 14					**T12**	**T20**				**TF12**	**TF16**	**TF25**
Rated thermal current	Ith		A		12	20	-	-	-	16	20	25
General use rating			Vac		300	300	-	-	-	600	600	600
AC rated operational power		3x240V	HP		2	5	-	-	-	2	5	7,5
		3x480V	HP		-	-	-	-	-	5	10	12
		3x600V	HP		-	-	-	-	-	5	10	15

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series TP|T|TB|TF

Code: 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

- TP-0010
- T-00012
- T-00020
- TB-0020
- TB-0025
- TB-0032
- TF-0012
- TF-0016
- TF-0025

Diagram

Posit. 1 0 2 | Chambers | Poles

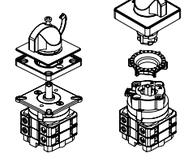
Poles	Chambers
1	00400
2	00401
3	00402
4	00403

Posit. 1 2 | Chambers | Poles

Poles	Chambers
1	00500
2	00501
3	00502
4	00503

Type

Model or fixing



- E — with screws
- C — Ø 22

Plate and handle



- 1N1 — Arrow handle
- 6N1 — Padlockable handle "mini" (E type only)
- CNO — Padlockable handle open view

For red/yellow handle, please consult

Dimensions (mm)

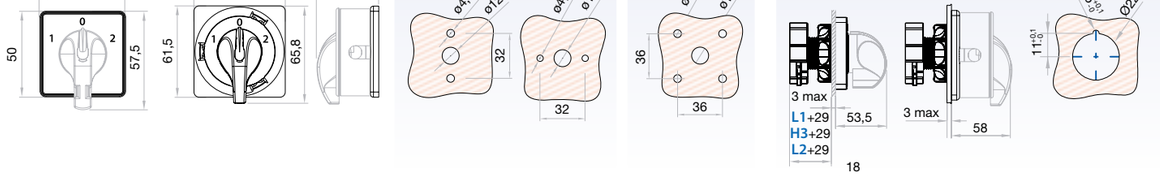
E

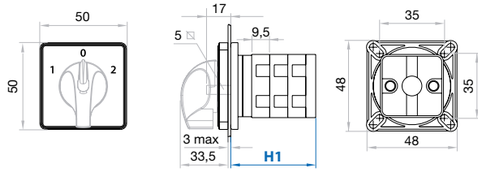
Frontal fixing with 2 screws — TB | T - TF

Frontal fixing with 4 screws — T - TB - TF - TP

C

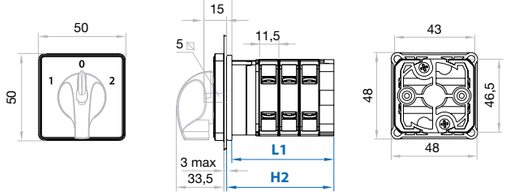
Frontal fixing Ø22 — T - TB - TF





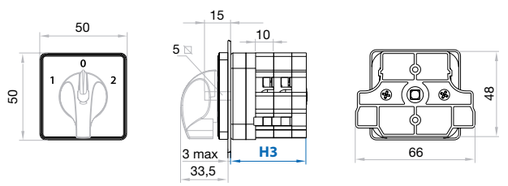
TP series

Chambers	1	2	3	4
H1	26,8	36,3	45,8	55,3



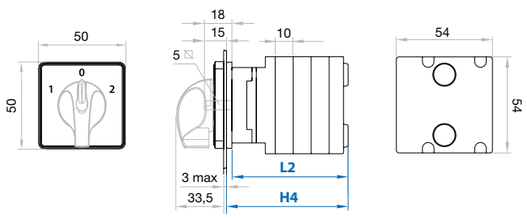
T series

Chambers	1	2	3	4
L1	34,5	46	57,5	69
H2	37,5	49	60,5	72



TB series

Chambers	1	2	3	4
H3	31,5	41,5	51,5	61,5



TF series

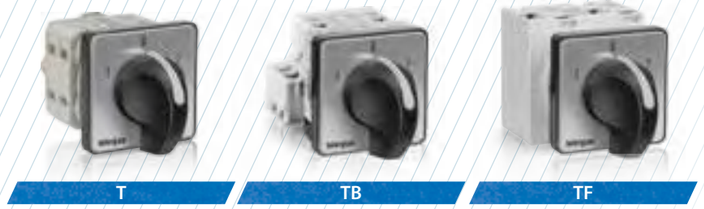
Chambers	1	2	3	4
L2	45	55	65	75
H4	48	58	68	78

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T|TB|TF

T | TB | TF
Base mounting changeover with clutch device 1P up to 4P

Size 0
A 12|16|20|25|32



Technical information

consult | consult | consult | consult

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T12**	**T20**	**TB20**	**TB25**	**TB32**	**TF12**	**TF16**	**TF25**
Rated thermal current	Ith		A	16	25	20	25	32	20	25	32
Rated insulation voltage	Ui		V	500	500	500	500	500	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	6	6	6
AC rated operational current	Ie	Ue 415V AC21A	A	16	25	20	25	32	20	25	32
		Ue 415V AC22A	A	16	25	20	25	32	20	25	32
		Ue 415V AC23A	A	-	-	20	25	32	-	-	-
		Ue 500V AC21A	A	16	20	20	25	32	-	-	-
		Ue 500V AC22A	A	16	20	20	25	32	-	-	-
		Ue 500V AC23A	A	-	-	16	20	25	-	-	-
		Ue 690V AC21A	A	-	-	-	-	-	16	25	32
		Ue 690V AC22A	A	-	-	-	-	-	16	25	25
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	4	4	5,4	6,7	8,6	4	5,5	7,5
		3x240V AC3	kW	3	4	3,7	4,6	5,9	4	5,5	5,5
		3x240V AC4	kW	1,1	1,5	2,9	3,7	4,6	1,5	2,2	3
		1x240V AC3	kW	1,5	2,2	2,1	2,7	4	2,2	3	4
		1x240V AC4	kW	0,37	0,55	1	1,25	1,5	0,55	0,75	1,1
		3x415V AC23A	kW	5,5	7,5	9,3	11,7	15	7,5	11	11
		3x415V AC3	kW	4	5,5	6,4	8	10,3	5,5	7,5	7,5
		3x415V AC4	kW	2,2	3	3,1	3,8	5,5	3	4	5,5
		1x400V AC3	kW	2,2	3	3,6	4,5	5,7	3	4	5,5
		1x400V AC4	kW	0,75	1,1	1,7	2,2	3	1,1	1,5	1,5
		3x500V AC23A	kW	5,5	7,5	9	11	14	7,5	11	11
		3x500V AC3	kW	4	7,5	7,8	9,7	12,5	7,5	7,5	11
		3x500V AC4	kW	2,2	3	3,3	4,7	5,5	3	4	5,5
		3x690V AC23A	kW	-	-	-	-	-	7,5	11	15
		3x690V AC3	kW	-	-	-	-	-	5,5	7,5	11
		3x690V AC4	kW	-	-	-	-	-	3	4	5,5
Rated conditional short-circuit current			kA	10	10	5	5	5	5	5	5
Rated maximum current	gL-gG		A	25	25	35	35	35	20	25	32
Rated breaking capacity	400V; cos φ=0,45		A	80	100	160	200	256	100	160	200
Rated short-time withstand current (1 sec)			A	240	400	240	400	500	350	400	500
Mechanical durability (thousand of operations)				1000	1000	1000	1000	1000	1000	1000	1000
Rigid copper conductor			mm²	2x4	2x4	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductor			mm²	2x2,5	2x2,5	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6
According to UL508 - CAN / CSA C22.2 Nº 14				**T12**	**T20**				**TF12**	**TF16**	**TF25**
Rated thermal current	Ith		A	12	20	-	-	-	16	20	25
General use rating			Vac	300	300	-	-	-	600	600	600
AC rated operational power		3x240V	HP	2	5	-	-	-	2	5	7,5
		3x480V	HP	-	-	-	-	-	5	10	12
		3x600V	HP	-	-	-	-	-	5	10	15

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

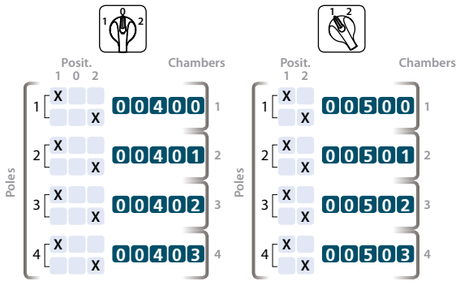
series T|TB|TF

Code 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

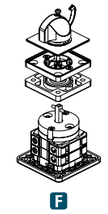
TP-0010	
T-0001 2	
T-0002 0	
TB-0020	
TB-0025	
TB-0032	
TF-0012	
TF-0016	
TF-0025	

Diagram



Type

Model or fixing



F

Plate and handle



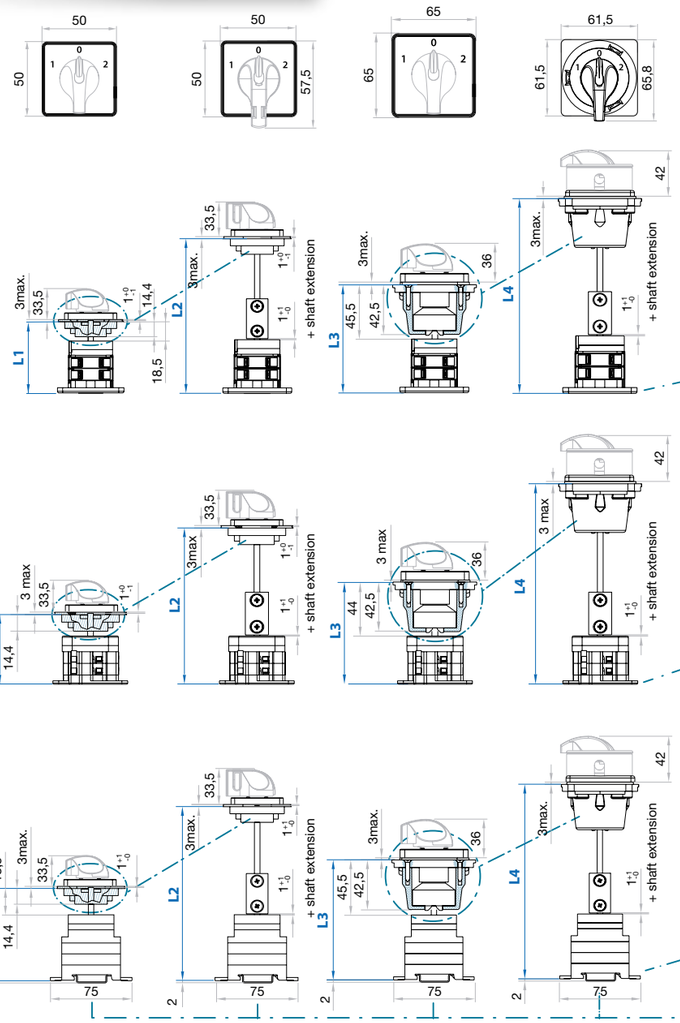
1N1 Arrow handle

6N1 Padlockable handle "mini"

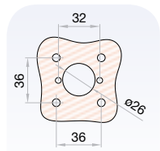
CNO Padlockable handle open view

For red/yellow handle, please consult

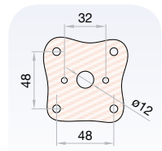
Dimensions (mm)



Frontal panel mechanization with 2 or 4 screws
L1 - L2



Frontal panel mechanization with 2 or 4 screws
L3 - L4



T series

Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	56	+11,5	94	+11,5	83	+11,5	121	+11,5
max			256				283	

L2 - L4
Specify length when ordering

TB series

Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	46	+10	84	+10	75,5	+10	113	+10
max			246				275,5	

L2 - L4
Specify length when ordering

TF series

Chambers	1□	+□	1□	+□	1□	+□	1□	+□
	L1		L2		L3		L4	
min	65,5	+10	103,5	+10	92,5	+10	130,5	+10
max			265,5				292,5	

L2 - L4
Specify length when ordering

IEC60715/TH35-7,5
DIN46277

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Door mounting changeover

1P up to 4P

Size 1
A 16|25|32|40



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				T16	T25	T32	T40
Rated thermal current	Ith		A	25	32	40	50
Rated insulation voltage	Ui		V	690	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	25	32	40	50
		Ue 415V	AC22A	A	25	32	40	50
		Ue 690V	AC21A	A	25	32	40	50
		Ue 690V	AC22A	A	25	25	40	40
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	5,5	7,5	11	15
		3x240V	AC3	kW	5,5	5,5	7,5	11
		3x240V	AC4	kW	2,2	3	4	4
		1x240V	AC3	kW	3	4	5,5	5,5
		1x240V	AC4	kW	0,75	1,1	1,5	2,2
		3x415V	AC23A	kW	11	11	15	18,5
		3x415V	AC3	kW	7,5	7,5	11	15
		3x415V	AC4	kW	4	5,5	5,5	7,5
		1x400V	AC3	kW	4	5,5	7,5	7,5
		1x400V	AC4	kW	1,5	1,5	2,2	3
		3x500V	AC23A	kW	11	11	15	18,5
		3x500V	AC3	kW	7,5	11	11	15
		3x500V	AC4	kW	4	5,5	5,5	7,5
		3x690V	AC23A	kW	11	15	18,5	30
		3x690V	AC3	kW	7,5	11	15	22
		3x690V	AC4	kW	4	5,5	5,5	7,5
Rated conditional short-circuit current				kA	10	10	10	10
Rated maximum current	gL-gG			A	32	32	50	50
Rated breaking capacity	400V; cos φ=0,45			A	160	200	256	320
Rated short-time withstand current (1 sec)				A	500	650	725	800
Mechanical durability (thousand of operations)					1000	1000	1000	1000
Rigid copper conductor				mm²	2x6	2x6	2x10	2x10
Flexible copper conductor				mm²	2x4	2x4	2x6	2x6
According to UL508 - CAN / CSA C22.2 Nº 14					**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith			A	16	25	32	40
General use rating				Vac	600	600	600	600
AC rated operational power		3x240V		HP	5,3	7,5	10	15
		3x480V		HP	15	15	20	25
		3x600V		HP	20	20	25	30

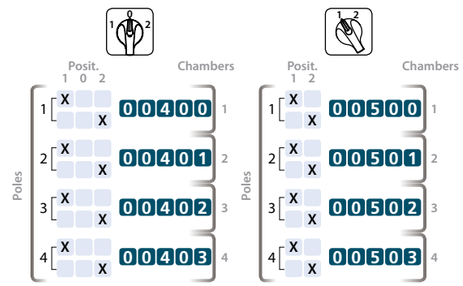
Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

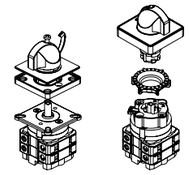
Series | Amp
T-00016
T-00025
T-00032
T-00040

Diagram



Type

Model or fixing



E with screws

C Ø22

Plate and handle



1N1 Arrow handle

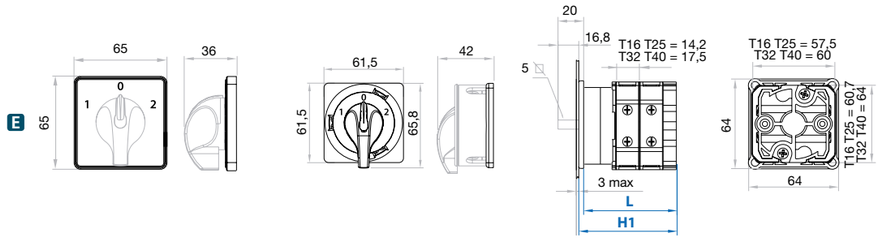


CN0 Padlockable handle open view

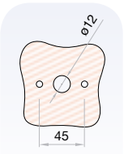
For red/yellow handle, please consult

Dimensions (mm)

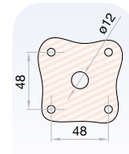
E



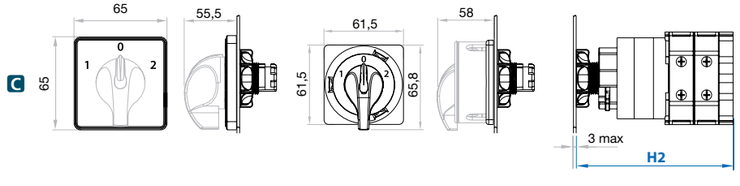
Frontal fixing with 2 screws



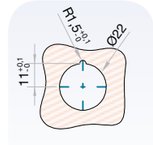
Frontal fixing with 4 screws



C



Frontal fixing Ø22



T series	Chambers	1□	2□	3□	4□
T16 T25	L	46,4	60,6	74,8	89
	H1	49,6	63,8	78	92,2
	H2	75,5	89,5	103,7	117,9
T32 T40	L	49,8	67,3	84,8	102,3
	H1	53	70,5	88	105,5
	H2	78,8	96,3	113,8	131,3

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Base mounting changeover with clutch device 1P up to 4P

Size 1
A 16|25|32|40



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	25	32	40	50
Rated insulation voltage	Ui		V	690	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	8	8
AC rated operational current	Ie	Ue 415V AC21A	A	25	32	40	50
		Ue 415V AC22A	A	25	32	40	50
		Ue 690V AC21A	A	25	32	40	50
		Ue 690V AC22A	A	25	25	40	40
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	5,5	7,5	11	15
		3x240V AC3	kW	5,5	5,5	7,5	11
		3x240V AC4	kW	2,2	3	4	4
		1x240V AC3	kW	3	4	5,5	5,5
		1x240V AC4	kW	0,75	1,1	1,5	2,2
		3x415V AC23A	kW	11	11	15	18,5
		3x415V AC3	kW	7,5	7,5	11	15
		3x415V AC4	kW	4	5,5	5,5	7,5
		1x400V AC3	kW	4	5,5	7,5	7,5
		1x400V AC4	kW	1,5	1,5	2,2	3
		3x500V AC23A	kW	11	11	15	18,5
		3x500V AC3	kW	7,5	11	11	15
		3x500V AC4	kW	4	5,5	5,5	7,5
		3x690V AC23A	kW	11	15	18,5	30
		3x690V AC3	kW	7,5	11	15	22
		3x690V AC4	kW	4	5,5	5,5	7,5
Rated conditional short-circuit current			kA	10	10	10	10
Rated maximum current	gL-gG		A	32	32	50	50
Rated breaking capacity	400V; cos φ=0,45		A	160	200	256	320
Rated short-time withstand current (1 sec)			A	500	650	725	800
Mechanical durability (thousand of operations)				1000	1000	1000	1000
Rigid copper conductor			mm^2	2x6	2x6	2x10	2x10
Flexible copper conductor			mm^2	2x4	2x4	2x6	2x6
According to UL508 - CAN / CSA C22.2 Nº 14				**T16**	**T25**	**T32**	**T40**
Rated thermal current	Ith		A	16	25	32	40
General use rating			Vac	600	600	600	600
AC rated operational power		3x240V	HP	5,3	7,5	10	15
		3x480V	HP	15	15	20	25
		3x600V	HP	20	20	25	30

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp
T-00016
T-00025
T-00032
T-00040

Diagram

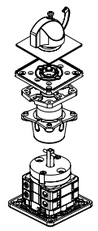
Posit. 1 0 2 | Chambers | Poles

Poles	Posit. 1 0 2	Chambers
1	X / X	00400 1
2	X / X	00401 2
3	X / X	00402 3
4	X / X	00403 4

Posit. 1 2 | Chambers | Poles

Poles	Posit. 1 2	Chambers
1	X / X	00500 1
2	X / X	00501 2
3	X / X	00502 3
4	X / X	00503 4

Type
Model or fixing



F

Plate and handle



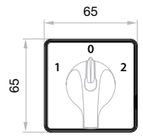
1N1 Arrow handle

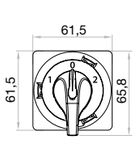


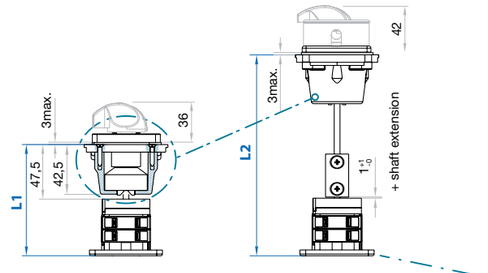
CN0 Padlockable handle open view

For red/yellow handle, please consult

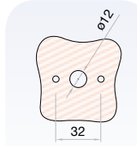
Dimensions (mm)



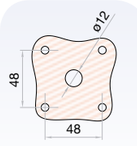


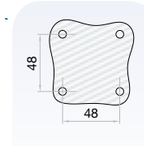


Frontal panel mechanization with 2 screws



Frontal panel mechanization with 4 screws





T series	Chambers	1□	+□	1□	+□
		L1		L2	
T16 T25	min	97,1	+14,2	135,1	+14,2
	max			297,1	
T32 T40	min	100,5	+17,5	138,5	+17,5
	max			300,5	

L2
Specify length when ordering

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

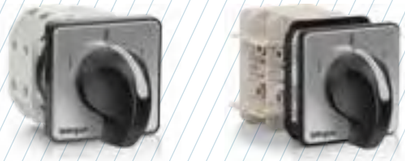
T
Door mounting changeover

1P up to 4P

Size 2

A 50|63|80|100|125|175

* Except T175



T

Technical information

CE · cULus · EAC · BUREAU VERITAS consult · LR APPROVED consult · CCC consult

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith			A	63	80	80	125	125	200
Rated insulation voltage	Ui			V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp			kV	8	8	8	8	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	63	80	80	125	125	200
		Ue 415V	AC22A	A	63	80	80	115	115	200
		Ue 690V	AC21A	A	63	80	80	115	115	175
		Ue 690V	AC22A	A	63	63	63	100	100	160
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	18,5	22	22	30	30	55
		3x240V	AC3	kW	15	18,5	18,5	30	30	37
		3x240V	AC4	kW	5,5	7,5	7,5	11	11	15
		1x240V	AC3	kW	7,5	11	11	15	15	18,5
		1x240V	AC4	kW	3	3	3	4	4	5,5
		3x415V	AC23A	kW	30	37	37	45	45	90
		3x415V	AC3	kW	22	30	30	37	37	75
		3x415V	AC4	kW	11	11	11	15	15	18,5
		1x400V	AC3	kW	15	18,5	18,5	18,5	18,5	20
		1x400V	AC4	kW	4	5,5	5,5	7,5	7,5	11
		3x500V	AC23A	kW	30	37	37	55	55	110
		3x500V	AC3	kW	22	30	30	45	45	75
		3x500V	AC4	kW	11	11	11	15	15	18,5
		3x690V	AC23A	kW	37	45	45	55	55	75
		3x690V	AC3	kW	37	45	45	45	45	55
		3x690V	AC4	kW	11	11	11	15	15	18,5
Rated conditional short-circuit current				kA	15	15	15	15	15	15*(2)
Rated maximum current	gL-gG			A	80	80	80	125	125	160
Rated breaking capacity	400V; cos φ=0,45			A	504	504	504	640	640	1600
Rated short-time withstand current (1 sec)				A	1600	1600	1600	2500	2500	3500
Mechanical durability (thousand of operations)					1000	1000	1000	1000	1000	1000
Rigid copper conductor				mm²	16/25*(1)	16/25*(1)	16/25*(1)	35/50*(1)	35/50*(1)	95
Flexible copper conductor				mm²	10/16*(1)	10/16*(1)	10/16*(1)	16/35*(1)	16/35*(1)	95
According to UL508 - CAN / CSA C22.2 Nº 14					**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith			A	63	63	63	100	100	Certification in progress
General use rating				Vac	600	600	600	600	600	
AC rated operational power		3x240V		HP	20	20	20	30	30	
		3x480V		HP	40	40	40	50	50	
		3x600V		HP	40	40	40	50	50	

*(1) With terminals for connection

*(2) Mounting without connection terminals or terminals + phase barriers DT-90025

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code: 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

T-00050
T-00063
T-00080
T-00100
T-00125
T-00175

Diagram

Posit. 1 0 2 — Chambers — Poles

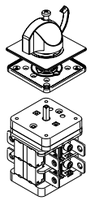
Poles	Chambers
1	00400
2	00401
3	00402
4	00403

Posit. 1 2 — Chambers — Poles

Poles	Chambers
1	00500
2	00501
3	00502
4	00503

Type

Model or fixing



E

Plate and handle



Arrow handle

1N1

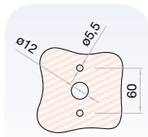


Padlockable handle open view

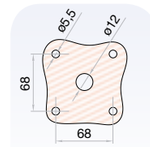
For red/yellow handle, please consult

CNO

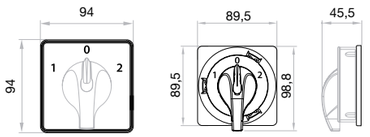
Frontal fixing with 2 screws

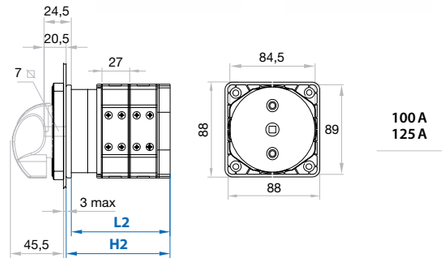


Frontal fixing with 4 screws



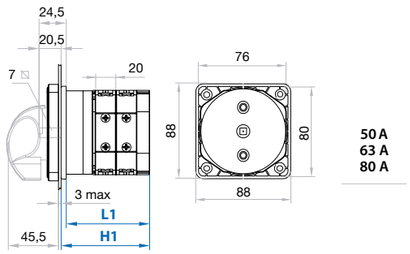
Dimensions (mm)





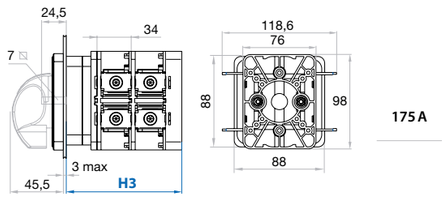
100 A
125 A

T series	Chambers	1□	2□	3□	4□
T100 T125	L2	67	94	121	148
	H2	71	98	125	152



50 A
63 A
80 A

T series	Chambers	1□	2□	3□	4□
T50 T63 T80	L1	58,5	78,5	98,5	118,5
	H1	62,5	82,5	102,5	122,5



175 A

T series	Chambers	1□	2□	3□	4□
T175	H3	80,8	114,8	148,8	182,8

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

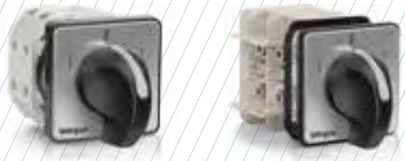
series T

T
Base mounting changeover with clutch device 1P up to 4P

Size 2

A 50|63|80|100|125|175

* Except T175



T

Technical information

consult consult consult

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith		A	63	80	80	125	125	200
Rated insulation voltage	Ui		V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp		kV	8	8	8	8	8	8
AC rated operational current	Ie	Ue 415V AC22A	A	63	80	80	125	125	200
		Ue 415V AC21A	A	63	80	80	115	115	200
		Ue 690V AC21A	A	63	80	80	115	115	175
		Ue 690V AC22A	A	63	63	63	100	100	160
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	18,5	22	22	30	30	55
		3x240V AC3	kW	15	18,5	18,5	30	30	37
		3x240V AC4	kW	5,5	7,5	7,5	11	11	15
		1x240V AC3	kW	7,5	11	11	15	15	18,5
		1x240V AC4	kW	3	3	3	4	4	5,5
		3x415V AC23A	kW	30	37	37	45	45	90
		3x415V AC3	kW	22	30	30	37	37	75
		3x415V AC4	kW	11	11	11	15	15	18,5
		1x400V AC3	kW	15	18,5	18,5	18,5	18,5	20
		1x400V AC4	kW	4	5,5	5,5	7,5	7,5	11
		3x500V AC23A	kW	30	37	37	55	55	110
		3x500V AC3	kW	22	30	30	45	45	75
		3x500V AC4	kW	11	11	11	15	15	18,5
		3x690V AC23A	kW	37	45	45	55	55	75
		3x690V AC3	kW	37	45	45	45	45	55
		3x690V AC4	kW	11	11	11	15	15	18,5
Rated conditional short-circuit current			kA	15	15	15	15	15	15*(2)
Rated maximum current	gL-gG		A	80	80	80	125	125	160
Rated breaking capacity	400V; cos φ=0,45		A	504	504	504	640	640	1600
Rated short-time withstand current (1 sec)			A	1600	1600	1600	2500	2500	3500
Mechanical durability (thousand of operations)				1000	1000	1000	1000	1000	1000
Rigid copper conductor			mm²	16/25*(1)	16/25*(1)	16/25*(1)	35/50*(1)	35/50*(1)	95
Flexible copper conductor			mm²	10/16*(1)	10/16*(1)	10/16*(1)	16/35*(1)	16/35*(1)	95
According to UL508 - CAN / CSA C22.2 Nº 14				**T50**	**T63**	**T80**	**T100**	**T125**	**T175**
Rated thermal current	Ith		A	63	63	63	100	100	
General use rating			Vac	600	600	600	600	600	
AC rated operational power		3x240V	HP	20	20	20	30	30	
		3x480V	HP	40	40	40	50	50	
		3x600V	HP	40	40	40	50	50	

Certification in progress

*(1) With terminals for connection

*(2) Mounting without connection terminals or terminals + phase barriers DT-90025

Normal service conditions:

Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.

Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

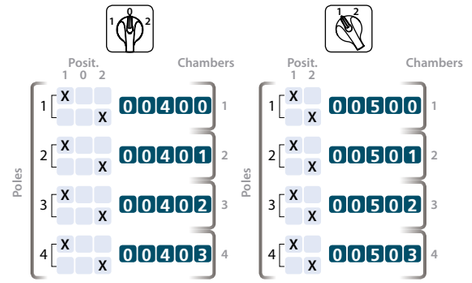
series T

Code 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

Series | Amp

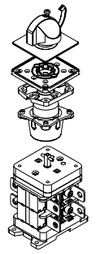
T-00050
T-00063
T-00080
T-00100
T-00125
T-00175

Diagram



Type

Model or fixing



F

Plate and handle



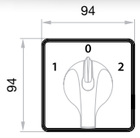
1N1 Arrow handle

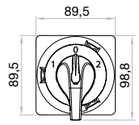


CN0 Padlockable handle open view

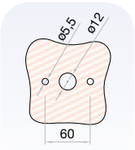
For red/yellow handle, please consult

Dimensions (mm)

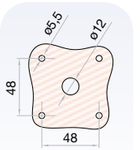


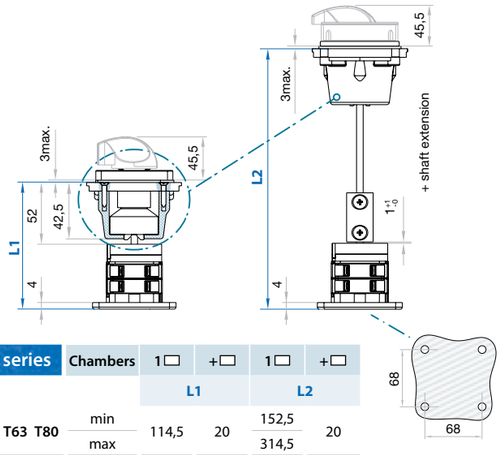


Frontal panel mechanization with 2 screws



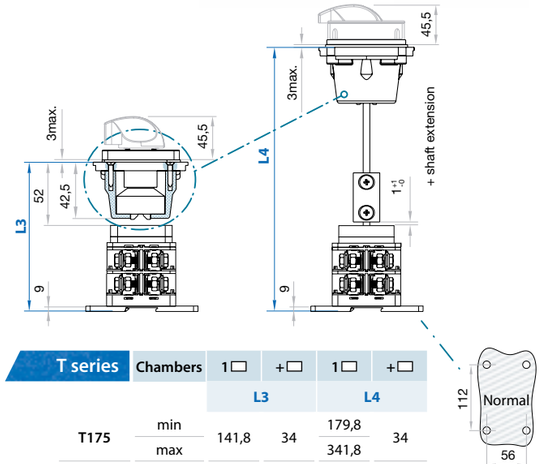
Frontal panel mechanization with 4 screws





T series	Chambers	1□	+□	1□	+□
		L1		L2	
T50 T63 T80	min	114,5	20	152,5	20
	max			314,5	
T100 T125	min	123	27	161	27
	max			323	

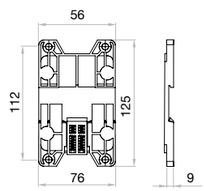
L2
Specify length when ordering

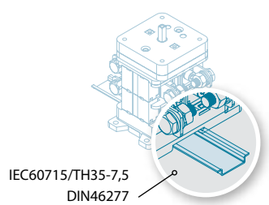


T series	Chambers	1□	+□	1□	+□
		L3		L4	
T175	min	141,8	34	179,8	34
	max			341,8	

L4
Specify length when ordering

DIN rail support
Code **DT-90421** (1 unit)





DIN rail or 4 screws included in the D or F fixing T175 types

The maximum number of chambers advisable is 3, for further conditions please consult

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

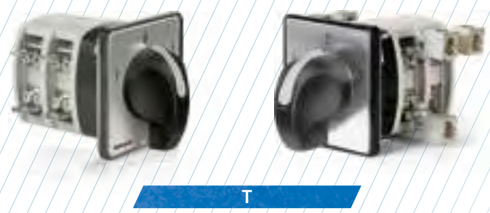
series T

T
Door mounting changeover

1P up to 4P

Size 3

A 200|250|315



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3				**T200**	**T250**	**T315**
Rated thermal current	Ith		A	200	250	315
Rated insulation voltage	Ui		V	690	690	690
Rated impulse withstand voltage	Uimp		kV	8	8	8
AC rated operational current	Ie	Ue 415V AC21A	A	200	250	315
		Ue 415V AC22A	A	200	250	315
		Ue 690V AC21A	A	200	220	250
		Ue 690V AC22A	A	200	200	200
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V AC23A	kW	55	67	75
		3x240V AC3	kW	45	54	61
		3x240V AC4	kW	15	18	20
		1x240V AC3	kW	22	22	22
		1x240V AC4	kW	7,5	9	10
		3x415V AC23A	kW	90	115	130
		3x415V AC3	kW	75	95	108
		3x415V AC4	kW	22	28	31
		1x400V AC3	kW	37	47	53
		1x400V AC4	kW	11	14	16
		3x500V AC23A	kW	110	130	145
		3x500V AC3	kW	90	106	118
		3x500V AC4	kW	22	26	29
		3x690V AC23A	kW	132	155	175
		3x690V AC3	kW	110	129	145
		3x690V AC4	kW	22	25	29
Rated conditional short-circuit current			kA	25	15	15
Rated maximum current	gL-gG		A	200	250	315
Rated breaking capacity	400V; cos φ=0,45		A	1450	2000	2240
Rated short-time withstand current (1 sec)			A	4400	4400	4400
Mechanical durability (thousand of operations)				1000	1000	1000
Rigid copper conductor			mm^2	95	120	185
Flexible copper conductor			mm^2	95	120	185
According to UL508 - CAN / CSA C22.2 Nº 14				**T200**	**T250**	**T315**
Rated thermal current	Ith		A	200	200	200
General use rating			Vac	600	600	600
AC rated operational power		3x240V	HP	60	60	60
		3x480V	HP	75	75	75
		3x600V	HP	60	60	60

Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

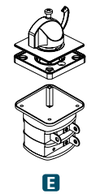
series T

Code 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Series | Amp
T-00200
T-00250
T-00315

Diagram

Type
Model or fixing



E

Plate and handle

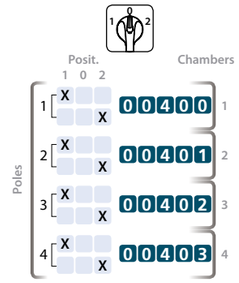


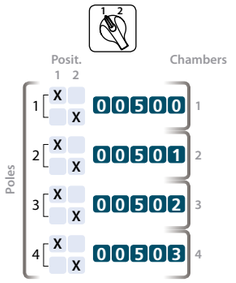
1N1 Arrow handle



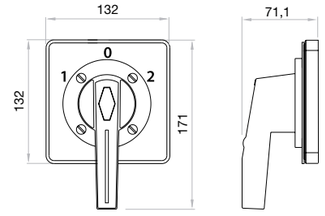
NN1 Padlockable handle

For red/yellow handle, please consult

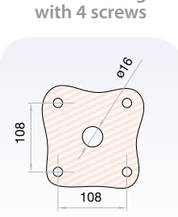


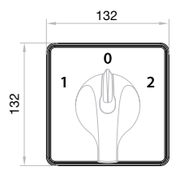


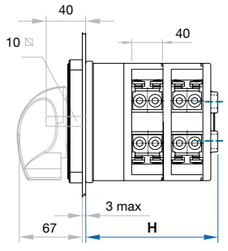
Dimensions (mm)

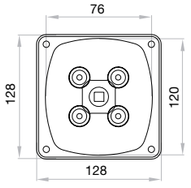


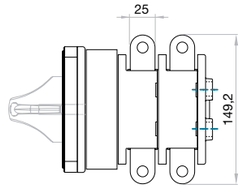
Frontal fixing with 4 screws





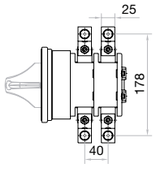


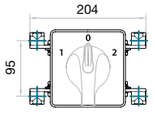


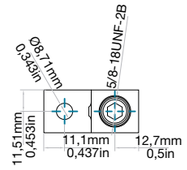


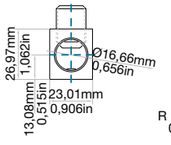
UL Terminal Lug

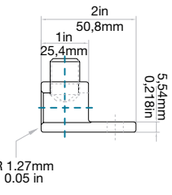
Terminal extensions according to UL.











T series	Chambers	1□	2□	3□	4□
T200 T250 T315	H	95	135	175	215

Wire size	Wires per lug	Wire type	kit reference
150 mm^2 / 300 kcmil	1	Cu/Al	DS-TL01 (2 pieces)

›› For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

series T

T
Base mounting changeover with clutch device 1P up to 4P

Size 3
A 200|250|315



T

Technical information

According to IEC/EN 60947-3
UL508 - CAN/CSA C22.2 Nº 14

According to IEC 60947-3					**T200**	**T250**	**T315**
Rated thermal current	Ith			A	200	250	315
Rated insulation voltage	Ui			V	690	690	690
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current	Ie	Ue 415V	AC21A	A	200	250	315
		Ue 415V	AC22A	A	200	250	315
		Ue 690V	AC21A	A	200	220	250
		Ue 690V	AC22A	A	200	200	200
AC rated operational power (Rated operational frecuency 50/60 Hz)	Pe	3x240V	AC23A	kW	55	67	75
		3x240V	AC3	kW	45	54	61
		3x240V	AC4	kW	15	18	20
		1x240V	AC3	kW	22	22	22
		1x240V	AC4	kW	7,5	9	10
		3x415V	AC23A	kW	90	115	130
		3x415V	AC3	kW	75	95	108
		3x415V	AC4	kW	22	28	31
		1x400V	AC3	kW	37	47	53
		1x400V	AC4	kW	11	14	16
		3x500V	AC23A	kW	110	130	145
		3x500V	AC3	kW	90	106	118
		3x500V	AC4	kW	22	26	29
		3x690V	AC23A	kW	132	155	175
		3x690V	AC3	kW	110	129	145
		3x690V	AC4	kW	22	25	29
Rated conditional short-circuit current				kA	25	15	15
Rated maximum current	gL-gG			A	200	250	315
Rated breaking capacity	400V; cos φ=0,45			A	1450	2000	2240
Rated short-time withstand current (1 sec)				A	4400	4400	4400
Mechanical durability (thousand of operations)					1000	1000	1000
Rigid copper conductor				mm^2	95	120	185
Flexible copper conductor				mm^2	95	120	185
According to UL508 - CAN / CSA C22.2 Nº 14					**T200**	**T250**	**T315**
Rated thermal current	Ith			A	200	200	200
General use rating				Vac	600	600	600
AC rated operational power		3x240V		HP	60	60	60
		3x480V		HP	75	75	75
		3x600V		HP	60	60	60

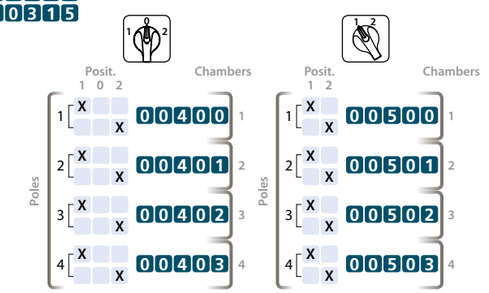
Normal service conditions:
Ambient air temperature (ºC): -5º...+40º. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frecuency at AC utilization categories: 50/60 Hz.
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.
Rated duties at utilization categories AC3 and AC4: Intermittent; temporary.

series T

Code 1 2 3 4 5 6 7 | 8 9 10 11 12 | 13 | 14 15 16

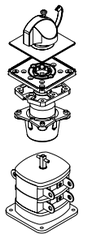
Series | Amp
T-00200
T-00250
T-00315

Diagram



Type

Model or fixing



F

Plate and handle



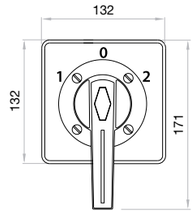
1N1 Arrow handle

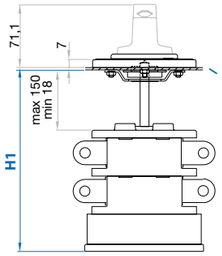


NN1 Padlockable handle

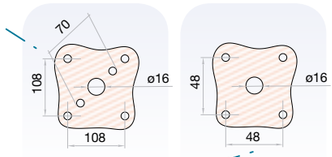
For red/yellow handle, please consult

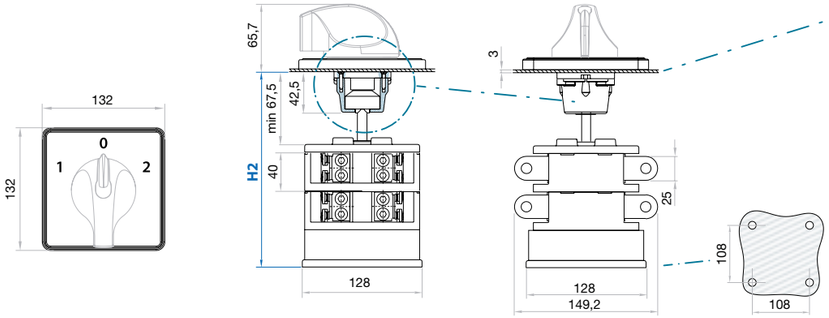
Dimensions (mm)



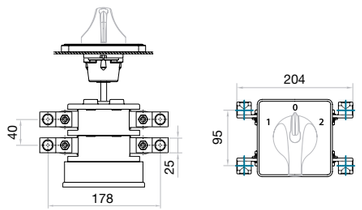


Frontal panel mechanization with 4 screws

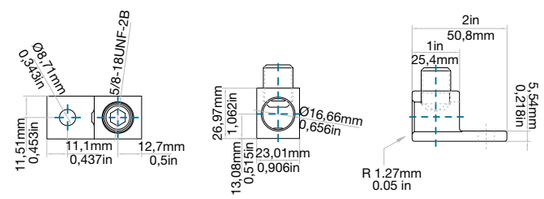




UL Terminal Lug



Terminal extensions according to UL.



T series	Chambers	1□	2□	3□	4□
T200 T250 T315	H1	139,3	179,3	219,3	259,3
	H2	162,5	202,5	242,5	282,5

H1-H2
Specify length when ordering

Wire size	Wires per lug	Wire type	kit reference
150 mm^2 / 300 kcmil	1	Cu/Al	DS-TL01 (2 pieces)

» For more information of these series; accessories see pages 40-47 | diagrams see pages 50-59

13 14 15 16 **D100** 4



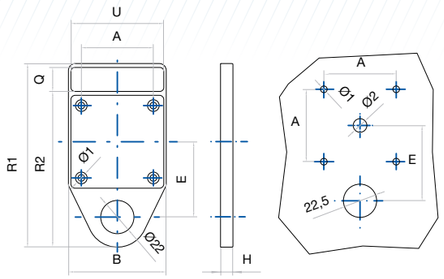
Light with white neon lamp
D100

14 15 16 **D101** 5



Light with white neon lamp and inscription plate
D101

D101 Inscription plate included with text as requested.



Supply	Size	For series	Code D100	Code D101
Spare or incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-10011	DT-10111
	2	T50-T63-T100-T175	DT-10021	DT-10121
	3	T200	DT-10031	DT-10131

Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

13 14 15 16 **D201** E

13 14 15 16 **D200** D



Tandem drive operation*
D200 with two colums
D201 with three colums

13 14 15 16 **D300** F

13 14 15 16 **D301** G



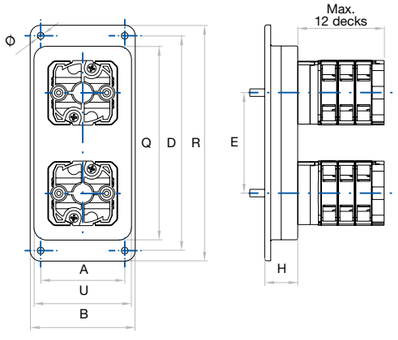
Blocking operation*
D300 with two colums
D301 with three colums

D200-201 Operation with one handle only and up to 48 contacts in two columns, or 72 contacts in three columns according to the electrical diagram.

D300-301 For switching up to 29 positions with two handles and two columns, or 36 positions with three handles and three columns according to the electrical diagram.

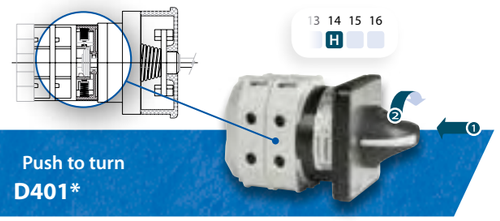
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63-T100
	3	T175- T200

* T Series (without IP20 protections).



Series	Tandem	Blocking	A	B	D	R	U	Q	E	H Tandem	H Blocking	Ø
T12 T20 T16 T25 T32 T40 TF12 TF16 TF25	D200 D201	D300 D301	56	70	143 210	157 224	64	128 195	67	22	22	4,5
T50 T63 T100	D200 D201	D300 D301	90	110	210 306	230 326	95	191 288	97	15	21	6,5
T175 T200	D200 D201	D300 D301	152	173	290 426	310 447	132	270 407	137	19	25	

13 14 15 16 **H**



Push to turn
D401*

Before operating the handle must be pressed to unlock, simultaneously an auxiliary contact it is open or closed (e.g. for switching without load).

Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20-TB20-TB25-TB32
	1	T16-T25-T32-T40

* for arrow handle with indicator, other combinations with special scheme

13 14 15 16 **I**



One way rotation
D405

This device allows to rotate the handle in only one way.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40

13 14 15 16 **3**

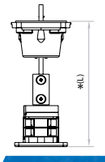


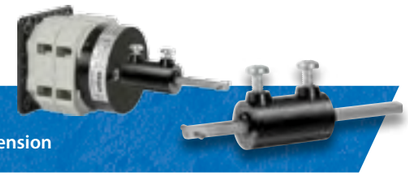
Locking voltage device
D420

The screw position, left or right, prevents the rotation of the handle.

This device always includes a mounting plate size 1.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40





Shaft extension

To extend the shaft length to the depth required.

To be complemented with the corresponding D501 device.

Supply	Size	Length (mm)	For series	Code
Spare or incorporated in the cam switch	0-1	200	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-EPR11
		500		DT-EPR12
	2	200	T50-T63 T100-T175	DT-EPR21
		500		DT-EPR22
Only incorporated in the cam switch	3	upon request	T200	-

*(L) Specify total length when ordering



Clutch device with door interlock
D501

With door interlock in ON position (switch 0-1 to 90°) or according to the electrical diagram.

1 Size 0 with padlockable handle included.

2 Size 0 - 1 - 2 - 3.

	Supply		Size	For series	Code
1	Spare	D501 + 704 90°	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-75401N07
					DT-75401R01
	Incorporated in the cam switch				12 13 14 15 16 F 6 N 1
					12 13 14 15 16 F 6 R D
2	Spare	90°	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-50102
			1	T16-T25-T32-T40	DT-50101
			2	T50-T63-T100-T175	DT-50121
			3	T200	DT-50131
		60°	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-50104
			2	T50-T63-T100-T175	DT-50124
			3	T200	DT-50134
		45°	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-50103
			2	T50-T63-T100-T175	DT-50123
			3	T200	DT-50133
	Incorporated in the cam switch				12 13 14 15 16 F

12 13 14 15 16
B



Coaxial coupling
D600

Simultaneous operation with only one handle of two or more cam switches (T series) with different ratings coupled together.

12 13 14 15 16
Keya Z 4 1 B



Key handle device
D701

D701 Supplied as standard with ø22mm fixing; ø30 mm also available under request.

The key can be locked and removed on request at 60°, 90° or 180°.

Assembly limitation:
4 contacts actuating simultaneously.

D711 Supplied as standard with screw mounting and different types of keys that can be locked and removed at 90°.

Assembly limitation:
4 contacts actuating simultaneously.

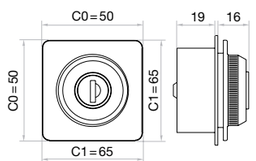
13 14 15 16
D711 Keya M 1 1
13 14 15 16
Kaba mini M 2 1



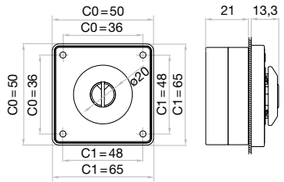
Key handle device
D711

Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25
	1	T16-T25-T32-T40

D701



D711



14 15 16
D702 6



Key lock device
D702

14 15 16
D703 7

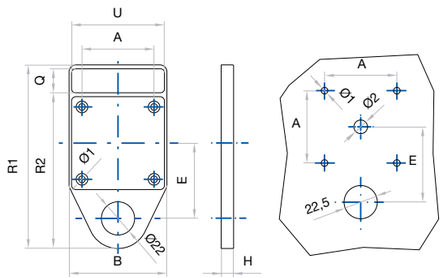


Key lock device with inscription plate
D703

D702 The key lok device allows the adaptation of 1 or 2 auxiliary contacts (1NO + 1NC) operated by turning the key (like signalling or control contacts).

D703 Inscription plate included with text as requested.

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63 T100-T175
	3	T200

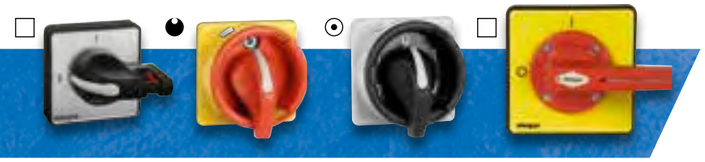


✻ Auxiliary contacts 1NO + 1NC

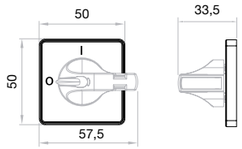


Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

Padlockable handle
D704

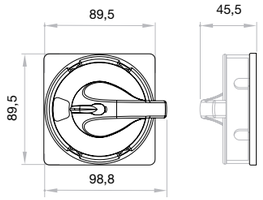


- Allows the blockade of the handle in OFF position using padlock.
- Available in red colour on yellow background 15 R or black colour on grey background 15 N
- According to the machinery directive and the european standards, red & yellow handles 15 R are intended to be used only in ON - OFF safety switches.
- For switches O-I specify version 15 R or 15 N, for the rest will be supplied 15 N version (padlocks not included).

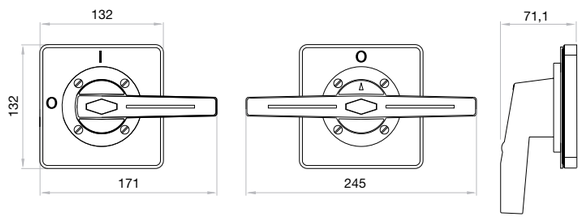


Size 0

Size 0-1



Size 2



Size 3

	Supply	Size	For series	Code
□ Square plate	Spare	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 TP10	DT-70401N07
				DT-70401R01*
	Incorporated in the cam switch			13 14 15 16 6 N 1
				13 14 15 16 6 R D
◕ Closed view	Spare	0 - 1	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-7041CN02
				DT-7041CR02
	Incorporated in the cam switch			13 14 15 16 7 N 0
				13 14 15 16 7 R 0
⊙ Open view	Spare			DT-7041AN02
				DT-7041AR02
	Incorporated in the cam switch			13 14 15 16 C N 0
				13 14 15 16 C R 0
◕ Closed view	Spare	2	T50-T63 T100-T175	DT-7042CN02
				DT-7042CR02
	Incorporated in the cam switch			13 14 15 16 7 N 0
				13 14 15 16 7 R 0
⊙ Open view	Spare			DT-7042AN02
				DT-7042AR02
	Incorporated in the cam switch			13 14 15 16 C N 0
				13 14 15 16 C R 0
□ Square plate (single handle)	Spare	3	T200	DT-70431
				DT-70433*
	Incorporated in the cam switch			13 14 15 16 N N 1
				13 14 15 16 N R D
□ Square plate (double handle)	Spare			DT-70432
				DT-70434*
	Incorporated in the cam switch			13 14 15 16 O N 1
				13 14 15 16 O R D

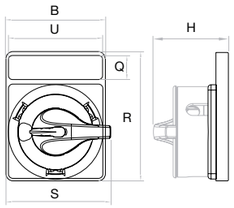
* Yellow plate with 0 - 1 positions included



Padlockable handle with inscription plate
D705

- Handle can be blocked in OFF position using padlocks.
- Available in red colour on yellow background 15 R or black colour on grey background 15 N
- Inscription plate included with text as requested.
- According to the machinery directive and the european standards, red & yellow handles 15 R are intended to be used only in ON - OFF safety switches.
- For switches O-I specify version 15 R or 15 N, for the rest will be supplied 15 N version (padlocks not included).

	Supply	Size	For series	Code
Closed view	Only incorporated in the cam switch	0 - 1	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 T16-T25 T32-T40	13 14 15 16 7 N 2
				13 14 15 16 7 R 2
Open view				13 14 15 16 C N 2
				13 14 15 16 C R 2
Closed view		2	T50-T63 T100-T175	13 14 15 16 7 N 2
				13 14 15 16 7 R 2
Open view				13 14 15 16 C N 2
				13 14 15 16 C R 2
Square plate (single handle)		3	T200	13 14 15 16 N N 2
				13 14 15 16 N R 2
Square plate (double handle)				13 14 15 16 O N 2
				13 14 15 16 O R 2



Size	B	H	Q	R	S	U
0-1	6 5	48,5	16	85	65,8	61
2	94	53,5	19	117	98,8	90
3	132	71,5	21	157	171 245	126

14 15 16 D708 8



Push button blocking system
D708

D708 Available in two versions (specify when ordering):

1) The handle is blocked in all positions.
2) The handle is blocked only in OFF position.

The switch in version 2 can be used for emergency operation since the handle is not blocked in ON position.

Both versions admit the adaptation of 1 and 2 changeover auxiliary contacts (1NO+1NC), which are activated when the button is pressed and it can be used as signalling and combined operation with contactors.

D709 Inscription plate included with text as requested.

14 15 16 D709 9

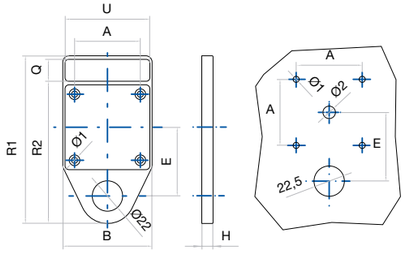


Push button blocking system with inscription plate
D709

Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25 TB32-TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63-T100-T175
	3	T200

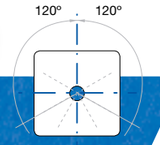


✻ Auxiliary contacts 1NO + 1NC 2NO + 2NC



Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

13 14 15 16 K



Return from one or two ways up to 120°
D802

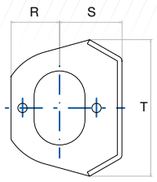
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40

14 15 16 E



Terminal shrouds
D900

Sizes 0-1 and 2 are supplied as standard with removable protected terminals (IP20).

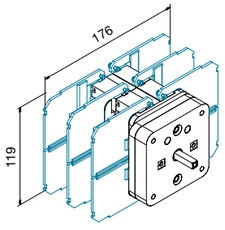


Series	R	S	S
T12 T20	21	27	59
T16 T25 T32 T40	28	34	72
T50 T63 T100	15	52	104
T200	40	155	130

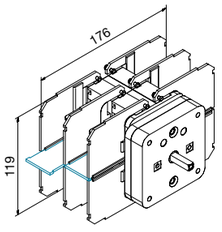
Supply	Size	For series	Code
Spare	0	T12-T20	DT-90002
	1	T16-T25-T32-T40	DT-90012
	2	T50-T63	DT-90022
		T100	DT-90024
	3*	T200	DT-90031
		T400	DT-90032

* Max. 2 chambers

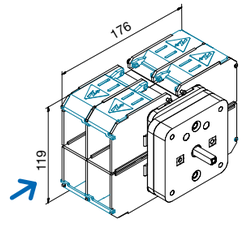
T175 terminal shrouds and phase barriers
D900



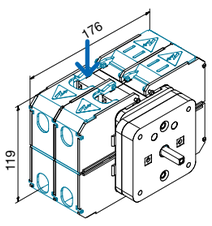
Phase barriers - Vertical
Code **DT-90025** (4 units)



Phase barriers - Horizontal
Code **DT-90026** (2 units)



Terminal shrouds (L)
Code **DT-90027** (4 units)



Terminal shrouds (S)
Code **DT-90028** (4 units)

12 13 14 15 16 A



DIN rail mounting device
D904



Front plates for distribution boards
D905

D904 Included as standard in D-F-G fixing types for TB-TF and T175 series.

D905 DIN rail mounting with frontal plate and handle for distribution boards.

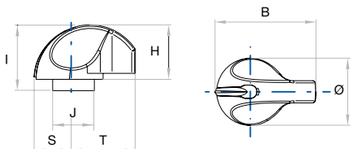
	Supply	Size	For series	Code
D904	Spare or incorporated in the cam switch	0-1	T12-T20-T16 T25-T32-T40	DT-90401
		2	T50-T63-T100-T175	DT-90421
D905	Only incorporated in the cam switch	0	T12-T20 TF12-TF16-TF25	12 13 14 15 16 H 8 N 0

Handles



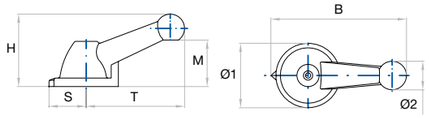
- 14 1 Arrow handle with indicator.
- 14 2 Ball lever handle for size 1 and 3.
- 14 B Double handle for cam switches size 3.

	Supply	Size	Code	
Arrow handle with indicator	Spare or incorporated in the cam switch	0	●	40110030
			●	40110031
		1	●	40111034
			●	40111035
		2	●	40112028
			●	40112029
		3	●	40113023
			●	40113024
Ball lever	Spare or incorporated in the cam switch	1	●	40111002
			●	40111003
		3	●	40113002
			●	40113001
Double handle	Spare or incorporated in the cam switch	3	●	40113008
			●	40113007



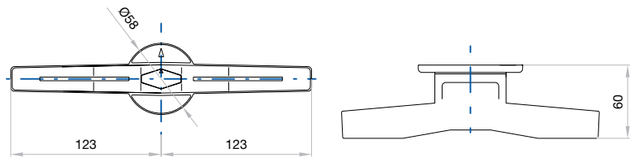
Arrow hadle with indicator (sizes 0 - 1 - 2 - 3)

Size	B	H	I	J	S	T	Ø
0	39,3	26,8	30,5	14,5	13,5	24	27
1	50	28	33	14,5	18	32	36
2	66,5	36,5	-	-	22,5	44	45
3	100	54	-	-	38	62	76



Ball lever (sizes 1 - 3)

Size	B	H	S	T	M	Ø1	Ø2
1	89	48	24	65	32,5	37	18
3	151,5	81	41,5	110	52	72	32

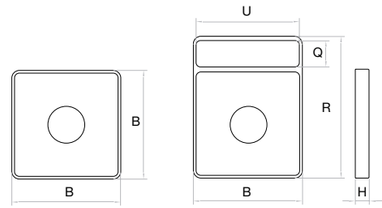


Double handle (size 3)

Neutral name plates and neutral inscription plates



- Plastic indicating plate on square base with black engraving
- Also in yellow colour available (emergency handle).
- Different engravings are available under request.
- PPA model with inscription plate.



PPA **PRA**

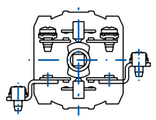
Size	B	R	H	U	Q
0	50	65	6,5	47	11
1	65	85	6,5	61	16
2	94	117	7	90	19
3	132	157	10	126	21

	Supply	Size	Code		
			○	○	◘
PPA (neutral plate)	Spare or incorporated in the cam switch	0	40140045	40140061	40110028
		1	40141039	40141053	40111032
		2	40142020	40142028	40142025
		3	40143020	40143028	40143084

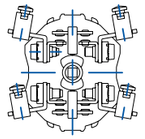
	Supply	Size	Code		
			▭		◘
PRA (neutral plate)	Spare or incorporated in the cam switch	0	40140203		40110029
		1	40141188		40111033
		2	40142095		40112026
		3	40143088		40143086

Terminal extensions CP

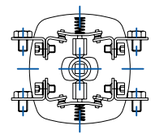
Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20
	1	T16-T25-T32-T40
	2	T50-T63-T100



T12-T16-T20-T25



T32-T40-T63-T100



T200 standard connection as per drawing

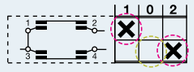
Fast-on terminals 6,25 x 0,8



Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20 T16-T25-T32-T40

TP | T | TB | TF
Standard diagrams

For many switching operations that can be resolved using cam switches, we have a number of standard schemes applicable to the most common applications in electrical installations, equipment, machinery, etc. If you do not find what you are looking for in this selection, or have a special switching requirement, you can use the blank diagrams form on the next page and send it to our sales department. The descriptive logic representing and interpreting the circuits are explained below.

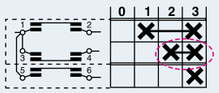


It represents "closed contact".

It represents "opened contact".

The contact 1/2 is closed in position 1 and opened in positions 0 & 2.

The contact 3/4 is closed in position 2 and opened in positions 0 & 1.

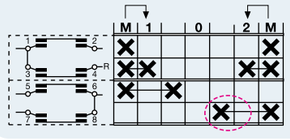


It represents closed contact "without interruption".

The contact 1/2 closes in position 1, and remains closed in position 2 & 3.

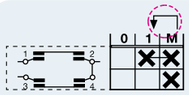
The contact 3/4 closes in position 2 and remains closed in position 3.

When passing from one position to another there is no contact interruption in any cases.



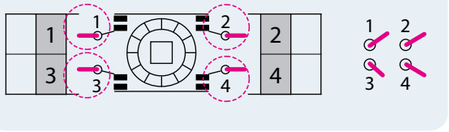
They represent "late break contact" or "early-make contact" in relation to others.

The contacts 5/6 & 7/8 close before the contacts 3/4 & 1/2 and they will also open after these contacts.

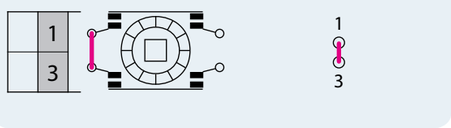


It represent "spring return" to previous position.

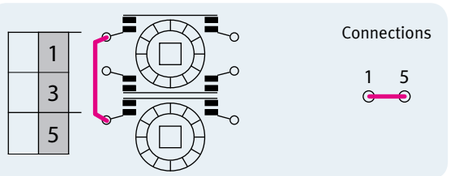
The M position is not fixed and it will return to position 1 when the handle is released.



Connection point.

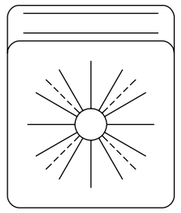


Vertical bridging link.



Horizontal bridging link.

Inscription plate
Name plate



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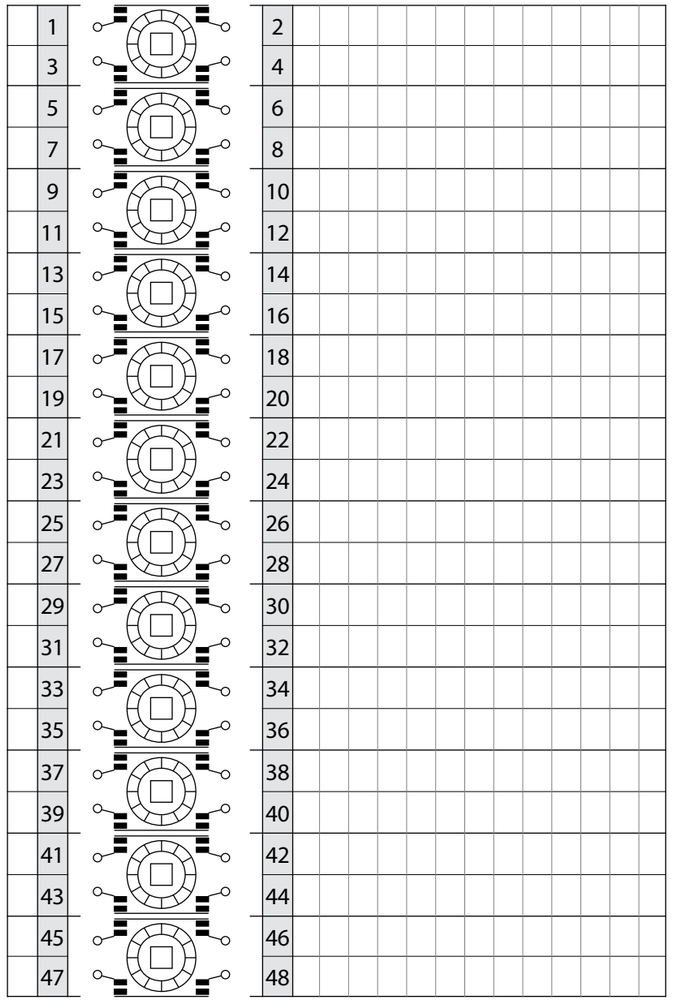
Series

Code

Contact closed
Closed contact without interruption
Late break contact
Early-make contact
Return from 30º

Rev.

Number of switch positions



Connections

1	5	9	13	17	21	25	29	33	37	41	45
3	7	11	15	19	23	27	31	35	39	43	47
46	42	38	34	30	26	22	18	14	10	6	2
48	44	40	36	32	28	24	20	16	12	8	4

T series

0	12	20				
1	16	25	32	40		
2	50	63	80	100	125	175
3	200	250	315	400	500	

TB series

20	25	32	40

TF series

12	16	25	32	40

TP series

10

Type

E | C | Z | D | G | H | F

Handle

Indicator arrow | Black
Ball lever handle | Red
Double handle | Yellow
Key | Keya | Kaba mini

Shaft extension

mm

Nameplate

Aluminium colour | Normal
Yellow colour | With inscription
Switching angle 30º -45º -60º -90º

Materials

Chambers

Notes

Validity

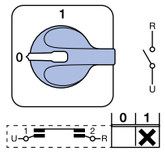
Date

Signature

Special devices

series TP|T|TB|TF

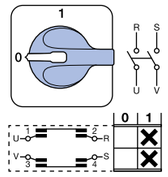
On-Off switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 0

010
1 pole
1 chamber

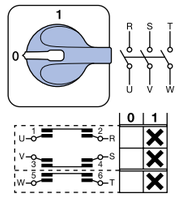
010/5	5 poles
010/6	6 poles
010/7	7 poles
010/8	8 poles
010/9	9 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 1

011
2 poles
1 chamber

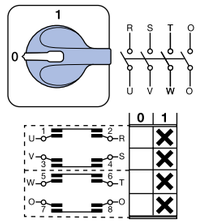
010/10	10 poles
010/11	11 poles
010/12	12 poles
010/13	13 poles
010/14	14 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 2

012
3 poles
2 chambers

010/15	15 poles
010/16	16 poles
010/17	17 poles
010/18	18 poles
010/19	19 poles



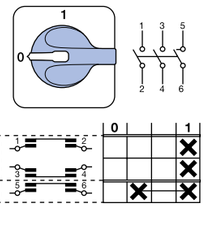
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 1 3

013
4 poles
2 chambers

010/20	20 poles
010/21	21 poles
010/22	22 poles
010/23	23 poles
010/24	24 poles

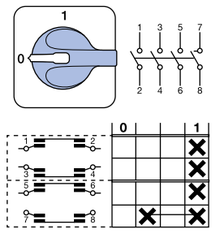
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On-Off switches with contacts leading when making



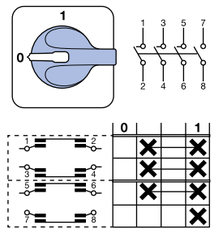
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 0

020
3 poles 1 preclosed pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 1

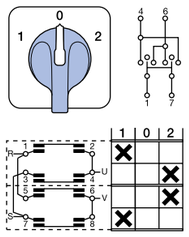
021
4 poles 1 preclosed pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 0 2 2

022
4 poles 3 preclosed poles
2 chambers

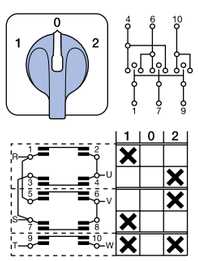
Reversing switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 0 1

101
2 poles
2 chambers

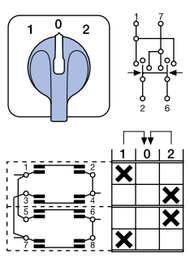
Reversing switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 0 2

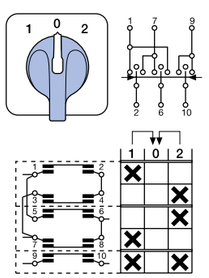
102
3 poles
3 chambers

Reversing switches with spring return



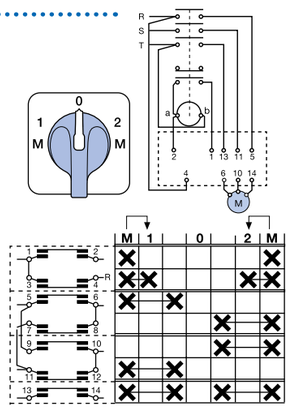
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 1

111
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 2

112
3 poles
3 chambers

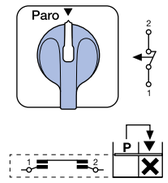


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 1 1 3

113
3 poles for use with reserving contactors
4 chambers

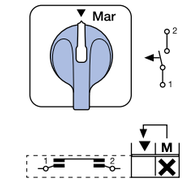
series TP|T|TB|TF

Control switches with spring return



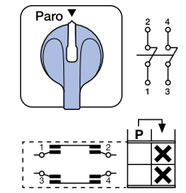
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 1

201
Start switch 1 pole
1 chamber



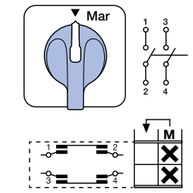
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 2

202
Stop switch 1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 3

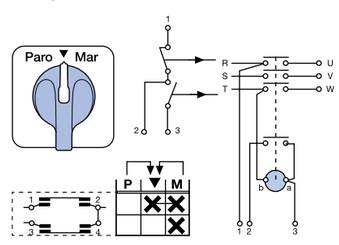
203
Start switch 2 poles
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 4

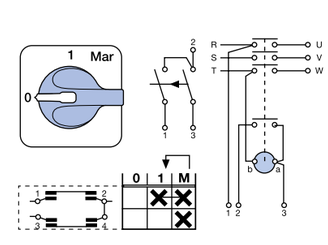
204
Stop switch 2 poles
1 chamber

Stop-Start switches



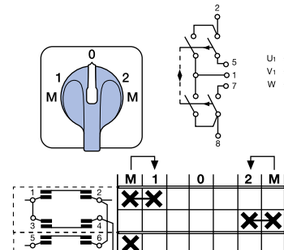
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 5

205
With contactor
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 6

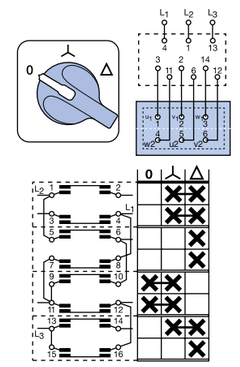
206
With contactor and spring return
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 2 0 7

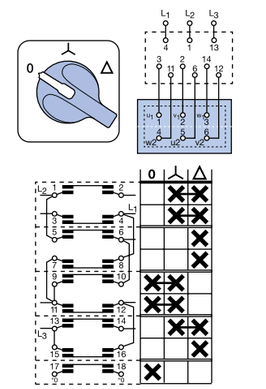
207
With spring return to run for 2 units
2 chambers

Start delta switches



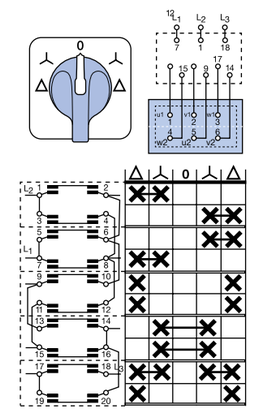
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 0

300
Normal type
4 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 1

301
Auxiliary contact closed in "0"
5 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 3 0 2

302
Reversing
5 chambers

303
Rotary
0 - λ - Δ - 0 - λ - Δ - 0
5 chambers

304
Position λ return to 0
0 - λ - Δ
4 chambers

305
Reversing. Return from λ to 0
Δ - λ - 0 - λ - Δ
5 chambers

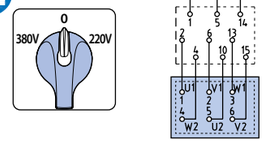
308
Use with contactor
0 - λ - Δ
4 chambers

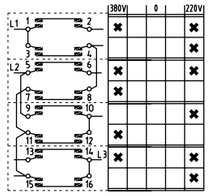
309
Reversing for use with contacto
Δ - λ - 0 - λ - Δ
7 chambers

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series TP|TTB|TF

Start delta switches



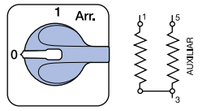


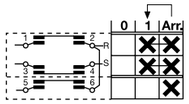
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 0

310
Selector λ - Δ
380 - 0 - 220
4 chambers

Split phase starting switches

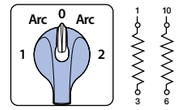


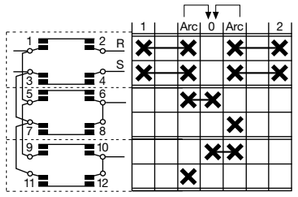


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 5

315
Start return to 1
2 chambers

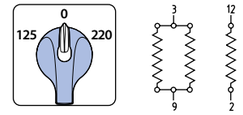


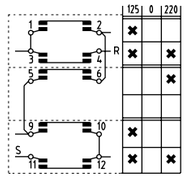


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 1 6

316
Reversing type of T315
1 - ARR - 0 - ARR - 2
3 chambers



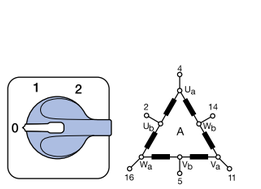


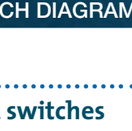
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

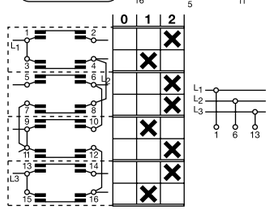
0 0 3 1 7

317
Start single phase 2 voltages
3 chambers

Dahlander multi-step switches



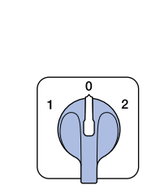




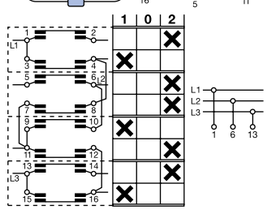
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 0

330
Dahlander 0 - Δ_A - $\lambda\,\lambda_A$
4 chambers



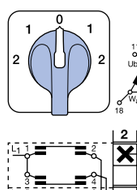


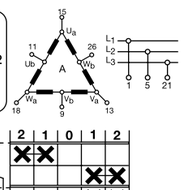


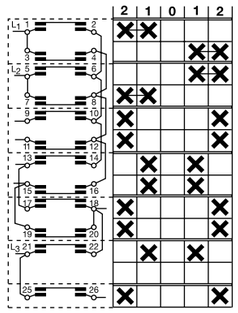
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 1

331
Dahlander Δ_A - 0 - $\lambda\,\lambda_A$
4 chambers







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 3 3 2

332
Reversing type of T330
7 chambers

333
Dahlander 0 - Δ_A - $\lambda\,\lambda_A$ - 0 - Δ_A - $\lambda\,\lambda_A$ - 0
0 - 1 - 2 - 0 - 1 - 2
5 chambers

334
For use with contactor
0 - 1 - 2
5 chambers

335
Selector Dahlander
0 - λ - Δ_A - $\lambda\,\lambda_A$
6 chambers

336
Reversing Dahlander
$\lambda\,\lambda_A$ - Δ_A - λ - 0 - λ - Δ_A - $\lambda\,\lambda_A$
2 - 1 - λ - 0 - λ - 1 - 2
8 chambers

To view these wiring diagrams please visit our download area on www.telergon.com

Separate winding to speed

340
0 - λ_A - Δ - λ_B
0 - λ - 1 - 2
6 chambers

341
0 - Δ_A - λ_B
0 - 1 - 2
4 chambers

342
0 - A - B en λ or Δ
0 - 1 - 2
3 chambers

343
Reversing del 342
2 - 1 - 0 - 1 - 2
5 chambers

344
Δ_B - λ_B - 0 - λ_A - Δ_A
1 - λ - 0 - λ - 2
8 chambers

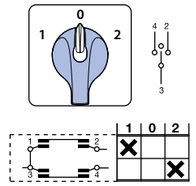
350
0 - λ_A - Δ_B - $\lambda\,\lambda_B$
0 - 1 - 2 - 3
6 chambers

351
Reversing type of T350
3 - 2 - 1 - 0 - 1 - 2 - 3
9 chambers

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series TP|TTB|TF

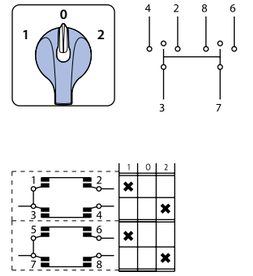
Changeover switches with center "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 0

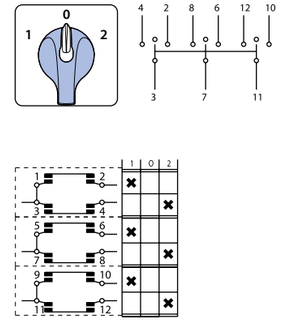
400
1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 1

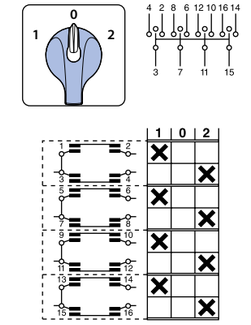
401
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 2

402
3 poles
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 3

403
4 poles
4 chambers

	Poles	Positions	Chambers
400/5	5	3	5
400/6	6	3	6

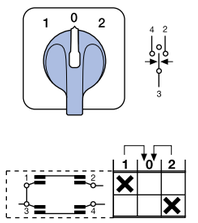
	Poles	Positions	Chambers
400/7	7	3	7
400/8	8	3	8

	Poles	Positions	Chambers
400/9	9	3	9
400/10	10	3	10

	Poles	Positions	Chambers
400/11	11	3	11
400/12	12	3	12

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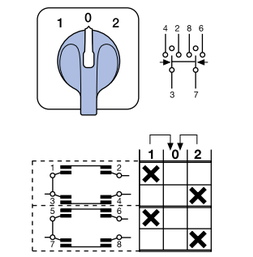
Changeover switches with spring return to center



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 5

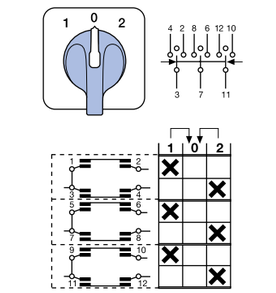
405
1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 6

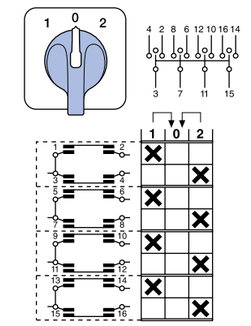
406
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 7

407
3 poles
3 chambers

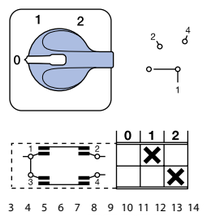


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 0 8

408
4 poles
4 chambers

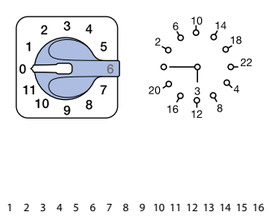
Multi-step switches with "Off" position



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 1 0

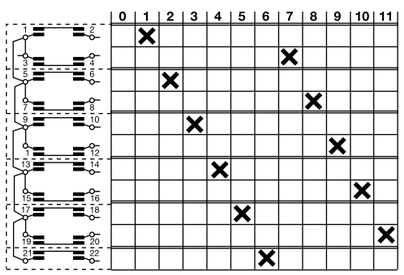
410
1 pole 2 positions
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

0 0 4 1 9

419
1 pole 11 positions
6 chambers



Multi-step switches with “Off” position

	Poles	Positions	Chambers
411	1	3	2
412	1	4	2
413	1	5	3
414	1	6	4
415	1	7	4
416	1	8	5
417	1	9	5
418	1	10	6
420	2	2	2
421	2	3	3

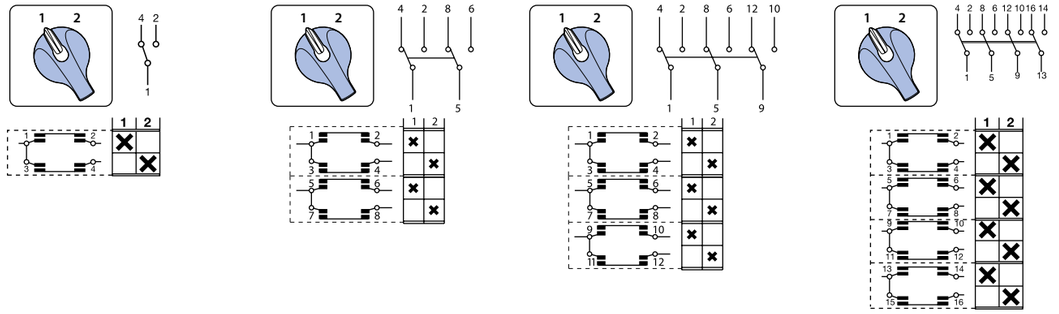
	Poles	Positions	Chambers
422	2	4	4
423	2	5	5
424	2	6	7
425	2	7	8
426	2	8	9
427	2	9	10
428	2	10	11
429	2	11	12
430	3	2	3
431	3	3	5

	Poles	Positions	Chambers
432	3	4	6
433	3	5	9
434	3	6	12
435	3	7	12
440	4	2	4
441	4	3	6
442	4	4	8
443	4	5	10
450	5	2	5
451	5	3	8

	Poles	Positions	Chambers
452	5	4	10
460	6	2	6
461	6	3	9
462	6	4	12
470	7	2	7
471	7	3	11
480	8	2	8
481	8	3	12
490	9	2	9

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Changeover switches without “Off”



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 0

500
1 pole
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 1

501
2 poles
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 2

502
3 poles
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 0 3

503
4 poles
4 chambers

	Poles	Positions	Chambers
500/5	5	2	5
500/6	6	2	6

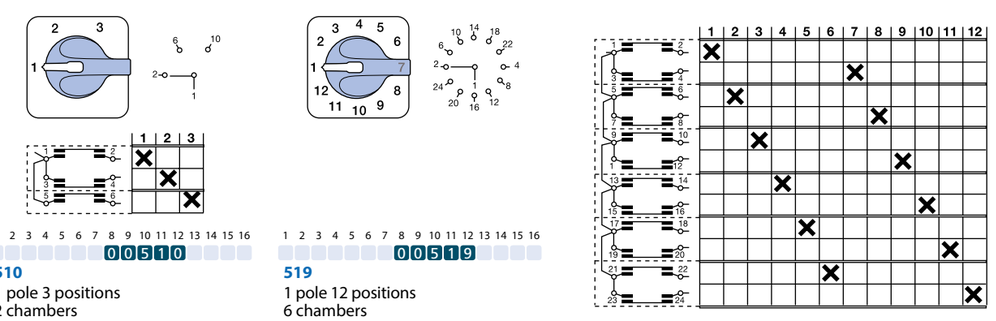
	Poles	Positions	Chambers
500/7	7	2	7
500/8	8	2	8

	Poles	Positions	Chambers
500/9	9	2	9
500/10	10	2	10

	Poles	Positions	Chambers
500/11	11	2	11
500/12	12	2	12

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Multi-step switches without “Off” position



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 1 0

510
1 pole 3 positions
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 5 1 9

519
1 pole 12 positions
6 chambers

Multi-step switches without “Off” position

	Poles	Positions	Chambers
511	1	4	2
512	1	5	3
513	1	6	3
514	1	7	4
515	1	8	4
516	1	9	5
517	1	10	5
518	1	11	6
520	2	3	3

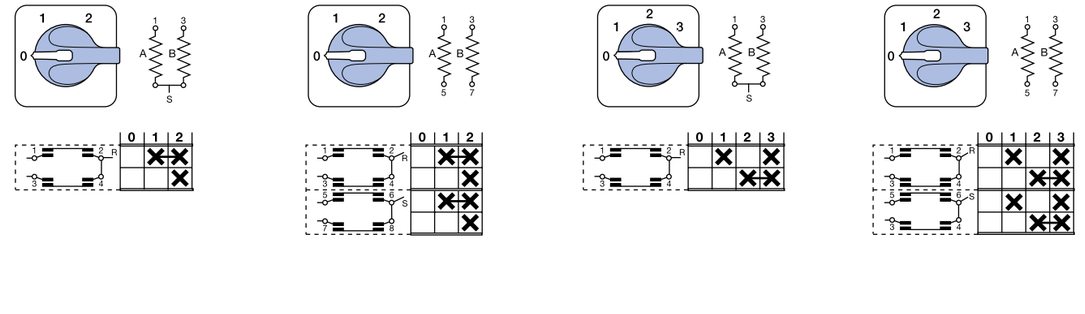
	Poles	Positions	Chambers
521	2	4	4
522	2	5	5
523	2	6	6
524	2	7	7
525	2	8	8
526	2	9	9
527	2	10	10
528	2	11	11
529	2	12	12

	Poles	Positions	Chambers
530	3	3	5
531	3	4	6
532	3	5	8
533	3	6	9
534	3	7	11
535	3	8	12
540	4	3	6
541	4	4	8
542	4	5	10

	Poles	Positions	Chambers
543	4	6	12
550	5	3	8
551	5	4	10
552	5	5	13
560	6	3	9
561	6	4	12
570	7	3	11
580	8	3	12

To view these wiring diagrams please visit our download area on www.telergon.com

Gang switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 1

601
1 pole switching sequence
0 - A - (A+B)
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 2

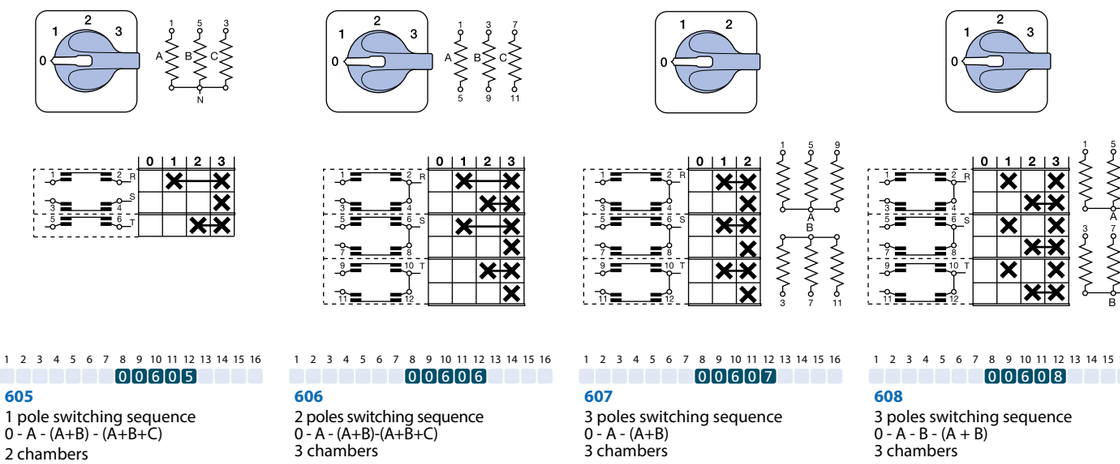
602
2 poles switching sequence
0 - A - (A+B)
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 3

603
1 pole switching sequence
0 - A - B - (A+B)
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 4

604
2 poles switching sequence
0 - A - B - (A+B)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 5

605
1 pole switching sequence
0 - A - (A+B) - (A+B+C)
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 6

606
2 poles switching sequence
0 - A - (A+B)-(A+B+C)
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 7

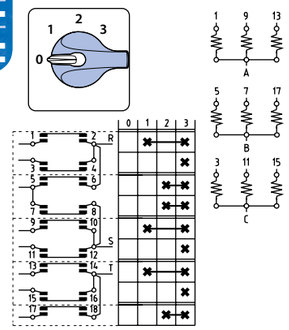
607
3 poles switching sequence
0 - A - (A+B)
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 8

608
3 poles switching sequence
0 - A - B - (A + B)
3 chambers

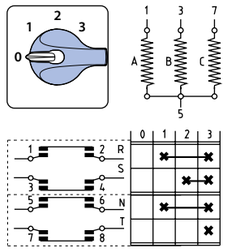
series TP|T|TB|TF

Gang switches



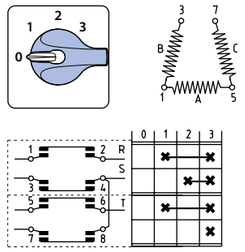
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 9

609
3 poles switching sequence
0 - A - (A+B) - (A+B+C)
5 chambers



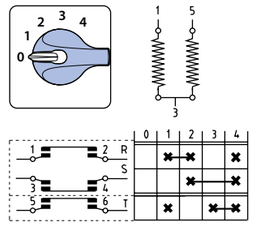
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 0

610
Switching sequence
λ 0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 1

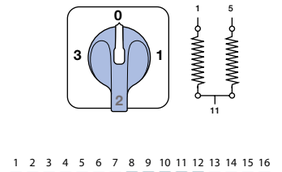
611
Switching sequence
Δ 0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 2

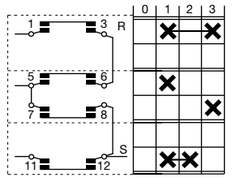
612
Switching sequence 0 - A + B series
A - B - (A + B) paralell
2 chambers

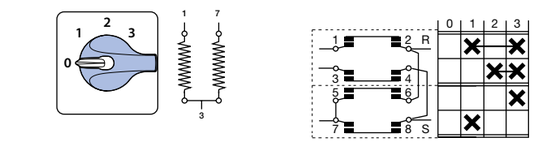
Kitchen and heating switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 3

613
3 positions switching sequence
0-A+B paralell; A or B-A+B series -0
3 chambers

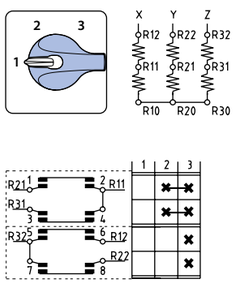




1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 1 4

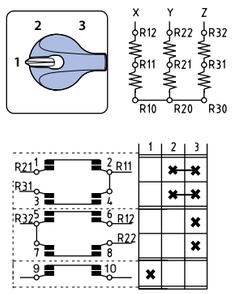
614
3 positions switching sequence
0-A+B series; A or B-A+B paralell
2 chambers

Resistance elimination switches



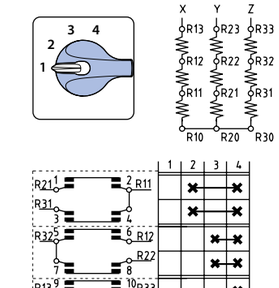
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 0

620
3 phases, 3 points
2 chambers



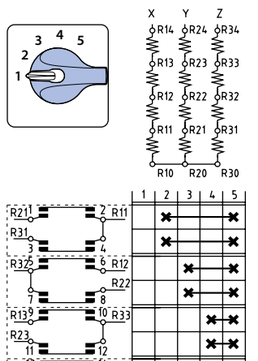
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 1

621
3 phases, 3 points
3 chambers
With auxiliary contact



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 2

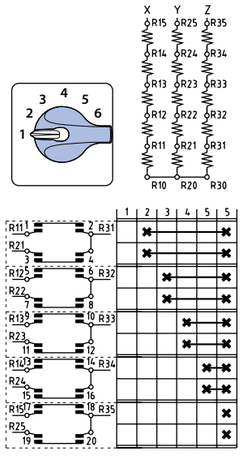
622
3 phases, 4 points
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 4

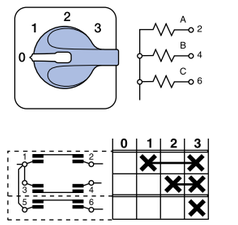
624
3 phases, 5 points
4 chambers

series TP|T|TB|TF



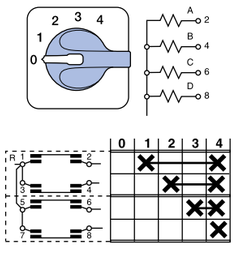
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 2 6

626
3 phases, 6 points
5 chambers



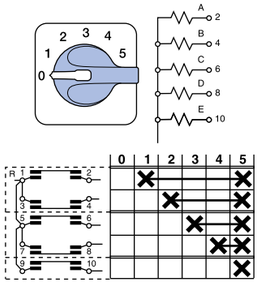
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 0

630
Switching sequence
0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 1

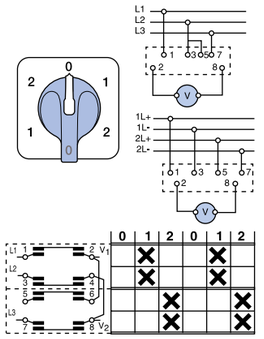
631
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 3 2

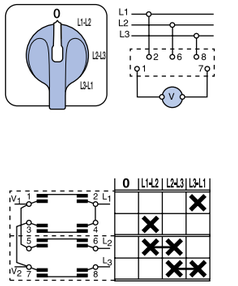
632
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D) - (A+B+C+D+E)
3 chambers

Voltmeter switches



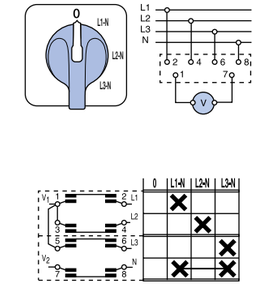
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 0

700
2 phases C.A. or 2 poles C.C.
2 chambers



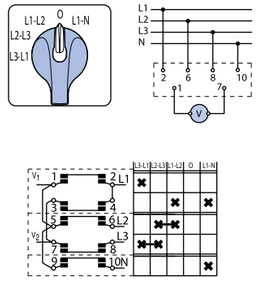
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 1

701
3 phases
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 2

702
3 phases to neutral
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 4

704
3 phases and 1 phase to neutral
3 chambers

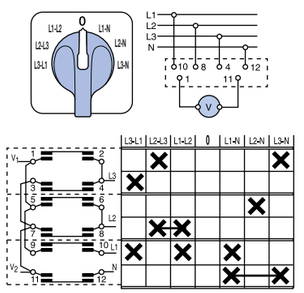


Tabla equivalencias
11=1L1
12=1L2
13=1L3
21=2L1
22=2L2
23=2L3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 5

705
3 phases a phase and 3 phases to neutral
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 0 6

706
2 líneas trifásicas (phase to phase)
4 chambers/chambers

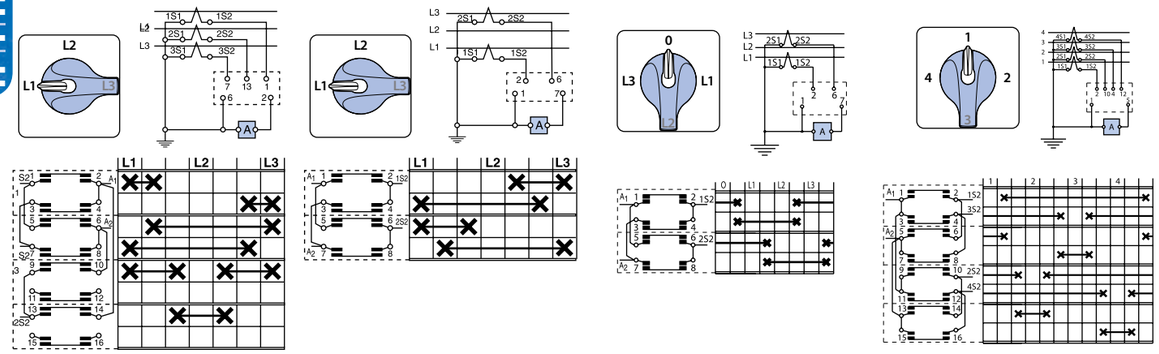
703
4 lines with 2 wires C.A. o C.C.
4 chambers

708
3 phases, 2 potencial transformers
1 pole
2 chambers

To view these wiring diagrams please visit our download area on www.telergon.com

series TP|TTB|TF

Ammeter switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 0

720*
3 phases, 3 current transformers,
1 pole
4 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 1

721
3 phases, 2 current transformers,
1 pole
2 chambers

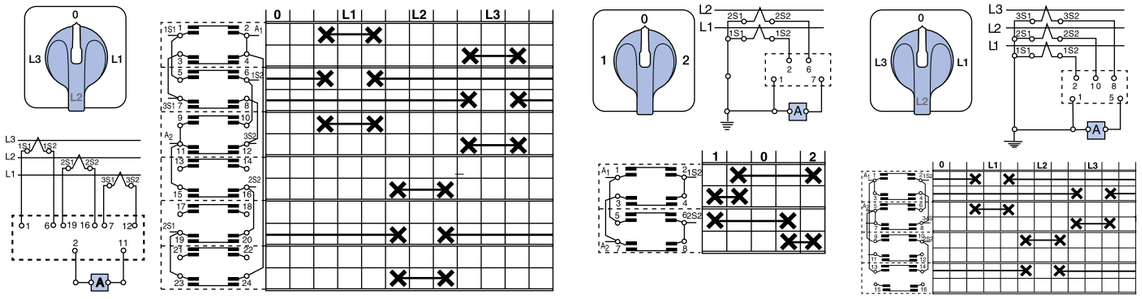
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 4

724
3 phases, 2 current transformers,
1 pole
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 5

725
4 lines, 4 current transformers,
1 pole
4 chambers

* New diagram 732



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 2 7

727
3 lines, 3 current transformers,
2 poles
6 chambers

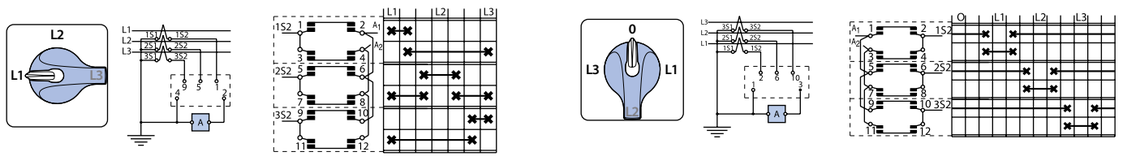
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 0

730
2 current transformers,
1 pole
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 1

731*
3 current transformers,
1 pole
4 chambers

* New diagram 733



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 2

732
3 phases, 3 current transformers,
1 pole
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 7 3 3

733
3 lines, 3 current transformers,
1 pole
3 chambers

722
3 phases, 2 or 3 current transformers,
1 pole
5 chambers

723
2 lines, 2 current transformers,
1 pole
3 chambers

726
2 lines, 2 current transformers,
2 poles
3 chambers

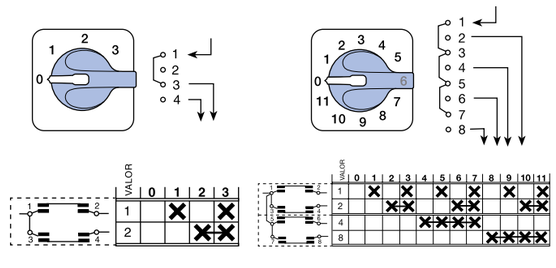
728
4 lines, 4 current transformers,
2 poles
6 chambers

729
1 current transformers,
1 pole
1 chamber

To view these wiring diagrams please visit our download area on www.telergon.com

series TP|TTB|TF

Switches for B.C.D. codification with "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 B C D 3

0BCD3
3 positions
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 B C 1 1

0BCD11
11 positions
2 chambers

0BCD4
4 positions
2 chambers

0BCD5
5 positions
2 chambers

0BCD6
6 positions
2 chambers

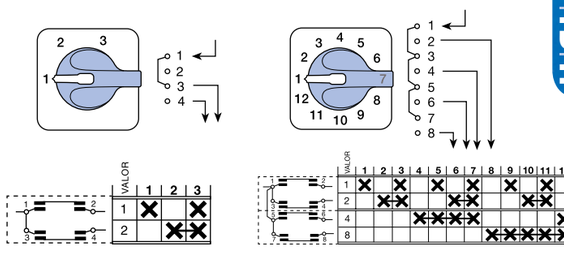
0BCD7
7 positions
2 chambers

0BCD8
8 positions
2 chambers

0BCD9
9 positions
2 chambers

0BCD10
10 positions
2 chambers

Switches for B.C.D. codification without "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1 B C 0 3

1BCD3
3 positions
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
1 B C 1 2

1BCD12
12 positions
2 chambers

1BCD4
4 positions
2 chambers

1BCD5
5 positions
2 chambers

1BCD6
6 positions
2 chambers

1BCD7
7 positions
2 chambers

1BCD8
8 positions
2 chambers

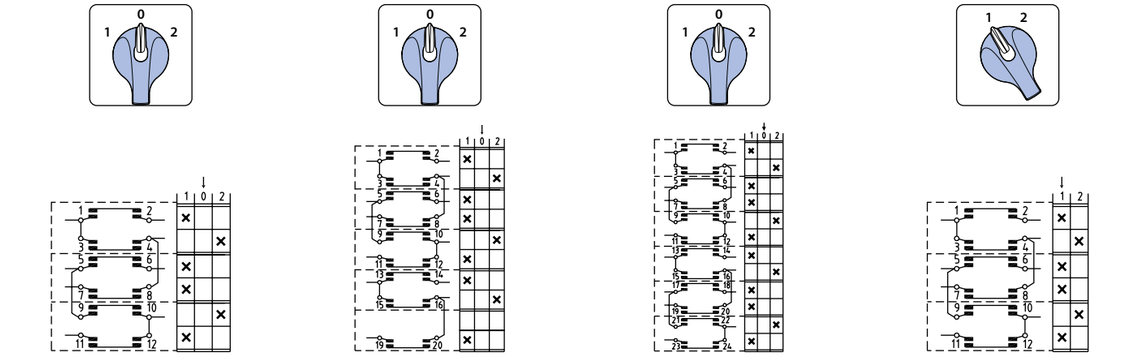
1BCD9
9 positions
2 chambers

1BCD10
10 positions
2 chambers

1BCD11
11 positions
2 chambers

To view these wiring diagrams please visit our download area on www.telergon.com

By-pass switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 0

800
2 poles
3 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 1

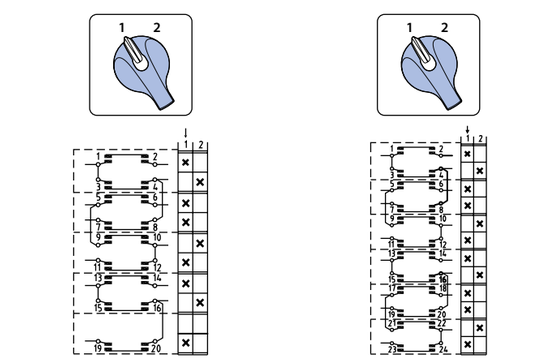
801
3 poles
5 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 0 2

802
3 poles + N
6 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 0

820
2 poles
3 chambers

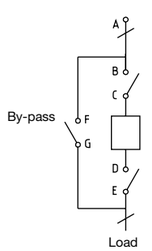


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 1

821
3 poles
5 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 8 2 2

822
3 poles + N
6 chambers



A	L1	L2	L3	N
B	1	5	13	17
C	2	6	14	18
D	7	11	19	23
E	4	10	16	22
F	1	5	13	17
G	4	10	16	22

series
ZBK

AC
Modular switch - disconnectors and changeover switches

Modular switch – disconnectors and changeover switches of reduced size, available in different fixation types with a wide range of currents and a variety of accessories.

According to:
VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1
UL & cUL
RoHS

Testing and approvals:

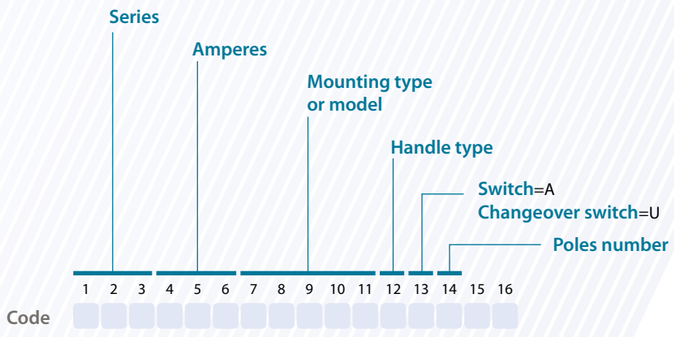


The ZBK switch - disconnectors are 3, 4, 6 and 8-pole modular devices with a high breaking capacity and contact pressure, which respond well to short circuits. They are designed for use in low voltage civil and industrial machines and facilities and made of different models depending on the type of mounting. Manufactured under strict quality controls to provide a reliable product that meets the most demanding requirements.

The ZBK series also includes a range of 1-0-2 changeover switches plus applications with plastic enclosures and various accessories.

Range coding:

The ZBK series, are identified by a code that describes their most important characteristics as described below



ZBK O-I



Door mounting fixing by screws.

Two sizes of padlockable handles.

Auxiliary terminals and other accessories.



Base mounting fixing by screws or DIN rail and handle ø22

Two sizes of padlockable handles.

Shaft extension depth-adjustable.

Auxiliary terminals and other accessories.



Base mounting fixing by screws or DIN rail.

Direct handle (modular) with lock.

Auxiliary terminals and other accessories.

ZBK I-O-2



Modular switch in plastic enclosure (sealable).

Padlockable handles.



Base mounting fixing by screws or DIN rail.

Direct handle (modular) with lock.

Supplied with bridging links included.

Auxiliary terminals and other accessories.

Accessories



Auxiliary contacts



PE - Terminal



N - Terminal



N - Fixed neutral

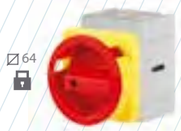
series ZBK

ZBK
Switch door mounting with padlockable handle IP66

3P - 3P+N

Size 0

A 20|25|40|63|80|125





⍁		CODE-20A	CODE-25A	CODE-40A	CODE-63A	CODE-80A	CODE-125A
64	3P	ZBK20EHN4A3	ZBK25EHN4A3	ZBK40EHN4A3	ZBK63EHN4A3	ZBK80EHN4A3	ZBK125EHN4A3
	3P + N	ZBK20EHN4A4	ZBK25EHN4A4	ZBK40EHN4A4	ZBK63EHN4A4	ZBK80EHN4A4	ZBK125EHN4A4
	3P	ZBK20EH4A3	ZBK25EH4A3	ZBK40EH4A3	ZBK63EH4A3	ZBK80EH4A3	ZBK125EH4A3
	3P + N	ZBK20EH4A4	ZBK25EH4A4	ZBK40EH4A4	ZBK63EH4A4	ZBK80EH4A4	ZBK125EH4A4
48	3P	ZBK20EHN1A3	ZBK25EHN1A3	ZBK40EHN1A3	ZBK63EHN1A3	ZBK80EHN1A3	-
	3P + N	ZBK20EHN1A4	ZBK25EHN1A4	ZBK40EHN1A4	ZBK63EHN1A4	ZBK80EHN1A4	-
	3P	ZBK20EH1A3	ZBK25EH1A3	ZBK40EH1A3	ZBK63EH1A3	ZBK80EH1A3	-
	3P + N	ZBK20EH1A4	ZBK25EH1A4	ZBK40EH1A4	ZBK63EH1A4	ZBK80EH1A4	-

Technical information


3P


3P + N

According to VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1

				20	25	40	63	80	125
Rated thermal current	Ith		A	20	25	40	63	80	125
Rated thermal current enclosed	Ithe		A	20	25	40	63	80	110
Rated insulation voltage	Ui		V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	8
AC rated operational current	Ie	AC21A	A	20	25	40	63	80	125
Making capacity	Ieff	3x380-440V	A	160	190	300	370	440	850
Breaking capacity		3x220-240V	A	160	180	250	330	380	680
		3x380-440V	A	160	180	250	330	380	680
		3X660-690V	A	80	110	170	190	220	420
Direct switching motors	AC3	3x400V	A	12	16	30	37	37	72
	AC3	3x220-240V	kW	3	4	7,5	11	11	22
		3x380-440V	kW	5,5	7,5	15	18,5	18,5	37
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	30
Main & safety switch	AC23	3x400V	A	16	20	32	45	45	85
	AC23A	3x220-240V	kW	4	5,5	9	15	15	30
	AC23B	3x380-440V	kW	7,5	10	16	22	22	45
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	37
Rated conditional short-circuit current			kAeff	10	10	10	10	10	10
Max. fuse size	gL(gG)		A	25	35	50	63	80	125
Rated short-time withstand current (1sec. current)	Icw		A	250	300	500	600	850	1500
Mechanical life			x10³	200	200	200	100	100	100
Connecting capacity									
Solid or stranded cable			mm²	0,5-10			1-25 *(1)		4-50
			AWG	20-8 (10)			16-4 (10)		10-0 (10)
Flexible cable			mm²	0,5-6			4-16 *(1)		10-35
			AWG	20-10			16-6		8-2
Size of terminal screw				M3,5			M5		M6
Tightening torque			Nm	0,8-1,7			2-4		3,5-4,5

According to UL & cUL FILE NO. E123623

				20	25	40	63	80	125
Rated voltage			V	600	600	600	600	600	600
Ampere-Rating "General use"			A	20	25	40	63	80	125
DOL-Rating 3-phase		110-220V	HP	1	1,5	2	3	5	15
		220-240V	HP	3	5	5	10	10	30
		440-480V	HP	7,5	10	10	20	20	60
		550-600V	HP	10	10	15	25	25	60
DOL-Rating 1-phase		110-120V	HP	1	1	1	2	2	7,5
		200-208V	HP	1	2	2	3	3	10
		220-240V	HP	2	2	3	5	5	15
Fuse size (RK5)	Manual Motor Controller		A	40	50	70	90	110	125
5kA / 600V	Motor Disconnect		A	40	50	50	70	70	125
Tightening torque			Nm	1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5
			lb.Inch	11-20	11-20	11-20	24-35	24-35	15-40

*(1) ZBK63___U trenzado 16 mm² / flexible 10 mm²

series ZBK

Accessories



» Auxiliary contacts

1NO+1NC

A	CODE
20 125	ZBKLH11



1NO+1NC overlapping

A	CODE
20 125	ZBKLH11X





» PE - Terminal

A	CODE
20 80	ZBKPE80E



» N - Terminal

A	CODE	A	CODE
20 40	ZBKN40E	63 80	ZBKN80E



» N - Fixed neutral

A	CODE
20 80	ZBKPEN80E

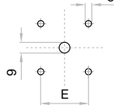
Auxiliary contacts technical information

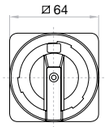
Rated insulation voltage	Ui		V	690
Rated thermal current	Ith - Ithe		A	10
Switching capacity	AC15	220-240V	A	2,5
	AC15	380-440V	A	1,5
Rated conditional short-circuit current			kAeff	3
Max. short circuit protection		gL(gG)	A	10

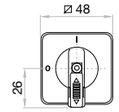
Connecting capacity		
Solid or stranded cable	mm²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm²	0,75-2,5 (1,5)
	AWG	18-14

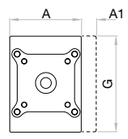
Dimensions (mm)

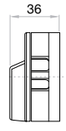
Door drilling for external handle

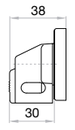


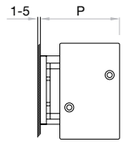






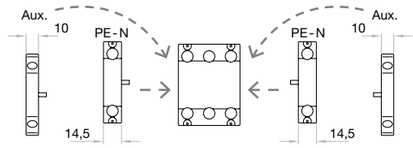






	3P	4P			
	A	A	E	G	P
20-80 A ⍁48	48	62,5	36	64	54
20-80 A ⍁64	48	62,5	48	64	54
125 A ⍁64	78	78	48	85	60

Auxiliary contacts
A1



» Other options also available on request:
- Products external mounting fixing ø 22
- Terminal shrouds

series ZBK

ZBK
Switch base mounting ø 22 door clutch padlockable handle IP66

3P - 3P+N

Size 0

A 20|25|40|63|80|125





⍁		CODE - 20A	CODE - 25A	CODE - 40A	CODE - 63A	CODE - 80A	CODE - 125A
64	3P	ZBK20VZVHN4A3	ZBK25VZVHN4A3	ZBK40VZVHN4A3	ZBK63VZVHN4A3	ZBK80VZVHN4A3	ZBK125VZVHN4A3
	3P + N	ZBK20VZVHN4A4	ZBK25VZVHN4A4	ZBK40VZVHN4A4	ZBK63VZVHN4A4	ZBK80VZVHN4A4	ZBK125VZVHN4A4
	3P	ZBK20VZVH4A3	ZBK25VZVH4A3	ZBK40VZVH4A3	ZBK63VZVH4A3	ZBK80VZVH4A3	ZBK125VZVH4A3
	3P + N	ZBK20VZVH4A4	ZBK25VZVH4A4	ZBK40VZVH4A4	ZBK63VZVH4A4	ZBK80VZVH4A4	ZBK125VZVH4A4
48	3P	-	ZBK25VZVHN1A3	ZBK40VZVHN1A3	ZBK63VZVHN1A3	ZBK80VZVHN1A3	ZBK125VZVHN1A3
	3P + N	-	ZBK25VZVHN1A4	ZBK40VZVHN1A4	ZBK63VZVHN1A4	ZBK80VZVHN1A4	ZBK125VZVHN1A4
	3P	-	ZBK25VZVH1A3	ZBK40VZVH1A3	ZBK63VZVH1A3	ZBK80VZVH1A3	ZBK125VZVH1A3
	3P + N	-	ZBK25VZVH1A4	ZBK40VZVH1A4	ZBK63VZVH1A4	ZBK80VZVH1A4	ZBK125VZVH1A4

Technical information

CE UL EAC

According to VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1


3P


3P + N

				20	25	40	63	80	125
Rated thermal current	Ith		A	20	25	40	63	80	125
Rated thermal current enclosed	Ithe		A	20	25	40	63	80	110
Rated insulation voltage	Ui		V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	8
AC rated operational current	Ie	AC21A	A	20	25	40	63	80	125
Making capacity	Ieff	3x380-440V	A	160	190	300	370	440	850
Breaking capacity		3x220-240V	A	160	180	250	330	380	680
		3x380-440V	A	160	180	250	330	380	680
		3X660-690V	A	80	110	170	190	220	420
Direct switching motors	AC3	3x400V	A	12	16	30	37	37	72
	AC3	3x220-240V	kW	3	4	7,5	11	11	22
		3x380-440V	kW	5,5	7,5	15	18,5	18,5	37
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	30
Main & safety switch	AC23	3x400V	A	16	20	32	45	45	85
	AC23A	3x220-240V	kW	4	5,5	9	15	15	30
	AC23B	3x380-440V	kW	7,5	10	16	22	22	45
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	37
Rated conditional short-circuit current			kAeff	10	10	10	10	10	10
Max. fuse size	gL(gG)		A	25	35	50	63	80	125
Rated short-time withstand current (1sec. current)	Icw		A	250	300	500	600	850	1500
Mechanical life			x10³	200	200	200	100	100	100
Connecting capacity									
Solid or stranded cable			mm²	0,5-10			1-25 *(1)		4-50
			AWG	20-8 (10)			16-4 (10)		10-0 (10)
Flexible cable			mm²	0,5-6			4-16 *(1)		10-35
			AWG	20-10			16-6		8-2
Size of terminal screw				M3,5			M5		M6
Tightening torque			Nm	0,8-1,7			2-4		3,5-4,5

According to UL & cUL FILE NO. E123623

				20	25	40	63	80	125
Rated voltage			V	600	600	600	600	600	600
Ampere-Rating "General use"			A	20	25	40	63	80	125
DOL-Rating 3-phase		110-220V	HP	1	1,5	2	3	5	15
		220-240V	HP	3	5	5	10	10	30
		440-480V	HP	7,5	10	10	20	20	60
		550-600V	HP	10	10	15	25	25	60
DOL-Rating 1-phase		110-120V	HP	1	1	1	2	2	7,5
		200-208V	HP	1	2	2	3	3	10
		220-240V	HP	2	2	3	5	5	15
Fuse size (RK5)	Manual Motor Controller		A	40	50	70	90	110	125
5kA / 600V	Motor Disconnect		A	40	50	50	70	70	125
Tightening torque			Nm	1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5
			lb.Inch	11-20	11-20	11-20	24-35	24-35	15-40

*(1) ZBK63___U trenzado 16 mm² / flexible 10 mm²

series ZBK

Accessories



» Auxiliary contacts

1NO+1NC

A	CODE
20 125	ZBKLH11



1NO+1NC overlapping

A	CODE
20 125	ZBKLH11X





» PE - Terminal

A	CODE
20 80	ZBKPE80V



» N - Terminal

A	CODE	A	CODE
20 40	ZBKN40V	63 80	ZBKN80V



» N - Fixed neutral

A	CODE
20 80	ZBKPEN80V

Auxiliary contacts technical information

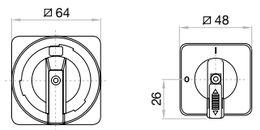
Rated insulation voltage	Ui		V	690
Rated thermal current	Ith - Ithe		A	10
Switching capacity	AC15	220-240V	A	2,5
	AC15	380-440V	A	1,5
Rated conditional short-circuit current			kAeff	3
Max. short circuit protection		gL(gG)	A	10

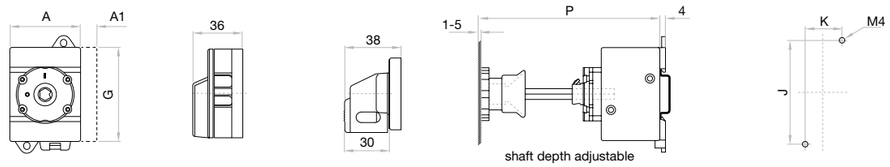
Connecting capacity		
Solid or stranded cable	mm²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm²	0,75-2,5 (1,5)
	AWG	18-14

Dimensions (mm)

Door drilling for external handle

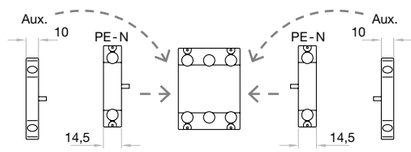






⍁	3P	4P				P	
	A	A	G	J	K	min	max
20 - 40 A	48	48	64	70	25	91	190
63 - 80 A	48	62,5	64	70	25	91	190
125 A	78	78	85	90	38	95	190

Auxiliary contacts
A1



» Other options also available on request:
- Products with customized shaft dimensions
- Terminal shrouds

series ZBK

ZBK
Switch base mounting ø 22 door clutch padlockable handle IP66

6P - 8P

Size 0

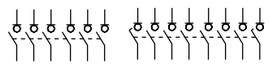
A 25|40|80



	CODE - 25A	CODE - 40A	CODE - 80A
6P	ZBK25VZVHN4A6	ZBK40VZVHN4A6	ZBK80VZVHN4A6
8P	ZBK25VZVHN4A8	ZBK40VZVHN4A8	ZBK80VZVHN4A8
6P	ZBK25VZVH4A6	ZBK40VZVH4A6	ZBK80VZVH4A6
8P	ZBK25VZVH4A8	ZBK40VZVH4A8	ZBK80VZVH4A8

Technical information

CE UL EAC



According to VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1

				25	40	80
Rated thermal current	Ith		A	25	40	80
Rated thermal current enclosed	Ithe		A	25	40	80
Rated insulation voltage	Ui		V	690	690	690
Rated impulse withstand voltage	Uimp		kV	6	6	6
AC rated operational current	Ie	AC21A	A	25	40	80
Making capacity	Ieff	3x380-440V	A	190	300	440
Breaking capacity		3x220-240V	A	180	250	380
		3x380-440V	A	180	250	380
		3X660-690V	A	110	170	220
Direct switching motors	AC3	3x400V	A	16	30	37
	AC3	3x220-240V	kW	4	7,5	11
		3x380-440V	kW	7,5	15	18,5
		3x660-690V	kW	7,5	15	18,5
Main & safety switch	AC23	3x400V	A	20	32	45
	AC23A	3x220-240V	kW	5,5	9	15
	AC23B	3x380-440V	kW	10	16	22
		3x660-690V	kW	7,5	15	18,5
Rated conditional short-circuit current			kAeff	10	10	10
Max. fuse size	gL(gG)		A	35	50	80
Rated short-time withstand current (1sec. current)	Icw		A	300	500	850
Mechanical life			x10³	200	200	100
Connecting capacity						
Solid or stranded cable			mm²	0,5-10		1-25
			AWG	20-8 (10)		16-4 (10)
Flexible cable			mm²	0,5-6		4-16
			AWG	20-10		16-6
Size of terminal screw				M3,5		M5
Tightening torque			Nm	0,8-1,7		2-4

According to UL & cUL FILE NO. E123623

				25	40	80
Rated voltage			V	600	600	600
Ampere-Rating "General use"			A	25	40	80
DOL-Rating 3-phase		110-220V	HP	1,5	2	5
		220-240V	HP	5	5	10
		440-480V	HP	10	10	20
		550-600V	HP	10	15	25
DOL-Rating 1-phase		110-120V	HP	1	1	2
		200-208V	HP	2	2	3
		220-240V	HP	2	3	5
Fuse size (RK5)	Manual Motor Controller		A	50	70	110
5kA / 600V	Motor Disconnect		A	50	50	70
Tightening torque			Nm	1,2-2,3	1,2-2,3	2,8-4
			lb.Inch	11-20	11-20	24-35

series ZBK

Accessories



» Auxiliary contacts

1NO+1NC

A	CODE
25 80	ZBKLH11



1NO+1NC overlapping

A	CODE
25 80	ZBKLH11X





» PE - Terminal

A	CODE
25 80	ZBKPE80V



» N - Terminal

A	CODE	A	CODE
25 40	ZBKN40V	80	ZBKN80V



» N - Fixed neutral

A	CODE
25 80	ZBKPEN80V

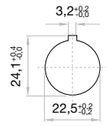
Auxiliary contacts technical information

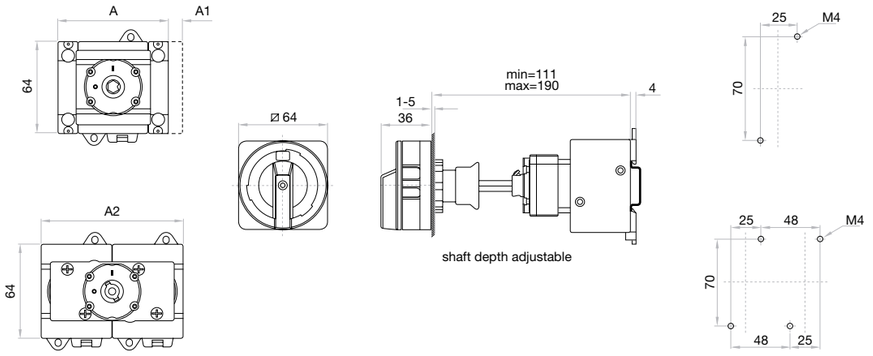
Rated insulation voltage	Ui		V	690
Rated thermal current	Ith - Ithe		A	10
Switching capacity	AC15	220-240V	A	2,5
	AC15	380-440V	A	1,5
Rated conditional short-circuit current			kAeff	3
Max. short circuit protection		gL(gG)	A	10

Connecting capacity		
Solid or stranded cable	mm²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm²	0,75-2,5 (1,5)
	AWG	18-14

Dimensions (mm)

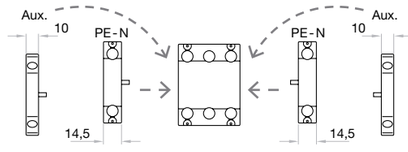
Door drilling for external handle





	6P A	6P A2	8P A2
25 - 40 A	77	-	97
80 A	-	97	126

Auxiliary contacts
A1



» Other options also available on request:
- Products with customized shaft dimensions
- Terminal shrouds

series ZBK

ZBK
Switch & changeover DIN rail mounting modular padlockable handle IP40 3P - 3P+N - 6P - 8P

Size 0
A 20|25|40|63|80|125


Switch

Changeover

		CODE - 20A	CODE - 25A	CODE - 40A	CODE - 63A	CODE - 80A	CODE - 125A
Switch	3P	ZBK20SMAHN1A3	ZBK25SMAHN1A3	ZBK40SMAHN1A3	ZBK63SMAHN1A3	ZBK80SMAHN1A3	ZBK125SMAHN1A3
	3P + N	ZBK20SMAHN1A4	ZBK25SMAHN1A4	ZBK40SMAHN1A4	ZBK63SMAHN1A4	ZBK80SMAHN1A4	ZBK125SMAHN1A4
	3P	ZBK20SMAH1A3	ZBK25SMAH1A3	ZBK40SMAH1A3	ZBK63SMAH1A3	ZBK80SMAH1A3	ZBK125SMAH1A3
	3P + N	ZBK20SMAH1A4	ZBK25SMAH1A4	ZBK40SMAH1A4	ZBK63SMAH1A4	ZBK80SMAH1A4	ZBK125SMAH1A4
	6P	-	ZBK25SMAHN1A6	ZBK40SMAHN1A6	-	ZBK80SMAHN1A6	-
	8P	-	ZBK25SMAHN1A8	ZBK40SMAHN1A8	-	ZBK80SMAHN1A8	-
	6P	-	ZBK25SMAH1A6	ZBK40SMAH1A6	-	ZBK80SMAH1A6	-
	8P	-	ZBK25SMAH1A8	ZBK40SMAH1A8	-	ZBK80SMAH1A8	-
Changeover	3P + N	ZBK20SMAH1U4	ZBK25SMAH1U4	ZBK40SMAH1U4	ZBK63SMAH1U4	-	-

Bridging links included

Technical information

According to VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1

				3P	3P + N	6P		8P		3P + N
				20	25	40	63	80	125	
Rated thermal current	Ith		A	20	25	40	63	80	125	
Rated thermal current enclosed	Ithe		A	20	25	40	63	80	110	
Rated insulation voltage	Ui		V	690	690	690	690	690	1000	
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	8	
AC rated operational current	Ie	AC21A	A	20	25	40	63	80	125	
Making capacity	Ieff	3x380-440V	A	160	190	300	370	440	850	
Breaking capacity		3x220-240V	A	160	180	250	330	380	680	
		3x380-440V	A	160	180	250	330	380	680	
		3X660-690V	A	80	110	170	190	220	420	
Direct switching motors	AC3	3x400V	A	12	16	30	37	37	72	
	AC3	3x220-240V	kW	3	4	7,5	11	11	22	
		3x380-440V	kW	5,5	7,5	15	18,5	18,5	37	
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	30	
Main & safety switch	AC23	3x400V	A	16	20	32	45	45	85	
	AC23A	3x220-240V	kW	4	5,5	9	15	15	30	
	AC23B	3x380-440V	kW	7,5	10	16	22	22	45	
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	37	
Rated conditional short-circuit current			kAeff	10	10	10	10	10	10	
Max. fuse size	gL(gG)		A	25	35	50	63	80	125	
Rated short-time withstand current (1sec. current)	Icw		A	250	300	500	600	850	1500	
Mechanical life			x10³	200	200	200	100	100	100	
Connecting capacity										
Solid or stranded cable			mm²		0,5-10		1-25 *(1)		4-50	
			AWG		20-8 (10)		16-4 (10)		10-0 (10)	
Flexible cable			mm²		0,5-6		4-16 *(1)		10-35	
			AWG		20-10		16-6		8-2	
Size of terminal screw					M3,5		M5		M6	
Tightening torque			Nm		0,8-1,7		2-4		3,5-4,5	

According to UL & cUL FILE NO. E123623

				20	25	40	63	80	125
Rated voltage			V	600	600	600	600	600	600
Ampere-Rating "General use"			A	20	25	40	63	80	125
DOL-Rating 3-phase		110-220V	HP	1	1,5	2	3	5	15
		220-240V	HP	3	5	5	10	10	30
		440-480V	HP	7,5	10	10	20	20	60
		550-600V	HP	10	10	15	25	25	60
DOL-Rating 1-phase		110-120V	HP	1	1	1	2	2	7,5
		200-208V	HP	1	2	2	3	3	10
		220-240V	HP	2	2	3	5	5	15
Fuse size (RK5)	Manual Motor Controller		A	40	50	70	90	110	125
5kA / 600V	Motor Disconnect		A	40	50	50	70	70	125
Tightening torque			Nm	1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5
			lb.Inch	11-20	11-20	11-20	24-35	24-35	15-40

*(1) ZBK63___U trenzado 16 mm² / flexible 10 mm²

series ZBK

Accessories



>> Auxiliary contacts

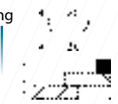
1NO+1NC

A	CODE
20 125	ZBKLH11



1NO+1NC overlapping

A	CODE
20 125	ZBKLH11X





>> PE - Terminal

A	CODE	A	CODE
20 80	ZBKPE80V	125	ZBKLTXX-E/V



>> N - Fixed neutral

A	CODE	A	CODE
20 80	ZBKPEN80V	125	ZBKLTXX-N/V

Auxiliary contacts technical information

Rated insulation voltage	Ui		V	690
Rated thermal current	Ith - Ithe		A	10
Switching capacity	AC15	220-240V	A	2,5
	AC15	380-440V	A	1,5
Rated conditional short-circuit current			kAeff	3
Max. short circuit protection		gL(gG)	A	10

Connecting capacity		
Solid or stranded cable	mm²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm²	0,75-2,5 (1,5)
	AWG	18-14

Dimensions (mm)

Switch



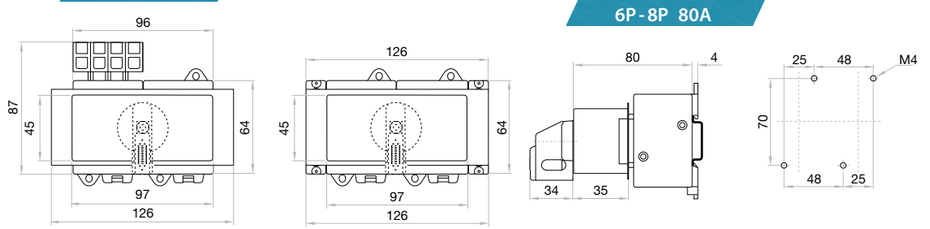
	3P A	4P A	B	C	G	J	K	N
20 - 40 A	48	48	30	12	64	70	25	52
63 - 80 A	48	62,5	30	12	64	70	25	52
125 A	78	78	35	10	85	90	38	78

3P - 4P 20 - 125A

6P 25 - 40A

8P 25 - 40A
6P - 8P 80A

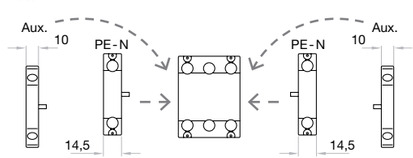
Changeover



20 - 40A

63A

Auxiliary contacts



>> Other options also available on request:
- Terminal shrouds
- Changeoveres de 3P

series ZBK

ZBK
Switch plastic enclosure padlockable handle IP65 3P - 3P+N - 6P - 8P

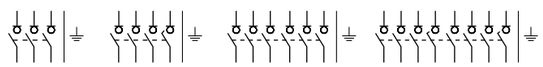
Size 0

A 20|25|40|63|80|125



	CODE - 20A	CODE - 25A	CODE - 40A	CODE - 63A	CODE - 80A	CODE - 125A
3P	ZBK20PFHN4A3	ZBK25PFHN4A3	ZBK40PFHN4A3	ZBK63PFHN4A3	ZBK80PFHN4A3	ZBK125PFHN4A3
3P + N	ZBK20PFHN4A4	ZBK25PFHN4A4	ZBK40PFHN4A4	ZBK63PFHN4A4	ZBK80PFHN4A4	ZBK125PFHN4A4
6P	-	ZBK25PFHN4A6	ZBK40PFHN4A6	-	ZBK80PFHN4A6	-
8P	-	ZBK25PFHN4A8	ZBK40PFHN4A8	-	ZBK80PFHN4A8	-

Technical information



According to VDE 0660, IEC/EN 60947-3, IEC/EN 60947-5-1

				20	25	40	63	80	125
Rated thermal current	Ith		A	20	25	40	63	80	125
Rated thermal current enclosed	Ithe		A	20	25	40	63	80	110
Rated insulation voltage	Ui		V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp		kV	6	6	6	6	6	8
AC rated operational current	Ie	AC21A	A	20	25	40	63	80	125
Making capacity	Ieff	3x380-440V	A	160	190	300	370	440	850
Breaking capacity		3x220-240V	A	160	180	250	330	380	680
		3x380-440V	A	160	180	250	330	380	680
		3X660-690V	A	80	110	170	190	220	420
Direct switching motors	AC3	3x400V	A	12	16	30	37	37	72
	AC3	3x220-240V	kW	3	4	7,5	11	11	22
		3x380-440V	kW	5,5	7,5	15	18,5	18,5	37
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	30
Main & safety switch	AC23	3x400V	A	16	20	32	45	45	85
	AC23A	3x220-240V	kW	4	5,5	9	15	15	30
	AC23B	3x380-440V	kW	7,5	10	16	22	22	45
		3x660-690V	kW	5,5	7,5	15	18,5	18,5	37
Rated conditional short-circuit current			kAeff	10	10	10	10	10	10
Max. fuse size	gL(gG)		A	25	35	50	63	80	125
Rated short-time withstand current (1sec. current)	Icw		A	250	300	500	600	850	1500
Mechanical life			x10³	200	200	200	100	100	100
Connecting capacity									
Solid or stranded cable			mm²	0,5-10			1-25 *(1)		4-50
			AWG	20-8 (10)			16-4 (10)		10-0 (10)
Flexible cable			mm²	0,5-6			4-16 *(1)		10-35
			AWG	20-10			16-6		8-2
Size of terminal screw				M3,5			M5		M6
Tightening torque			Nm	0,8-1,7			2-4		3,5-4,5

According to UL & cUL FILE NO. E123623

				20	25	40	63	80	125
Rated voltage			V	600	600	600	600	600	600
Ampere-Rating "General use"			A	20	25	40	63	80	125
DOL-Rating 3-phase		110-220V	HP	1	1,5	2	3	5	15
		220-240V	HP	3	5	5	10	10	30
		440-480V	HP	7,5	10	10	20	20	60
		550-600V	HP	10	10	15	25	25	60
DOL-Rating 1-phase		110-120V	HP	1	1	1	2	2	7,5
		200-208V	HP	1	2	2	3	3	10
		220-240V	HP	2	2	3	5	5	15
Fuse size (RK5)	Manual Motor Controller		A	40	50	70	90	110	125
5kA / 600V	Motor Disconnect		A	40	50	50	70	70	125
Tightening torque			Nm	1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5
			lb.Inch	11-20	11-20	11-20	24-35	24-35	15-40

*(1) ZBK63___U trenzado 16 mm² / flexible 10 mm²

series ZBK

Accessories



» Auxiliary contacts

1NO+1NC

A	CODE
20 125	ZBKLH11

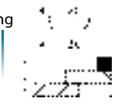




» Auxiliary contacts

1NO+1NC overlapping

A	CODE
20 125	ZBKLH11X

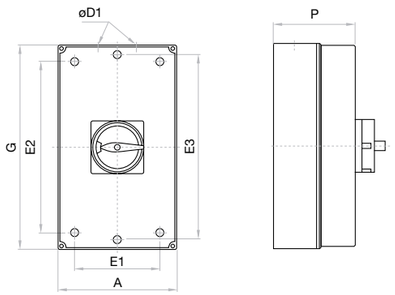


Auxiliary contacts technical information

Rated insulation voltage	Ui		V	690
Rated thermal current	Ith - Ithe		A	10
Switching capacity	AC15	220-240V	A	2,5
	AC15	380-440V	A	1,5
Rated conditional short-circuit current			kAeff	3
Max. short circuit protection		gL(gG)	A	10

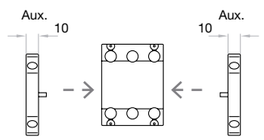
Connecting capacity		
Solid or stranded cable	mm²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm²	0,75-2,5 (1,5)
	AWG	18-14

Dimensions (mm)



		A	D1	E1	E2	E3	G	P
20 - 40 A	**3/4P**	98	2 x 25,5/20,5	-	-	120	130	77
63 - 125 A	**3/4P**	120	40,5/32,5 + 16,5	90	188	-	200	86
25 - 40 A	**6P**	120	40,5/32,5 + 16,5	90	188	-	200	86
25 - 40 A	**8P**	160	40,5/32,5	130	228	-	240	120
80 A	**6/8P**	160	40,5/32,5	130	228	-	240	120

Auxiliary contacts



» Other options also available on request:
- Changeovers
- Black/grey handle

series S5|S5M | series S6 | series CIS

AC
Switch - disconnectors

Switch - disconnectors with high operating load capacity and a high level disconnection insulation; high reliability and safety in abnormal situations, available in different construction models, with a wide range of currents and several accessories.

According to:
IEC/EN 60947-3
IEC/EN 61439-1
RoHS

Testing and approvals:



The switch - disconnectors in its different series, are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a sandwich-type body containing self-cleaning blade type contacts, with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life. The detent mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

Functional and ergonomic handle

- Good grip and excellent torque/ resistance
- Padlockable handle in **O OFF** position (up to three locks Ø 5-8 mm)
- Door interlock in **ON I** position
- When lock in **O OFF** position, door is interlocked
- Defeteable feature in **ON I** position (with the use of a tool for maintenance operations). Handle interlock is restored when closing
- Self-centering shaft for door handle



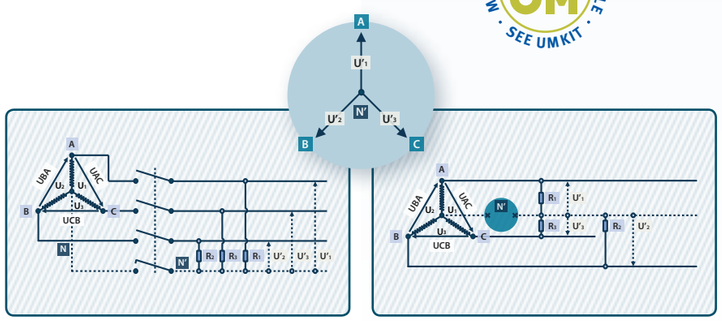
MOTORIZED KIT AVAILABLE · KIT UM · SEE UMKIT ·

Neutral pole early make & late break

N
N

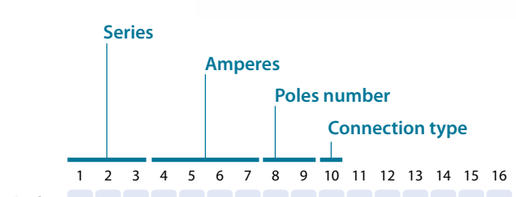
This safety feature prevents accidental overvoltage when making/breaking of loads connected between phase and neutral.

Due to the design in our 3P+N switch - disconnectors and changeover switches, the neutral contact closes before the main phases and opens later, thus ensuring this operation mode.



Range coding:

The S5|S5M|S6 series, are identified by a code that describes their most important characteristics as described below



series S5



1 2 3 4 5 6
S 5 -

Wide range of currents.
Base mounting with screws.
Switching under load up to 1000 Vac (inductive and capacitive).
Breaking current up to 8 times the operational current.
Able to establish and withstand short-circuit currents up to 100kA.
External or direct handles.

series S5M



1 2 3 4 5 6
S 5 M

Back to back arrangement to increase the number of available contacts between 6 or 8.
Base mounting with screws.
External or direct handles.

series S6



1 2 3 4 5 6
S 6 -

Switch - disconnectors with housings for 2P - 3P or 3P+N.
Base mounting with screws.
External or direct handles.
Wide range of devices and accesories.

series CIS25D



1 2 3 4 5 6 7
C I S 2 5 D

S5000 polyester enclosed switch.
External padlockable handle with locking cover in ON I position.
Removing cover blocked by padlock when handle is in 0 OFF position.

series CIS25C



1 2 3 4 5 6 7
C I S 2 5 C

S5000 metal enclosed switch.
External padlockable handle with locking door in ON I position.
Door opening blocked by padlock when handle is in 0 OFF position.

series CIS25A



1 2 3 4 5 6 7
C I S 2 5 A

S5000 polyester enclosed switch and fuse holders.
External padlockable handle with locking cover in ON I position.
Removing cover blocked by padlock when handle is in 0 OFF position.

series CIS25F



1 2 3 4 5 6 7
C I S 2 5 F

S5000 metal enclosed switch and fuse holders.
External padlockable handle with locking door in ON I position.
Door opening blocked by padlock when handle is in 0 OFF position.

series S5

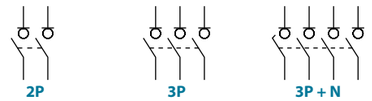
S5000 AC
Switch - disconnector base mounting 2P - 3P - 3P+N

Size 00

A 40|63|80



	CODE - 40A	CODE - 63A	CODE - 80A
2P	S5-00402PB0	S5-00632PB0	S5-00802PB0
3P	S5-00403PB0	S5-00633PB0	S5-00803PB0
3P + N	S5-00403NB0	S5-00633NB0	S5-00803NB0



Technical information

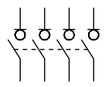
tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

consult BUREAU VERITAS

According to IEC / EN 60947-3

					40	63	80
Rated thermal current in ambient at	Ith	40 °C		A	50	63	80
		50 °C		A	50	63	80
		60 °C		A	40	63	64
Rated insulation voltage	Ui			V	800	800	800
Rated dielectric strength	50 Hz., 1 min.			V	3500	3500	3500
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	50	63	80
		Ue 400V	AC22A	A	50	63	80
		Ue 400V	AC23A	A	50	63	63
		Ue 500V	AC21A	A	50	63	80
		Ue 500V	AC22A	A	50	63	63
		Ue 500V	AC23A	A	40	50	50
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	27,7	34,9	34,9
Rated capacitor power		400V, sen φ = 0,65		kVAr	22,5	28,3	28,3
Rated breaking capacity		400V	AC23A	A	400	504	504
Rated making capacity		400V	AC23A	A	500	630	630

			40	63	80
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	5	5	5
Rated short-time withstand current (1sec.)	Icw	kA rms	3	3	3
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	10	10	10
Maximum power dissipation (I^2 t)		A^2s (x10^3)	54,7	54,7	54,7
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	30000	30000	30000
Maximum weight		Kg	0,4	0,4	0,4



Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series S5

Accessories



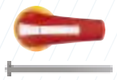
Direct handle
CODE DS-SI01



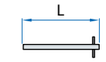
External handle included shaft *(e1)
IP65
CODE DS-SA01



External handle without shaft
IP65
CODE DS-SA03



Emergency external handle included shaft *(e1)
IP65
CODE DS-SR01



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
177	85... 195,5

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
250	85... 278	DS-EP04

Type 2

L (mm)	P (mm)	CODE
387	85... 415	DS-EP05



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

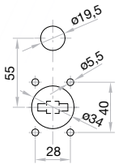


Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

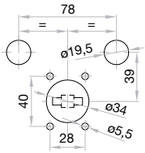
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

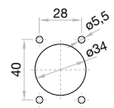


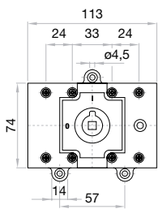
Double

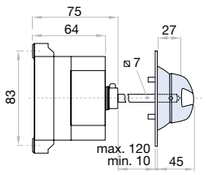


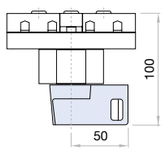
Dimensions (mm)

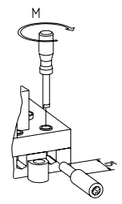
Door drilling for external handle











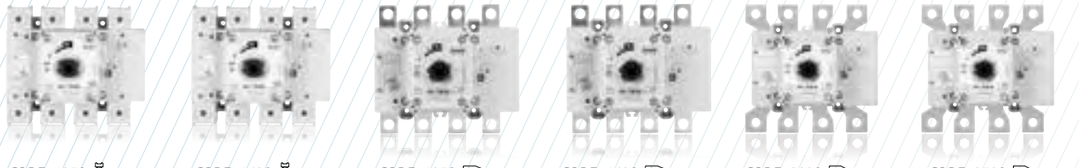
S max (Cu)	M
mm^2	Nxm
25	2

series S5

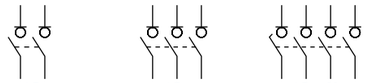
S5000 AC
Switch - disconnector base mounting 2P - 3P - 3P+N

Size 0

A 125|160|200|250



	CODE - 125A	CODE - 160A	CODE - 125A	CODE - 160A	CODE - 200A	CODE - 250A
2P	S5-01252PB0	S5-01602PB0	S5-01252PS0	S5-01602PS0	S5-02002PS0	S5-02502PD0
3P	S5-01253PB0	S5-01603PB0	S5-01253PS0	S5-01603PS0	S5-02003PS0	S5-02503PD0
3P + N	S5-01253NB0	S5-01603NB0	S5-01253NS0	S5-01603NS0	S5-02003NS0	S5-02503ND0



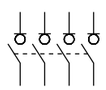
Technical information

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

				125	160	200	250
Rated thermal current Ith in ambient at		40 °C	A	125	160	200	250
		50 °C	A	125	160	200	250
		60 °C	A	125	160	200	200
Rated insulation voltage	Ui		V	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.		V	4000	4000	4000	5000
Rated impulse withstand voltage	Uimp		kV	8	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V AC21A	A	125	160	200	250
		Ue 400V AC22A	A	125	160	200	250*(6)
		Ue 400V AC23A	A	125	160	160	160
		Ue 500V AC21A	A	125	160	200	200
		Ue 500V AC22A	A	125	160	200	200
		Ue 500V AC23A	A	100	125	125	125
AC rated operational power *(2)	Pe	3x400V AC23A	kW	69,2	88,6	88,6	88,6
Rated capacitor power		400V, sen φ = 0,65	kVAr	56,2	72	72	72
Rated breaking capacity		400V AC23A	A	1000	1280	1280	1280
Rated making capacity		400V AC23A	A	1250	1600	1600	1600

			125	160	200	250
Short - circuit behaviour						
Rated short-circuit making capacity *(3)	Icm	kA (peak)	13	13	13	13
Rated short-time withstand current (1sec.)	Icw	kA rms	7	7	7	7
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100	100
Maximum cut - off current (peak value)		kA (peak)	17	20	20	20
Maximum power dissipation ($I^2 t$)		A^2s (x10^3)	55	198	198	198
Mechanical features						
Minimun number of mechanical operations *(5)		Cycles	30000	30000	30000	30000
Maximum weight 3P		Kg	0,85	0,85	0,9	0,9
Maximum weight 3P + N		Kg	1	1	1	1



Also available 4P switches under request, consult reference

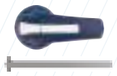
*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations
*(6) Rated operational current AC22B

series S5

Accessories



Direct handle
CODE DS-SI01



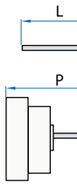
External handle included shaft *(e1)
IP65
CODE DS-SA01



External handle without shaft
IP65
CODE DS-SA03



Emergency external handle included shaft *(e1)
IP65
CODE DS-SR01



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
177	87... 197,5

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
250	87... 278	DS-EP04

Type 2

L (mm)	P (mm)	CODE
387	87... 415	DS-EP05



Terminal protection
CODE DS-CU01
(1 unit for input or output)



DIN rail mounting
CODE DS-DN01
(1 kit for 125-160A switches)



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

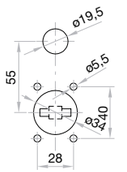


Safety key lock device
Simple CODE DS-CAB1
Double CODE DS-CEB1

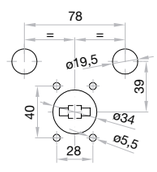
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

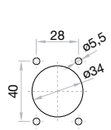


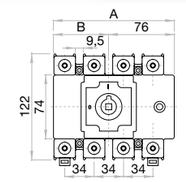
Double

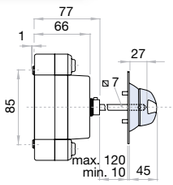


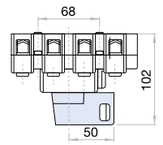
Dimensions (mm)

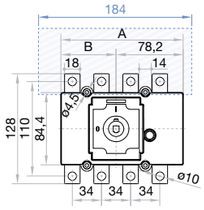
Door drilling for external handle

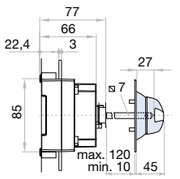


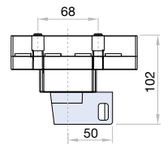


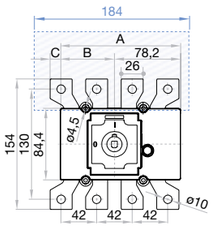


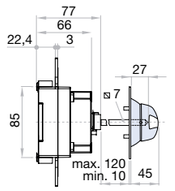


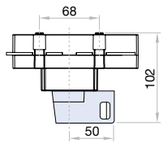


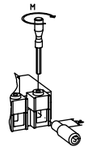




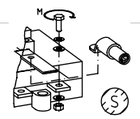




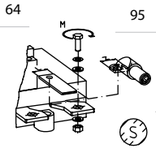




	A			B			S max (Cu)	M
	2P	3P	4P	2P	3P	4P	mm²	Nxm
125 A 160 A	129	129	140	53	53	64	95	4



	A			B			S max (Cu)	H max (Cu)	L max (Cu)		M
	2P	3P	4P	2P	3P	4P	mm²	mm	mm		Nxm
125 A 160 A	131	131	142	53	53	64	95	5	25	M8	13



	A			B			C	S max (Cu)	Z max	H max (Cu)	L max (Cu)		M
	2P	3P	4P	2P	3P	4P	4P	mm²		mm	mm		Nxm
200 A 250 A	131	131	142	53	53	64	11,8	120	30	5	30	M10	18

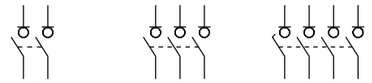
series S5

S5000 AC
Switch - disconnector base mounting 2P - 3P - 3P+N

Size 1
A 250|315|400



	CODE - 250A	CODE - 315A	CODE - 400A
2P	S5-02502PR0	S5-03152PR0	S5-04002PC0
3P	S5-02503PR0	S5-03153PR0	S5-04003PC0
3P + N	S5-02503NR0	S5-03153NR0	S5-04003NC0



Technical information

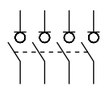
consult consult

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

				250	315	400
Rated thermal current in ambient at	Ith	40 °C	A	250	315	400
		50 °C	A	250	315	400
		60 °C	A	250	315	320
Rated insulation voltage	Ui		V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.		V	5000	5000	5000
Rated impulse withstand voltage	Uimp		kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V AC21A	A	250	315	400
		Ue 400V AC22A	A	250	315	400
		Ue 400V AC23A	A	250	315	400
		Ue 500V AC21A	A	250	315	400
		Ue 500V AC22A	A	250	315	400
		Ue 500V AC23A	A	200	250	315
AC rated operational power *(2)	Pe	3x400V AC23A	kW	138,5	174,5	221,7
Rated capacitor power		400V, sen φ = 0,65	kVAr	112,5	141,8	180,1
Rated breaking capacity		400V AC23A	A	2000	2520	3200
Rated making capacity		400V AC23A	A	2500	3150	4000

			250	315	400
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	20	20	20
Rated short-time withstand current (1sec.)	Icw	kA rms	12	12	12
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	33	33	33
Maximum power dissipation ($I^2 t$)		A^2s (x10^3)	1000	1000	1000
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	20000	20000	20000
Maximum weight 3P		Kg	1,7	1,7	1,9
Maximum weight 3P + N		Kg	1,9	1,9	2,1



Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series S5

Accessories



Direct handle
CODE DS-SI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-SA11

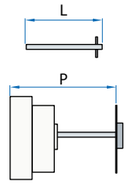


External handle without shaft
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-SA14



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-SR11

Shafts



Standard shaft included *(e1)

L (mm)	P (mm)
227	103... 256

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
375	103... 415	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	103... 576	DS-EP15



Terminal protection
CODE DS-CU12
(1 unit for input or output)



Terminal shrouds
CODE DS-CU11
(1 kit for input or output)



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

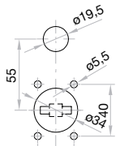


Safety key lock device
Simple CODE DS-CA11
Double CODE DS-CE11

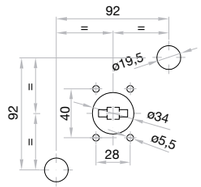
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

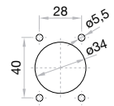


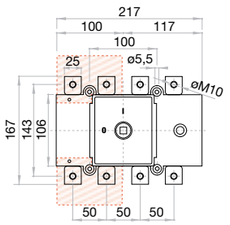
Double

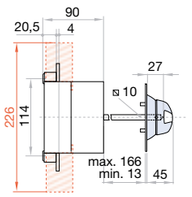


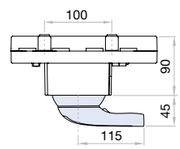
Dimensions (mm)

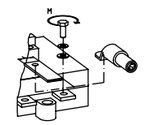
Door drilling for external handle



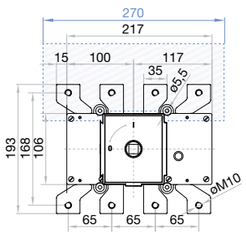


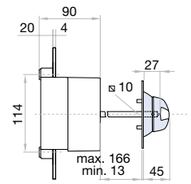


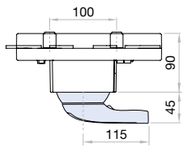


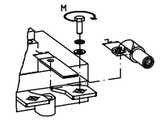


	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
250 A 315 A	185	7	25	M10	18









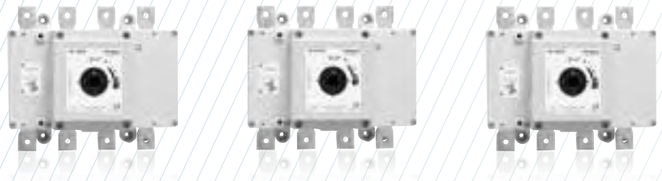
	S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm		M Nxm
400 A	240	44	7	40	M10	24

series S5

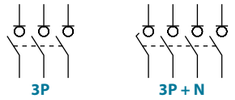
S5000 AC
Switch - disconnector base mounting 3P - 3P+N

Size 2

A 500|630|800



	CODE - 500A	CODE - 630A	CODE - 800A
3P	S5-05003PR0	S5-06303PR0	S5-08003PC0
3P + N	S5-05003NR0	S5-06303NR0	S5-08003NC0



Technical information

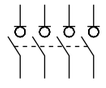
tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

					500	630	800
Rated thermal current in ambient at	Ith		40 °C	A	500	630	800
			50 °C	A	500	630	720
			60 °C	A	500	630	640
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	500	630	800
		Ue 400V	AC22A	A	500	630	800
		Ue 400V	AC23A	A	500	630	800
		Ue 500V	AC21A	A	500	630	800
		Ue 500V	AC22A	A	500	630	800
		Ue 500V	AC23A	A	400	500	500
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	277,1	349,1	443,4
Rated capacitor power		400V, sen φ = 0,65		kVAr	225,1	283,7	360,2
Rated breaking capacity		400V	AC23A	A	4000	5000	6400
Rated making capacity		400V	AC23A	A	5000	6300	8000

			500	630	800
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	26	26	26
Rated short-time withstand current (1sec.)	Icw	kA rms	16	16	16
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	39	39	39
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	1600	1600	1600
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	10000	10000	10000
Maximum weight 3P		Kg	4,2	4,2	4,2
Maximum weight 3P + N		Kg	4,5	4,5	4,5

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations



Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series S5

Accessories



Direct handle
CODE DS-LI21



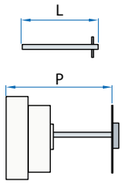
External handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-LA21



External handle without shaft
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-LA24



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-LR21



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
195	134... 240

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	134... 400	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	134... 560	DS-EP24



Terminal protection
CODE DS-CU22
(1 unit for input or output)



Terminal shrouds
CODE DS-CU21
(1 kit for input or output)



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

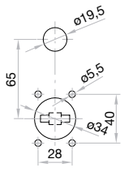


Safety key lock device
Simple CODE DS-CB21
Double CODE DS-CF21

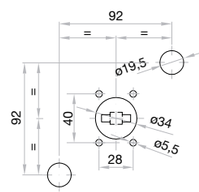
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

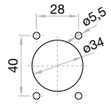


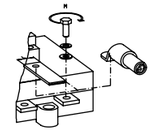
Double

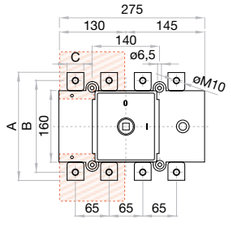


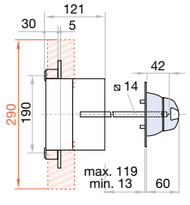
Dimensions (mm)

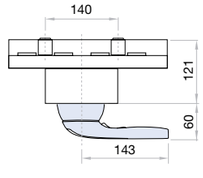
Door drilling for external handle



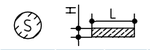








	A	B	C
500 A	220	190	25
630 A 800 A	235	205	30



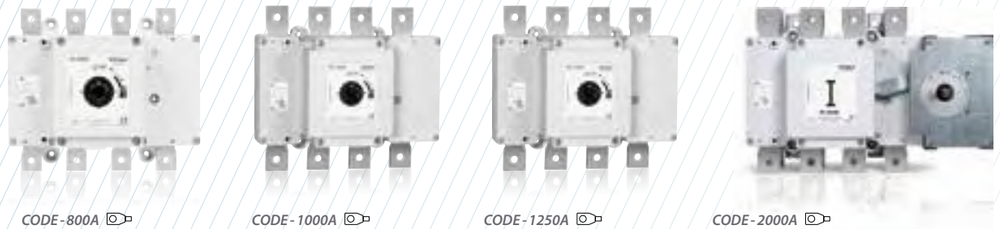
S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x185	6	40	M10	24
2x240	2x5	40 50		

series S5

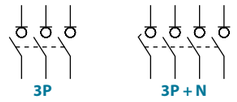
S5000 AC
Switch - disconnector base mounting 3P - 3P+N

Size 3

A 800|1000|1250|2000



	CODE - 800A	CODE - 1000A	CODE - 1250A	CODE - 2000A
3P	S5-08003PR0	S5-10003PC0	S5-12503PC0	S5-20003PC0
3P + N	S5-08003NR0	S5-10003NC0	S5-12503NC0	S5-20003NC0



Technical information

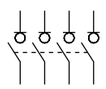
CE IEC IECEE consult EAC IEL consult CCC consult

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

					800	1000	1250	2000
Rated thermal current Ith in ambient at			40 °C	A	800	1000	1250	2000
			50 °C	A	800	1000	1125	1800
			60 °C	A	800	900	900	1600
Rated insulation voltage	Ui			V	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	800	1000	1250	2000
		Ue 400V	AC22A	A	800	1000	1250	2000*(6)
		Ue 400V	AC23A	A	800	1000	1000	1400*(6)
		Ue 500V	AC21A	A	800	1000	1250	2000
		Ue 500V	AC22A	A	800	1000	1000	2000*(6)
		Ue 500V	AC23A	A	800	800	800	1250*(6)
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	443,4	554,2	554,2	775,9
Rated capacitor power		400V, sen φ = 0,65		kVAr	360,2	450,3	450,3	630,4
Rated breaking capacity		400V	AC23A	A	6400	8000	8000	11200
Rated making capacity		400V	AC23A	A	8000	10000	10000	14000

			800	1000	1250	2000
Short - circuit behaviour						
Rated short-circuit making capacity *(3)	Icm	kA (peak)	60	60	60	80
Rated short-time withstand current (1sec.)	Icw	kA rms	25	25	25	38
Conditional short - circuit current (rms value) *(4)		kA rms	72	72	72	-
Maximum cut - off current (peak value)		kA (peak)	55	55	55	-
Maximum power dissipation ($I^2 t$)		A^2s (x10^3)	4900	4900	4900	-
Mechanical features						
Minimun number of mechanical operations *(5)		Cycles	10000	10000	10000	10000
Maximum weight 3P		Kg	7	7	7	18,5
Maximum weight 3P + N		Kg	7,6	7,6	7,6	20



Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations
*(6) Rated operational current AC22B

MOTORIZED KIT AVAILABLE KIT UM SEE UMKIT

series S5

Accessories



Direct handle
CODE DS-LI31
CODE DS-LI41 (2000 A)



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA31
CODE DS-LA41 (2000 A)

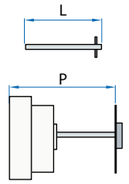


External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA33 (for 800-1000-1250A)



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR31
CODE DS-LR41 (2000 A)

Shafts



Standard shaft included *(e1)

	L (mm)	P (mm)
	186	145... 242
(2000 A)	239	145... 242

Shaft extensions

Type 1

	L (mm)	P (mm)	CODE
	345	145... 411	DS-EP23
(2000 A)	485	145... 244	DS-EP44

Type 2

	L (mm)	P (mm)	CODE
	535	145... 600	DS-EP24
(2000 A)	635	145... 600	DS-EP45



Terminal shrouds
CODE DS-CU31
(1 kit for input or output
2000 A on frontal switch only)



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02
1NO+1NC CODE DS-AU11 (2000 A)
2NO+2NC CODE DS-AU12 (2000 A)

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

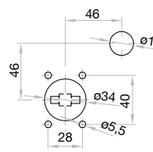


Safety key lock device
Simple CODE DS-CB31
Double CODE DS-CF31

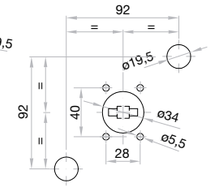
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

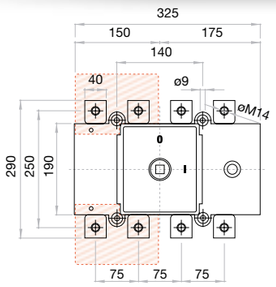
Simple

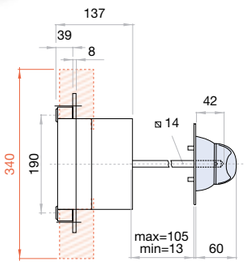


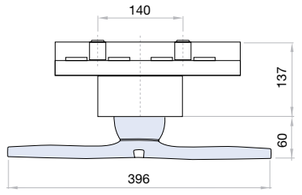
Double



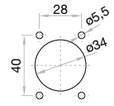
Dimensions (mm)

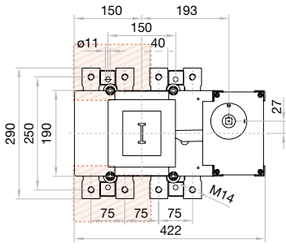


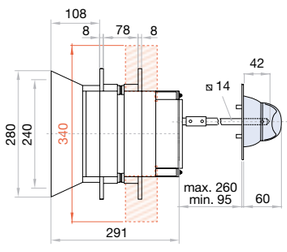


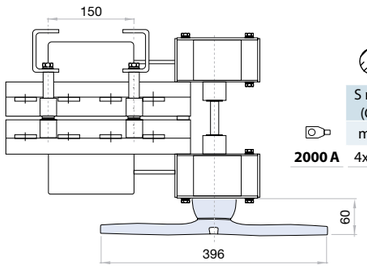


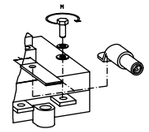
Door drilling for external handle



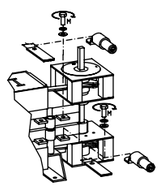








	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
800 A	2x240				
1000 A **1250 A**	2x300	2x10	50	M14	45



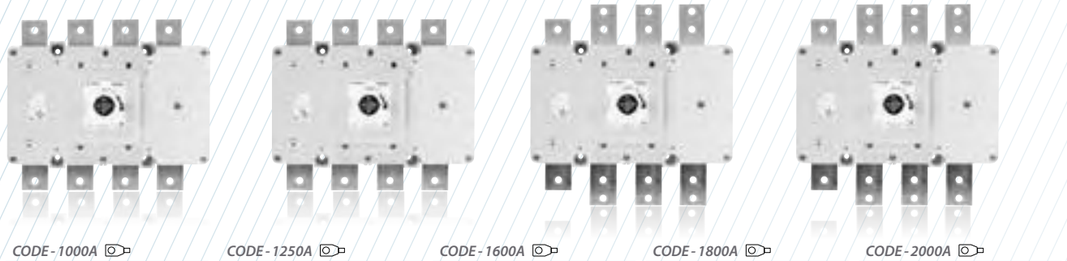
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
2000 A	4x300	4x10	50	M14	45

series S5

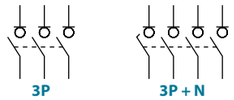
S5000 AC
Switch - disconnector base mounting 3P - 3P+N

Size 4

A 1000|1250|1600|1800|2000



	CODE - 1000A	CODE - 1250A	CODE - 1600A	CODE - 1800A	CODE - 2000A
3P	S5-10003PS0	S5-12503PS0	S5-16003PS0	S5-18003PS0	S5-20003PD0
3P + N	S5-10003NS0	S5-12503NS0	S5-16003NS0	S5-18003NS0	S5-20003ND0



Technical information

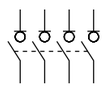
tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

					1000	1250	1600	1800	2000
Rated thermal current in ambient at	Ith	40 °C	A		1000	1250	1600	1800	2000
		50 °C	A		1000	1250	1600	1620	1800
		60 °C	A		1000	1000	1440	1440	1600
Rated insulation voltage	Ui		V		1000	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.		V		10000	10000	10000	10000	10000
Rated impulse withstand voltage	Uimp		kV		12	12	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	1000	1250	1600	1800	2000
		Ue 400V	AC22A	A	1000	1250	1600	1800	2000
		Ue 400V	AC23A	A	1000	1000	1000	1250	1250
		Ue 500V	AC21A	A	1000	1250	1600	1800	2000
		Ue 500V	AC22A	A	1000	1000	1250	1600	1800
		Ue 500V	AC23A	A	800	800	900	1000*(5)	1000*(5)

					1000	1250	1600	1800	2000
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	554,2	554,2	554,2	692,8	692,8
Rated capacitor power		400V, sen φ = 0,65		kVAr	450,3	450,3	450,3	562,9	562,9
Rated breaking capacity		400V	AC23A	A	8000	8000	8000	10000	10000
Rated making capacity		400V	AC23A	A	10000	10000	10000	12500	12500
Short - circuit behaviour									
Rated short-circuit making capacity *(3)			Icm	kA (peak)	60	60	75	75	75
Rated short-time withstand current (1sec.)			Icw	kA rms	25	25	50	50	50
Mechanical features									
Minimun number of mechanical operations *(4)				Cycles	10000	10000	4500	4500	4500
Maximum weight 3P				Kg	18,5	18,5	18,5	18,5	18,5
Maximum weight 3P + N				Kg	20,8	20,8	20,8	20,8	20,8

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) Please consult us for more operations
*(5) Rated operational current AC22B



4P

Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series S5

Accessories



Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR41



Terminal shrouds
CODE DS-CU41
(1 kit for input or output)



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

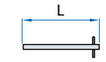
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Safety key lock device
Simple CODE DS-CB41
Double CODE DS-CF41

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Shafts



Standard shaft included *(e1)

L (mm)	P (mm)
239	235... 400

Shaft extensions

Type 1

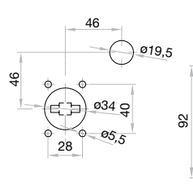
L (mm)	P (mm)	CODE
485	235... 686	DS-EP44

Type 2

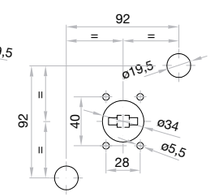
L (mm)	P (mm)	CODE
635	235... 836	DS-EP45

Door drilling for handle and keylock device

Simple

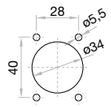


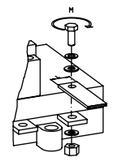
Double

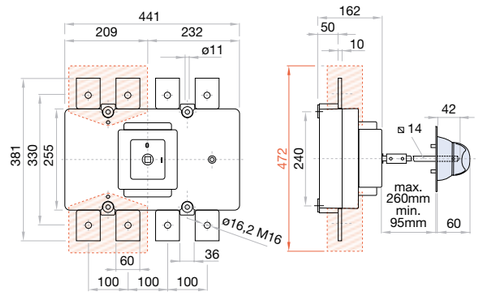


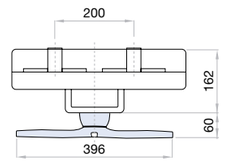
Dimensions (mm)

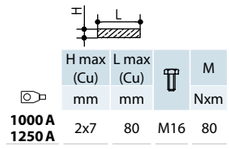
Door drilling for external handle



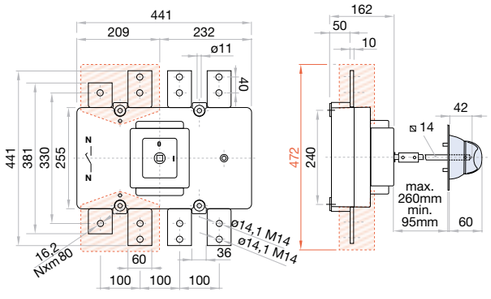


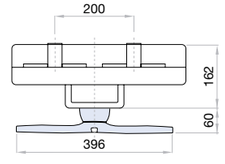


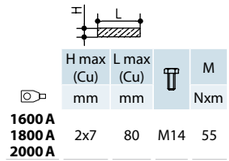




	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1000 A 1250 A	2x7	80	M16	80







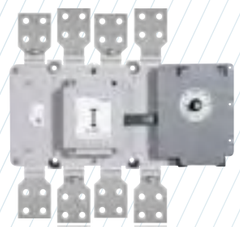
	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1600 A 1800 A 2000 A	2x7	80	M14	55

series S5

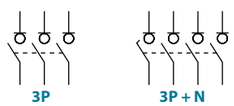
S5000 AC
Switch - disconnector base mounting 3P - 3P+N

Size 5

A 2000|2500|3150



	CODE - 2000A	CODE - 2500A	CODE - 3150A
3P	S5-20003PP0	S5-25003PP0	S5-31503PP0
3P + N	S5-20003NP0	S5-25003NP0	S5-31503NP0



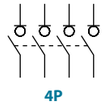
Technical information

According to IEC / EN 60947-3

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

					2000	2500	3150
Rated thermal current in ambient at	Ith		40 °C	A	2000	2500	3150
			50 °C	A	2000	2500	2835
			60 °C	A	2000	2500	2520
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	2000	2500	3150
		Ue 400V	AC22A	A	2000	2500	2500*(5)
		Ue 400V	AC23A	A	1600	1800	2000*(5)
		Ue 500V	AC21A	A	2000	2500	3150
		Ue 500V	AC22A	A	2000*(5)	2200*(5)	2200*(5)
		Ue 500V	AC23A	A	1250	1600*(5)	1600*(5)

				2000	2500	3150
AC rated operational power *(2)	Pe 3x400V	AC23A	kW	886,8	997,6	1108,5
Rated capacitor power	400V, sen φ = 0,65		kVAr	720,5	810,5	900,6
Rated breaking capacity	400V	AC23A	A	12800	14400	16000
Rated making capacity	400V	AC23A	A	16000	18000	20000
Short - circuit behaviour						
Rated short-circuit makin g capacity *(3)	Icm		kA (peak)	100	100	100
Rated short-time withstand current (1sec.)	Icw		kA rms	50	50	50
Mechanical features						
Minimun number of mechanical operations *(4)			Cycles	2500	2500	2500
Maximum weight 3P			Kg	50	50	50
Maximum weight 3P + N			Kg	58	58	58



Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) Please consult us for more operations
*(5) Rated operational current AC22B

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series S5

Accessories



Direct handle
CODE DS-LI41



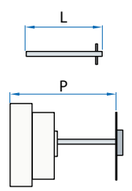
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR41



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	420... 580



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

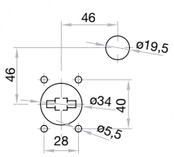


Safety key lock device
Simple CODE DS-CB41
Double CODE DS-CF41

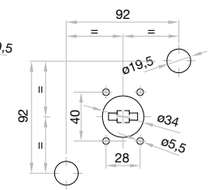
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

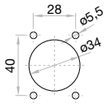


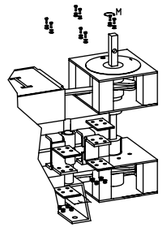
Double

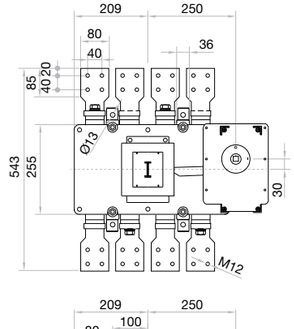


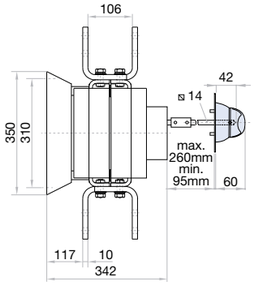
Dimensions (mm)

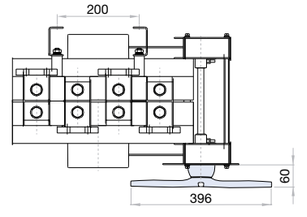
Door drilling for external handle

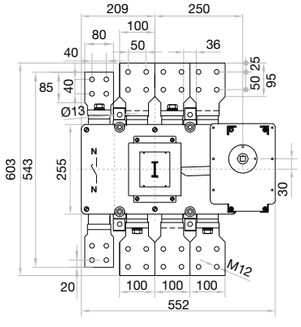


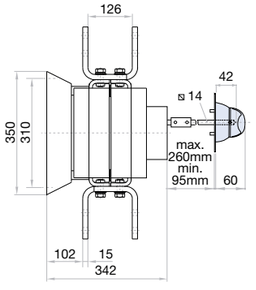


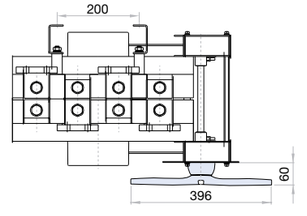














	H max (Cu) mm	L max (Cu) mm		M Nxm
2000 A 2500 A	4x10	80	M12	45



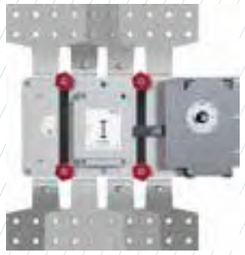
	H max (Cu) mm	L max (Cu) mm		M Nxm
3150 A	4x10	100	M12	45

series S5

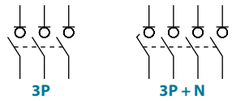
S5000 AC
Switch - disconnector base mounting 3P - 3P+N

Size 6

A 4000|5000|6300



	CODE-4000A	CODE-5000A	CODE-6000A
3P	S5-40003PP0	S5-50003PP0	S5-60003PP0
3P + N	S5-40003NP0	S5-50003NP0	S5-60003NP0

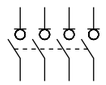


Technical information

According to IEC / EN 60947-3

					4000	5000	6300
Rated thermal current in ambient at	Ith	40° C		A	4000	5000	6300
		50° C		A	4000	5000	5670
		60° C		A	3500	4400	5040
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	4000	5000	6300
		Ue 400V	AC22A	A	3500	4000	4000
		Ue 400V	AC23A	A	2000	2500	2500
		Ue 500V	AC21A	A	3500	4000	5000
		Ue 500V	AC22A	A	3150*(5)	3150	3150
		Ue 500V	AC23A	A	1600	1800	1800

				4000	5000	6300
AC rated operational power *(2)	Pe 3x400V	AC23A	kW	1108,5	1385,6	1385,6
Rated capacitor power	400V, sen φ = 0,65		kVAr	900,6	1125,8	1125,8
Rated breaking capacity	400V	AC23A	A	16000	20000	20000
Rated making capacity	400V	AC23A	A	20000	25000	25000
Short - circuit behaviour						
Rated short-circuit making capacity *(3)	Icm		kA (peak)	100	100	100
Rated short-time withstand current (1sec.)	Icw		kA rms	50	50	50
Mechanical features						
Minimun number of mechanical operations *(4)			Cycles	1500	1500	1500
Maximum weight 3P			Kg	100	130	130
Maximum weight 3P + N			Kg	110	140	140



4P

Also available 4P switches under request, consult reference

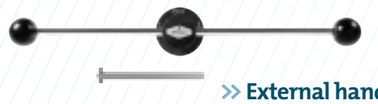
tests:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Indicative values: current values vary from one motor manufacturer to another
*(4) Please consult us for more operations
*(5) Rated operational current AC22B

series S5

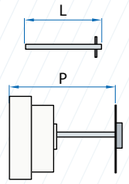
Accessories



External handle included shaft *(e1)

(Slider bar)

CODE DS-EN61



Shafts

Standard shaft included *(e1)

	L (mm)	P (mm)
	333	578... 728
(2000 A)	333	720... 870



Auxiliary contacts

1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



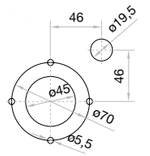
Safety key lock device

Simple *CODE* DS-CS41
Double *CODE* DS-CD41

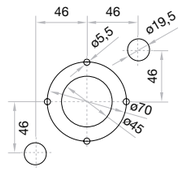
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

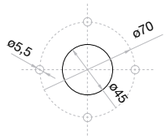


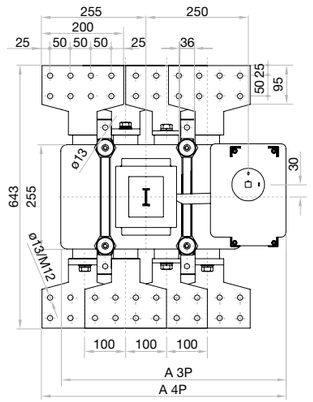
Double

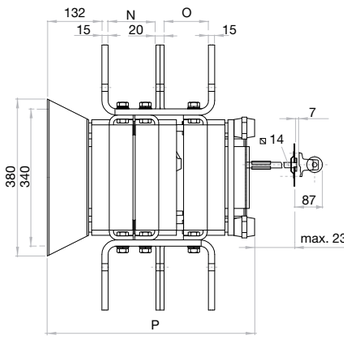


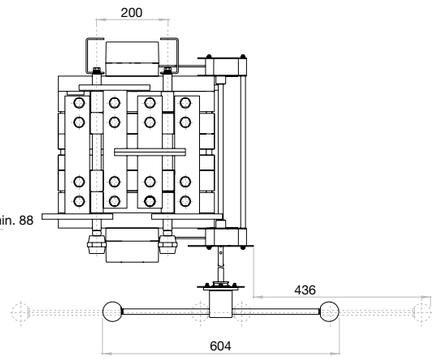
Dimensions (mm)

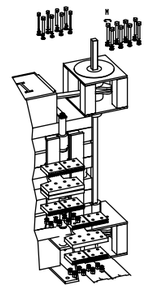
Door drilling for external handle











	A 3P	A 4P	N	O	P	ø
4000 A	551,5	597,5	116	107,5	502,5	13
5000 A 6300 A	551,5	597,5	164,5	164,5	632	

	H max (Cu) mm	L max (Cu) mm		M Nxm
4000 A	4x10	100	M12	45
5000 A 6300 A	6x10			

series S5M

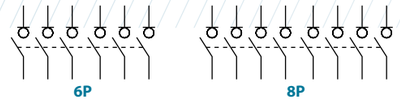
S5000M AC
Switch - disconnector base mounting 6P - 8P

Size 0

A 125|160|200



	CODE - 125A	CODE - 160A	CODE - 200A
6P	S5M01256PS0	S5M01606PS0	S5M02006PS0
8P	S5M01258PS0	S5M01608PS0	S5M02008PS0



Technical information

According to IEC / EN 60947-3

					125	160	200
Rated thermal current in ambient at	Ith		40 °C	A	125	160	200
			50 °C	A	125	160	200
			60 °C	A	125	160	200
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	4000	4000	4000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	125	160	200
		Ue 400V	AC22A	A	125	160	200
		Ue 400V	AC23A	A	125	160	160
		Ue 500V	AC21A	A	125	160	200
		Ue 500V	AC22A	A	125	160	200
		Ue 500V	AC23A	A	100	125	125
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	69,2	88,6	88,6
Rated capacitor power		400V, sen φ = 0,65		kVAr	56,2	72	72
Rated breaking capacity		400V	AC23A	A	1000	1280	1280
Rated making capacity		400V	AC23A	A	1250	1600	1600

			125	160	200
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	13	13	13
Rated short-time withstand current (1sec.)	Icw	kA rms	7	7	7
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	17	20	20
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	55	198	198
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	30000	30000	30000
Maximum weight 6P			1,8	1,8	1,9
Maximum weight 8P			2,1	2,1	2,2

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series S5M

Accessories



Direct handle
CODE DS-SI01



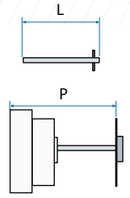
External handle included shaft *(e1)
IP65
CODE DS-LA01



Emergency external handle included shaft *(e1)
IP65
CODE DS-LR01

Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
177	155... 263





Terminal protection
CODE DS-CU01
(1 unit for input or output only frontal side)



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

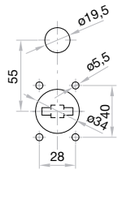


Safety key lock devices
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

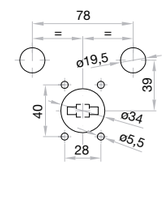
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

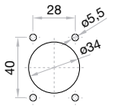


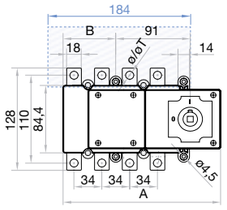
Double

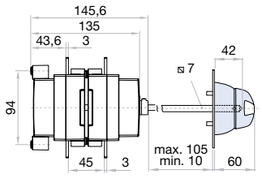


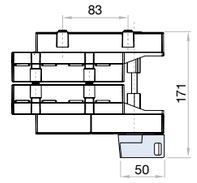
Dimensions (mm)

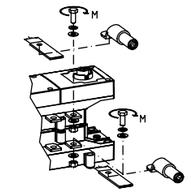
Door drilling for external handle





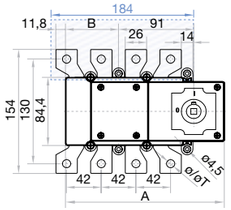


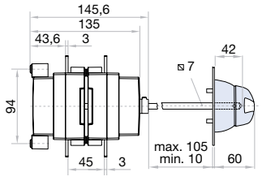


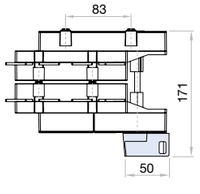


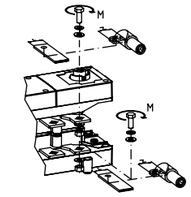
	A		B		ø
	6P	8P	6P	8P	
125 A					
160 A	181	192	53	64	10

S max (Cu)	H max (Cu)	L max (Cu)	T	M
mm^2	mm	mm		Nxm
95	5	25	M8	13









	A		B		ø
	6P	8P	6P	8P	
200 A	181	192	53	64	10

S max (Cu)	Z max	H max (Cu)	L max (Cu)	T	M
mm^2		mm	mm		Nxm
120	30	5	30	M10	18

series S5M

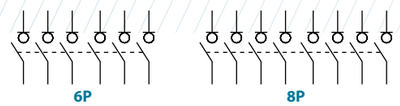
S5000M AC
Switch - disconnector base mounting 6P - 8P

Size 1

A 250|315|400



	CODE - 250A	CODE - 315A	CODE - 400A
6P	S5M02506PR0	S5M03156PR0	S5M04006PC0
8P	S5M02508PR0	S5M03158PR0	S5M04008PC0



Technical information

CE EAC IEL

According to IEC / EN 60947-3

					250	315	400
Rated thermal current in ambient at	Ith		40 °C	A	250	315	400
			50 °C	A	250	315	400
			60 °C	A	250	315	320
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	5000	5000	5000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	250	315	400
		Ue 400V	AC22A	A	250	315	400
		Ue 400V	AC23A	A	250	315	400
		Ue 500V	AC21A	A	250	315	400
		Ue 500V	AC22A	A	250	315	400
		Ue 500V	AC23A	A	200	250	315
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	138,5	174,5	221,7
Rated capacitor power		400V, sen φ = 0,65		kVAr	112,5	141,8	180,1
Rated breaking capacity		400V	AC23A	A	2000	2520	3200
Rated making capacity		400V	AC23A	A	2500	3150	4000

			250	315	400
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	20	20	20
Rated short-time withstand current (1sec.)	Icw	kA rms	12	12	12
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	33	33	33
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	1000	1000	1000
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	20000	20000	20000
Maximum weight 6P		Kg	5,5	5,5	5,7
Maximum weight 8P		Kg	5,8	5,8	6

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series S5M

Accessories



Direct handle
CODE DS-LI12



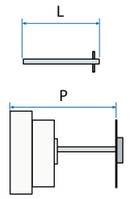
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA12



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA15



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR12



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
277	288... 422



Terminal protection
CODE DS-CU12
(1 unit for input or output only frontal side)



Terminal shrouds
CODE DS-CU11
(1 kit for input or output only frontal side)

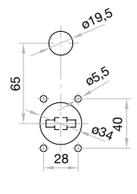


Safety key lock devices
Simple CODE DS-CB12
Double CODE DS-CF11

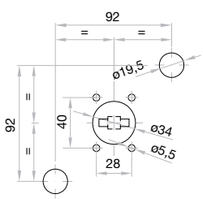
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple



Double



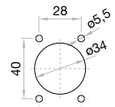


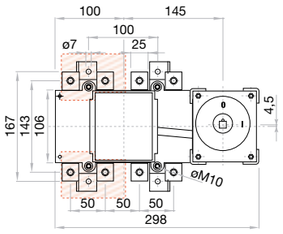
Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

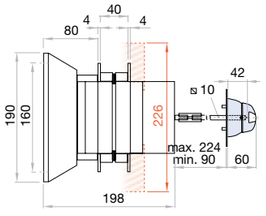
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

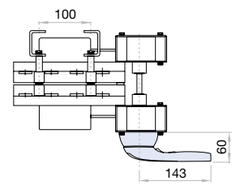
Dimensions (mm)

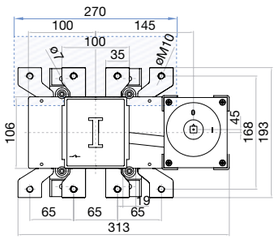
Door drilling for external handle

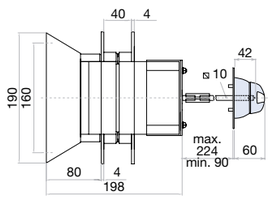


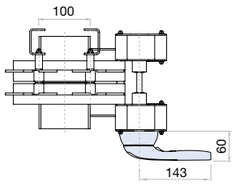


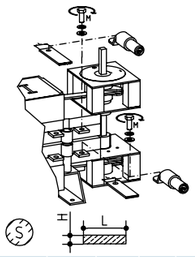




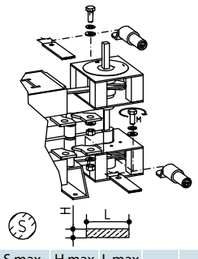








	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
250 A 315 A	185	7	25	M10	18



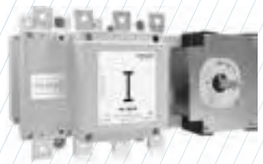
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
400 A	240	7	40	M10	24

series S5M

S5000M AC
Switch - disconnector base mounting 6P - 8P

Size 2

A 500|630



	CODE - 500A	CODE - 630A
6P	S5M05006PR0	S5M06306PR0
8P	S5M05008PR0	S5M06308PR0



Technical information

CE EAC IEL

According to IEC / EN 60947-3

					500	630
Rated thermal current in ambient at	Ith	40 °C		A	500	630
		50 °C		A	500	630
		60 °C		A	500	630
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	500	630
		Ue 400V	AC22A	A	500	630
		Ue 400V	AC23A	A	500	630
		Ue 500V	AC21A	A	500	630
		Ue 500V	AC22A	A	500	630
		Ue 500V	AC23A	A	400	500
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	277,1	349,1
Rated capacitor power		400V, sen φ = 0,65		kVAr	225,1	283,7
Rated breaking capacity		400V	AC23A	A	4000	5000
Rated making capacity		400V	AC23A	A	5000	6300

			500	630
Short - circuit behaviour				
Rated short-circuit making capacity *(3)	Icm	kA (peak)	26	26
Rated short-time withstand current (1sec.)	Icw	kA rms	16	16
Conditional short - circuit current (rms value) *(4)		kA rms	100	100
Maximum cut - off current (peak value)		kA (peak)	39	39
Maximum power dissipation (I^2 t)		A^2s (x10^3)	1600	1600
Mechanical features				
Minimun number of mechanical operations *(5)		Cycles	10000	10000
Maximum weight 6P		Kg	12,3	12,3
Maximum weight 8P		Kg	13	13

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series S5M

Accessories



Direct handle
CODE DS-LI22



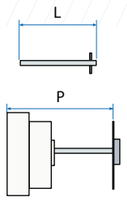
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA22



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR22

Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	325... 490





Terminal shrouds
CODE DS-CU21
(1 kit for input or output only frontal side)



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

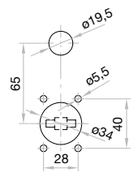


Safety key lock devices
Simple CODE DS-CB21
Double CODE DS-CF21

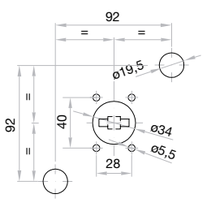
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

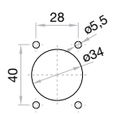


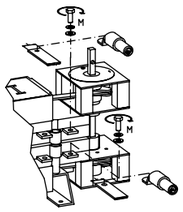
Double

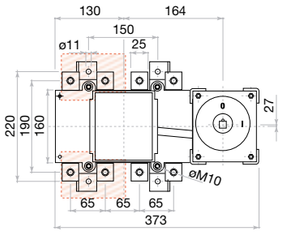


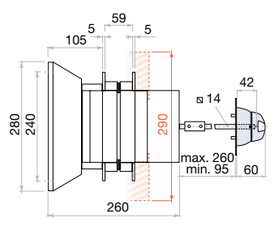
Dimensions (mm)

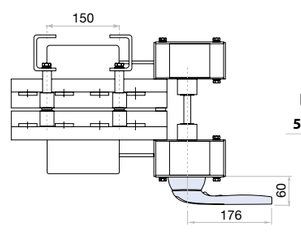
Door drilling for external handle



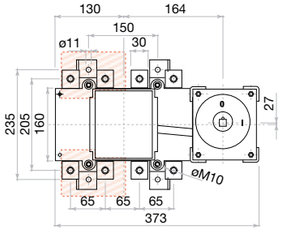


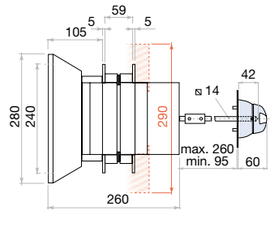


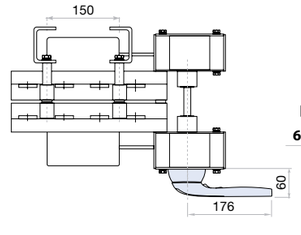




	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
500 A	2x185	6	40	M10	24







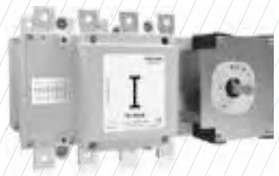
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
630 A	2x240	2x5	40	M10	24

series S5M

S5000M AC
Switch - disconnector base mounting 6P - 8P

Size 3

A 800|1000



	CODE - 800A	CODE - 1000A
6P	S5M08006PR0	S5M10006PC0
8P	S5M08008PR0	S5M10008PC0



Technical information

CE EAC IEL

According to IEC / EN 60947-3

					800	1000
Rated thermal current in ambient at	Ith		40 °C	A	800	1000
			50 °C	A	800	1000
			60 °C	A	800	900
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC rated operational current *(1)	Ie	Ue 400V	AC21A	A	800	1000
(Rated operational frequency 50 / 60 Hz)		Ue 400V	AC22A	A	800	1000
		Ue 400V	AC23A	A	800	1000
		Ue 500V	AC21A	A	800	1000
		Ue 500V	AC22A	A	800	1000
		Ue 500V	AC23A	A	800	800
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	443,4	554,2
Rated capacitor power		400V, sen φ = 0,65		kVAr	360,2	450,3
Rated breaking capacity		400V	AC23A	A	6400	8000
Rated making capacity		400V	AC23A	A	8000	10000

			800	1000
Short - circuit behaviour				
Rated short-circuit making capacity *(3)	Icm	kA (peak)	60	60
Rated short-time withstand current (1sec.)	Icw	kA rms	25	25
Conditional short - circuit current (rms value) *(4)		kA rms	72	72
Maximum cut - off current (peak value)		kA (peak)	55	55
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	4900	4900
Mechanical features				
Minimun number of mechanical operations *(5)		Cycles	10000	10000
Maximum weight 6P		Kg	18,5	18,5
Maximum weight 8P		Kg	20	20

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series S5M

Accessories



Direct handle
CODE DS-LI41



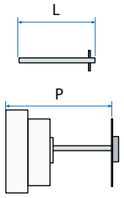
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR41



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Terminal shrouds
CODE DS-CU31
(1 kit for input or output only frontal side)



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

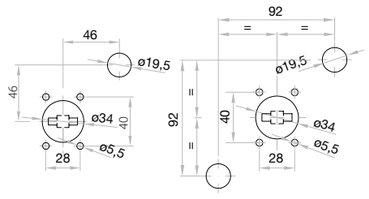
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Safety key lock devices
Simple CODE DS-CB41
Double CODE DS-CF41

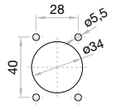
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

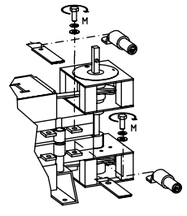
Door drilling for handle and keylock device
Simple Double

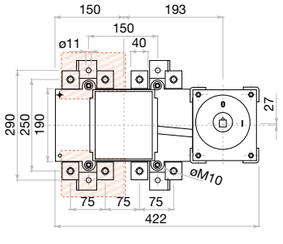


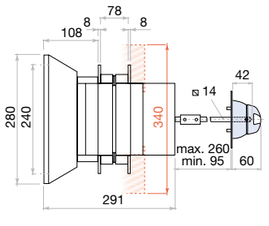
Dimensions (mm)

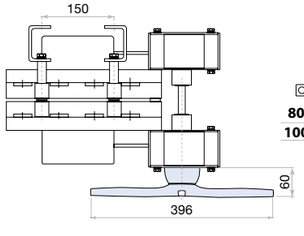
Door drilling for external handle











	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
800 A	2x240	2x10	50	M14	45
1000 A	2x300	2x10			

series S5M

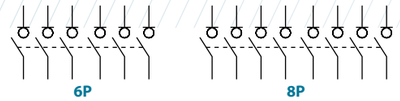
S5000M AC
Switch - disconnector base mounting 6P - 8P

Size 4

A 1250|1600|1800|2000



	CODE - 1250A	CODE - 1600A	CODE - 1800A	CODE - 2000A
6P	S5M12506PS0	S5M16006PS0	S5M18006PS0	S5M20006PD0
8P	S5M12508PS0	S5M16008PS0	S5M18008PS0	S5M20008PD0



Technical information

CE EAC IEL

According to IEC / EN 60947-3

					1250	1600	1800	2000
Rated thermal current in ambient at	Ith	40 °C	A		1250	1600	1800	2000
		50 °C	A		1250	1600	1620	1800
		60 °C	A		1000	1440	1440	1600
Rated insulation voltage	Ui		V		1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.		V		10000	10000	10000	10000
Rated impulse withstand voltage	Uimp		kV		12	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	1250	1600	1800	2000
		Ue 400V	AC22A	A	1250	1600	1800	2000
		Ue 400V	AC23A	A	1000	1000	1250	1250
		Ue 500V	AC21A	A	1250	1600	1800	2000
		Ue 500V	AC22A	A	1000	1250	1600	1800
		Ue 500V	AC23A	A	800	900	1000*(5)	1000*(5)

				1250	1600	1800	2000
AC rated operational power Pe *(2)	3x400V	AC23A	kW	554,2	554,2	692,8	692,8
Rated capacitor power	400V, sen φ = 0,65		kVAr	450,3	450,3	562,9	562,9
Rated breaking capacity	400V	AC23A	A	8000	8000	10000	10000
Rated making capacity	400V	AC23A	A	10000	10000	12500	12500
Short - circuit behaviour							
Rated short-circuit making capacity *(3)	Icm		kA (peak)	60	75	75	75
Rated short-time withstand current (1sec.)	Icw		kA rms	25	50	50	50
Mechanical features							
Minimun number of mechanical operations *(4)			Cycles	10000	4500	4500	4500
Maximum weight 6P			Kg	42,9	42,9	42,9	42,9
Maximum weight 8P			Kg	47,3	47,3	47,3	47,3

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) Please consult us for more operations
*(5) Rated operational current AC22B

series S5M

Accessories



Direct handle
CODE DS-LI41



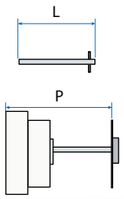
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR41



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Terminal shrouds
CODE DS-CU41
(1 kit for input or output only frontal side)



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

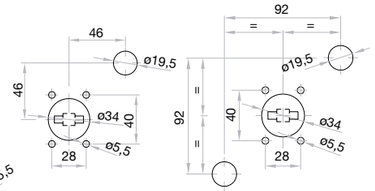
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Safety key lock devices
Simple *CODE* DS-CB41
Double *CODE* DS-CF41

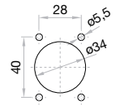
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

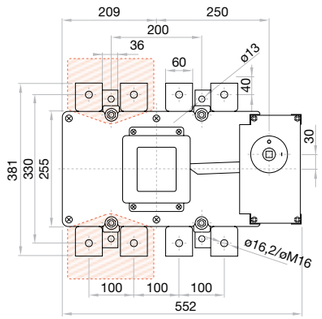
Door drilling for handle and keylock device
Simple Double

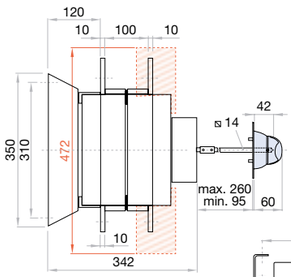


Dimensions (mm)

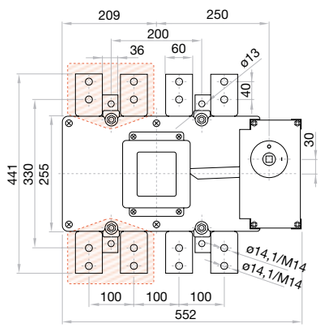
Door drilling for external handle

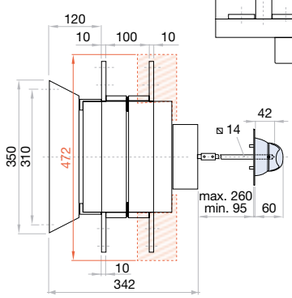




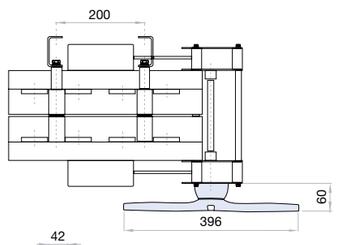


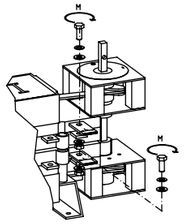
1250 A





1600 A
1800 A
2000 A

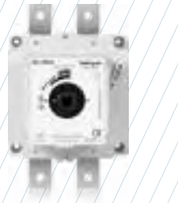




	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1250 A	2x7	80	M16	80
1600 A **1800 A** **2000 A**			M14	55

S6000 AC
Switch - disconnector base mounting 2P - 3P - 3P+N

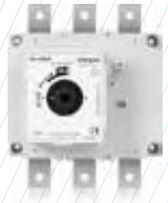
Size 1
A 200|250|315|400



CODE - 2P

200A	S6-02002PS0
250A	S6-02502PS0
315A	S6-03152PS0
400A	S6-04002PD0

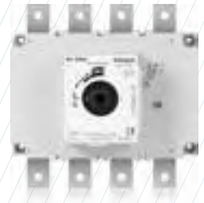
2P



CODE - 3P

200A	S6-02003PS0
250A	S6-02503PS0
315A	S6-03153PS0
400A	S6-04003PD0

3P



CODE - 3P + N

200A	S6-02003NS0
250A	S6-02503NS0
315A	S6-03153NS0
400A	S6-04003ND0

3P + N

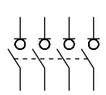
Technical information

According to IEC / EN 60947-3

					200	250	315	400
Rated thermal current in ambient at	Ith	40° C		A	200	250	315	400
		50° C		A	200	250	315	400
		60° C		A	200	250	315	400
Rated insulation voltage	Ui			V	1000	1000	1000	1000
Rated dielectric strength		50 Hz., 1 min.		V	5000	5000	5000	5000
Rated impulse withstand voltage	Uimp			kV	12	12	12	12
AC Rated operational current *(1)	Ie	Monophasic 400V	AC21A	A	200	250	315	400
			AC22A	A	200	250	315	400
			AC23A	A	200	250	315	400
		Triphasic 400V	AC21A	A	200	250	315	400
			AC22A	A	200	250	315	400
			AC23A	A	200	250	315	400
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	110,8	138,5	174,5	221,7
Rated capacitor power		400V, sen φ=0,65		kVAr	90	112,5	141,8	180,1
Rated breaking capacity		400V, cos φ=0,35-0,45		A	1600	2000	2520	3200
Rated making capacity		400V, cos φ=0,45		A	2000	2500	3150	4000

				200	250	315	400
Short - circuit behaviour							
Rated short-circuit making capacity *(3)	Icm	kA	(peak)	20	20	20	20
Rated short-time withstand current (1sec)	Icw	kA	rms	12	12	12	12
Conditional short - circuit current *(4)		kA	rms	100	100	100	100
Maximum cut - off current		kA	(peak)	33	33	33	33
Maximum power dissipation		A^2s	($x10^3$)	1000	1000	1000	1000
Mechanical features							
Minimun number of mechanical operations *(5)		Cycles		20000	20000	20000	20000
Maximum weight 2P		kg		1,65	1,65	1,65	1,68
Maximum weight 3P		kg		2,17	2,17	2,17	2,21
Maximum weight 3P + N		kg		2,70	2,70	2,70	2,76

*(1) Other voltages and / or utilization categories. Please consult
*(2) Reference values, the associated current depends on motor manufacturer
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values
*(5) Please consult us for more operations



4P

Also available 4P switches under request, consult reference

tests:

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consult

Accessories



Direct handle
CODE DS-SI11



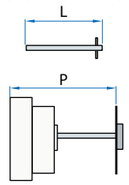
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA14



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SR11



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
227	103... 256

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
375	103... 415	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	103... 576	DS-EP15



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

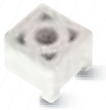
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DR-CU11 (1 unit)
CODE DR-CU12 (1 unit)
CODE DR-CU13 (1 unit)



Phase barriers
CODE DR-SF11 (1 unit)
CODE DR-SF12 (2 units)
CODE DR-SF13 (3 units)



Spacers
CODE DR-EL11 (4 units)

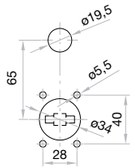


Safety key lock device
Simple CODE DS-CA11
Double CODE DS-CE11

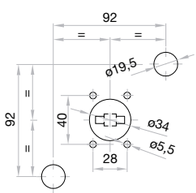
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

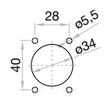


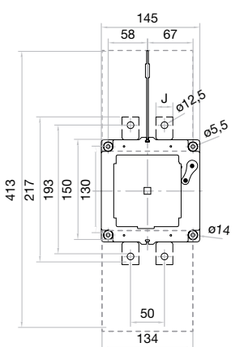
Double

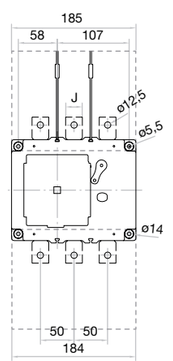


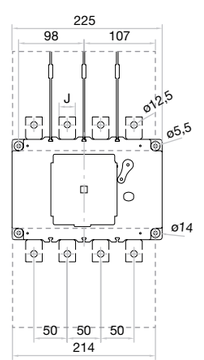
Dimensions (mm)

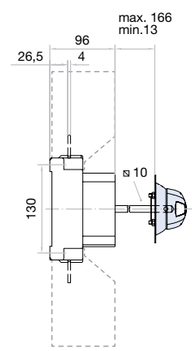
Door drilling for external handle

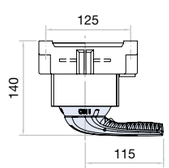


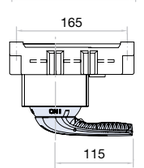


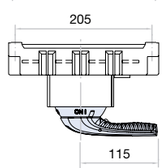






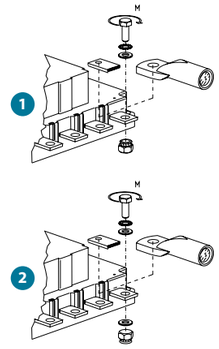


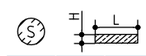




	J mm
200 A	25
250 A	25
315 A	25
400 A	30

2P | 3P | 3P + N





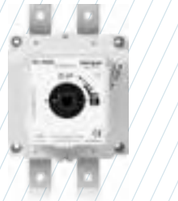
	S max (Cu) mm^2	H max (Cu) mm	L max (Cu) mm		M Nxm
200 A	120	7	25	M10	18
250 A	150	7	25	M10	18
315 A	185*(6)	7	25	M10	18
400 A	240*(6)	7	35*(6)	M10	18

*(6) Using phase barriers DR-SF__ to maintain the required clearance.

S6000 AC
Switch - disconnector base mounting 2P - 3P - 3P+N

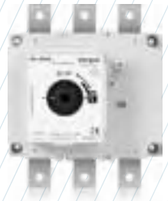
Size 2

A 500|630|800



CODE - 2P

500A	S6-05002PS0
630A	S6-06302PS0
800A	S6-08002PD0



CODE - 3P

500A	S6-05003PS0
630A	S6-06303PS0
800A	S6-08003PD0



CODE - 3P + N

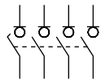
500A	S6-05003NS0
630A	S6-06303NS0
800A	S6-08003ND0



2P



3P



3P + N

Technical information

CE EAC

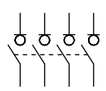
tests:

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According to IEC / EN 60947-3

					500	630	800
Rated thermal current in ambient at	Ith	40° C		A	500	630	800
		50° C		A	500	630	800
		60° C		A	500	630	800
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength		50 Hz., 1 min.		V	8000	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC Rated operational current *(1)	Ie	Monophasic 400V	AC21A	A	500	630	800
			AC22A	A	500	630	800
			AC23A	A	500	630	800
		Triphasic 400V	AC21A	A	500	630	800
			AC22A	A	500	630	800
			AC23A	A	500	630	800
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	277,1	349,2	443,4
Rated capacitor power		400V, sen φ=0,65		kVAr	225,2	283,7	360,3
Rated breaking capacity		400V, cos φ=0,35-0,45		A	4000	5000	6400
Rated making capacity		400V, cos φ=0,45		A	5000	6300	8000

Short - circuit behaviour			500	630	800
Rated short-circuit making capacity *(3)	Icm	kA (peak)	26	26	26
Rated short-time withstand current (1sec)	Icw	kA rms	16	16	16
Conditional short - circuit current *(4)		kA rms	100	100	100
Maximum cut - off current		kA (peak)	39	39	39
Maximum power dissipation		A^2s (x10^3)	1000	1000	1000
Minimun number of mechanical operations *(5)		Cycles	10000	10000	10000
Maximum weight 2P		kg	3,91	3,91	3,91
Maximum weight 3P		kg	4,76	4,76	4,76
Maximum weight 3P + N		kg	5,70	5,70	5,70



4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Reference values, the associated current depends on motor manufacturer
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values
*(5) Please consult us for more operations

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Accessories



Direct handle
CODE DS-LI21



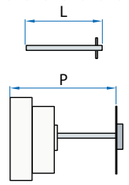
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA21



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA24



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LR21



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
195	134... 240

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	134... 400	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	134... 560	DS-EP24



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DR-CU21 (1 unit)
CODE DR-CU22 (1 unit)
CODE DR-CU23 (1 unit)



Phase barriers
CODE DR-SF21 (1 unit)
CODE DR-SF22 (2 units)
CODE DR-SF23 (3 units)



Spacers
CODE DR-EL21 (4 units)

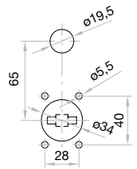


Safety key lock device
Simple CODE DS-CB21
Double CODE DS-CF21

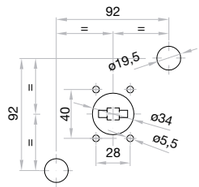
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

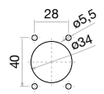


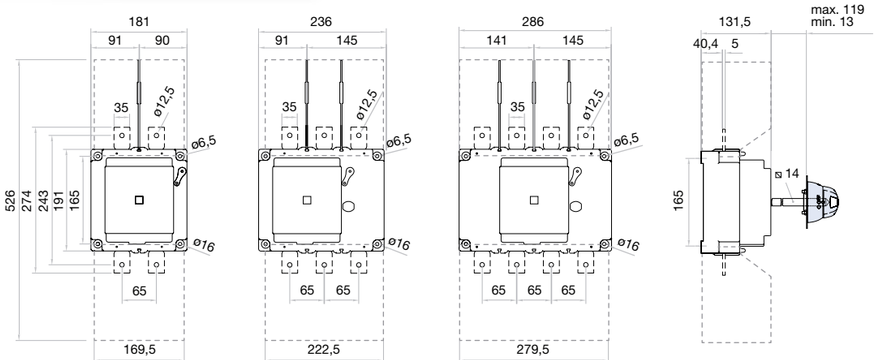
Double

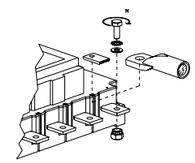


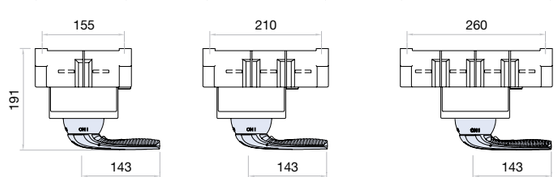
Dimensions (mm)

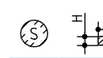
Door drilling for external handle











	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
500 A	2x150	6	40	M10	24
630 A	2x185	2x5	40	M10	24
800 A	2x240	2x5	50*(6)	M10	24

*(6) Using phase barriers DR-SF__ to maintain the required clearance.

2P 3P 3P + N

series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 00
A 40|63|80


CIS25A

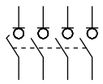

CIS25D


CIS25C


CIS25F

polyester enclosure + fuse holders CIS25A	3P	CIS25A00403PB	CIS25A00633PB	CIS25A00803PB
	3P + N	CIS25A00403NB	CIS25A00633NB	CIS25A00803NB
polyester enclosure CIS25D	3P	CIS25D00403PB	CIS25D00633PB	CIS25D00803PB
	3P + N	CIS25D00403NB	CIS25D00633NB	CIS25D00803NB
metal enclosure CIS25C	3P	CIS25C00403PB	CIS25C00633PB	CIS25C00803PB
	3P + N	CIS25C00403NB	CIS25C00633NB	CIS25C00803NB
metal enclosure + fuse holders CIS25F	3P	CIS25F00403PB	CIS25F00633PB	CIS25F00803PB
	3P + N	CIS25F00403NB	CIS25F00633NB	CIS25F00803NB


3P


3P + N

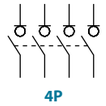
Technical information

CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					40	63	80
Rated thermal current in ambient at	Ithe	40 °C		A	50	63	80
Rated insulation voltage	Ui			V	800	800	800
Rated dielectric strength	50 Hz., 1 min.			V	3500	3500	3500
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	50	63	80
		Ue 400V	AC22A	A	50	63	80
		Ue 400V	AC23A	A	50	63	63
		Ue 500V	AC21A	A	50	63	80
		Ue 500V	AC22A	A	50	63	63
		Ue 500V	AC23A	A	40	50	50
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	27,7	34,9	34,9
Rated capacitor power		400V, sen φ = 0,65		kVAr	22,5	28,3	28,3
Rated breaking capacity		400V	AC23A	A	400	504	504
Rated making capacity		400V	AC23A	A	500	630	630

			40	63	80
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	5	5	5
Rated short-time withstand current (1sec.)	Icw	kA rms	3	3	3
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	10	10	10
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	54,7	54,7	54,7
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	30000	30000	30000
Maximum weight 3P		Kg	Consult		
Maximum weight 3P + N		Kg	Consult		


4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series CIS25

Accessories



» External handle included
IP65



» Emergency external handle under request
IP65



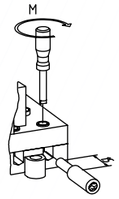
» Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



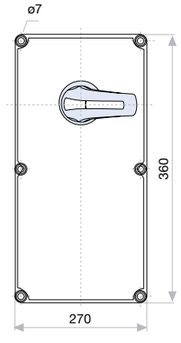
» Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

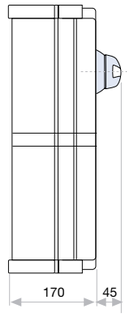
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



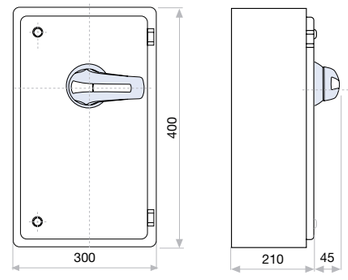
S max (Cu) mm²	M Nxm
25	2

Dimensions (mm)

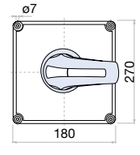


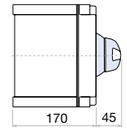


CIS25A
NH 00

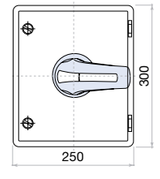


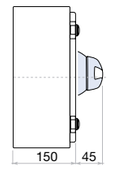
CIS25F
NH 00



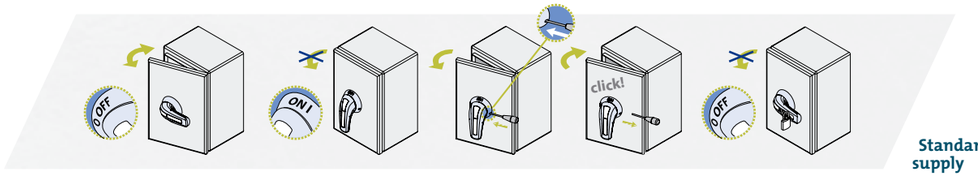


CIS25D





CIS25C



Standard supply

series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 0
A 125|160


CIS25A

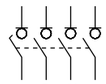

CIS25D


CIS25C


CIS25F

			CODE - 125A	CODE - 160A
polyester enclosure + fuse holders	CIS25A	3P	CIS25A01253PB	CIS25A01603PB
		3P + N	CIS25A01253NB	CIS25A01603NB
polyester enclosure	CIS25D	3P	CIS25D01253PB	CIS25D01603PB
		3P + N	CIS25D01253NB	CIS25D01603NB
metal enclosure	CIS25C	3P	CIS25C01253PB	CIS25C01603PB
		3P + N	CIS25C01253NB	CIS25C01603NB
metal enclosure + fuse holders	CIS25F	3P	CIS25F01253PB	CIS25F01603PB
		3P + N	CIS25F01253NB	CIS25F01603NB


3P


3P + N

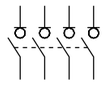
Technical information

CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					125	160
Rated thermal current in ambient at	Ithe	40 °C		A	125	160
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	4000	4000
Rated impulse withstand voltage	Uimp			kV	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	125	160
		Ue 400V	AC22A	A	125	160
		Ue 400V	AC23A	A	125	160
		Ue 500V	AC21A	A	125	160
		Ue 500V	AC22A	A	125	160
		Ue 500V	AC23A	A	100	125
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	69,2	88,6
Rated capacitor power		400V, sen φ = 0,65		kVAr	56,2	72
Rated breaking capacity		400V	AC23A	A	1000	1280
Rated making capacity		400V	AC23A	A	1250	1600

			125	160
Short - circuit behaviour				
Rated short-circuit making capacity *(3)	Icm	kA (peak)	13	13
Rated short-time withstand current (1sec.)	Icw	kA rms	7	7
Conditional short - circuit current (rms value) *(4)		kA rms	100	100
Maximum cut - off current (peak value)		kA (peak)	17	20
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	55	198
Mechanical features				
Minimun number of mechanical operations *(5)		Cycles	30000	30000
Maximum weight 3P		Kg	Consult	
Maximum weight 3P + N		Kg	Consult	


4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series CIS25

Accessories



» External handle included
IP65



» Emergency external handle under request
IP65



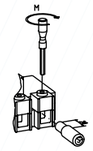
» Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



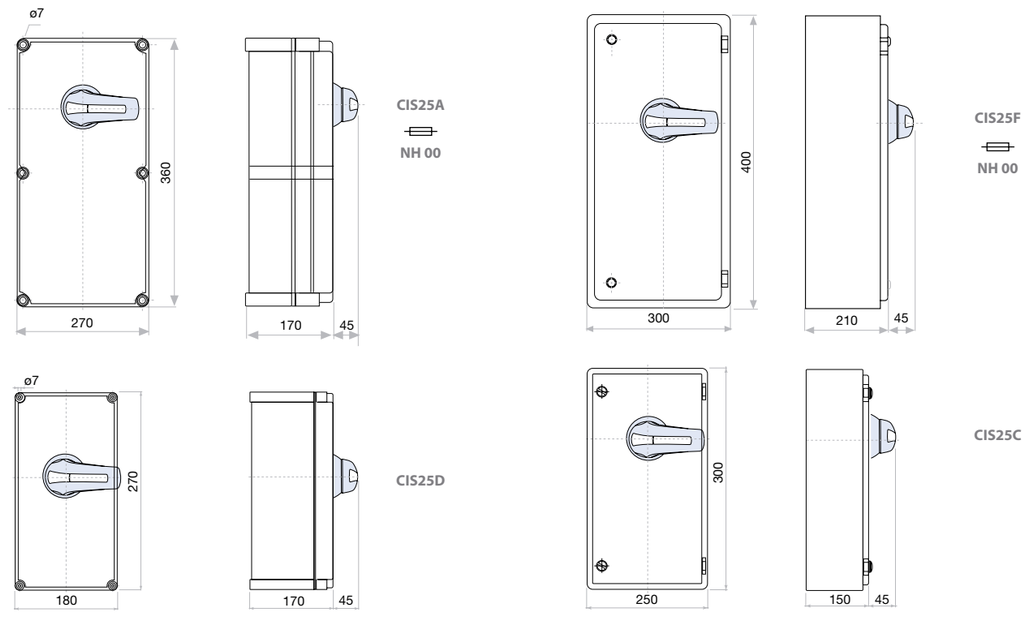
» Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

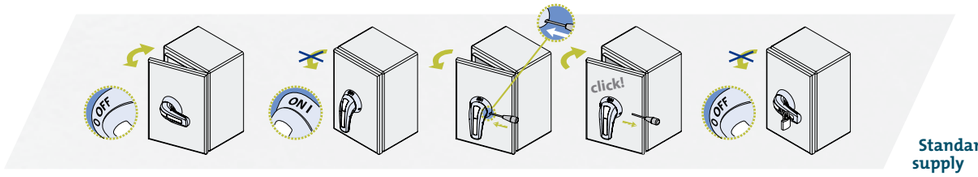
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



S max (Cu)	M
mm²	Nxm
95	4

Dimensions (mm)



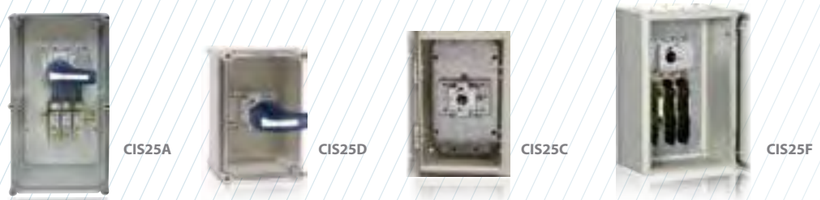


Standard supply

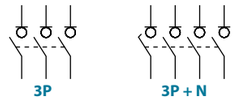
series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 1
A 200|250|315



		CODE - 200A	CODE - 250A	CODE - 315A
polyester enclosure + fuse holders **CIS25A**	3P	CIS25A02003PR	CIS25A02503PR	CIS25A03153PR
	3P + N	CIS25A02003NR	CIS25A02503NR	CIS25A03153NR
polyester enclosure **CIS25D**	3P	CIS25D02003PR	CIS25D02503PR	CIS25D03153PR
	3P + N	CIS25D02003NR	CIS25D02503NR	CIS25D03153NR
metal enclosure **CIS25C**	3P	CIS25C02003PS	CIS25C02503PR	CIS25C03153PR
	3P + N	CIS25C02003NS	CIS25C02503NR	CIS25C03153NR
metal enclosure + fuse holders **CIS25F**	3P	CIS25F02003PR	CIS25F02503PR	CIS25F03153PR
	3P + N	CIS25F02003NR	CIS25F02503NR	CIS25F03153NR



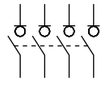
Technical information

CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					200	250	315
Rated thermal current in ambient at	Ithe		40 °C	A	200	250	315
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	5000	5000	5000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	200	250	315
		Ue 400V	AC22A	A	200	250	315
		Ue 400V	AC23A	A	200	250	315
		Ue 500V	AC21A	A	200	250	315
		Ue 500V	AC22A	A	200	250	315
		Ue 500V	AC23A	A	160	200	250
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	110,8	138,5	174,5
Rated capacitor power		400V, sen φ = 0,65		kVAr	90	112,5	141,8
Rated breaking capacity		400V	AC23A	A	1600	2000	2520
Rated making capacity		400V	AC23A	A	2000	2500	3150

			200	250	315
Short - circuit behaviour					
Rated short-circuit making capacity *(3)	Icm	kA (peak)	20	20	20
Rated short-time withstand current (1sec.)	Icw	kA rms	12	12	12
Conditional short - circuit current (rms value) *(4)		kA rms	100	100	100
Maximum cut - off current (peak value)		kA (peak)	33	33	33
Maximum power dissipation (I^2t)		A^2s (x10^3)	497	1000	1000
Mechanical features					
Minimun number of mechanical operations *(5)		Cycles	20000	20000	20000
Maximum weight 3P		Kg		Consult	
Maximum weight 3P + N		Kg		Consult	



Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series CIS25

Accessories



External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

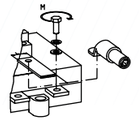


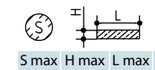
Terminal protection
CODE DR-CU11
(1 kit for input or output)



Safety key lock device
Simple *CODE* DS-CA11
Double *CODE* DS-CE11

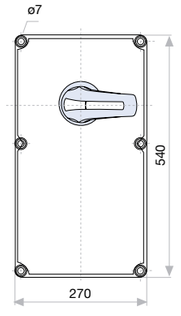
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

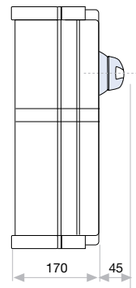




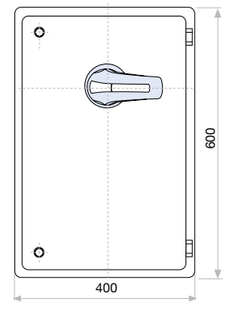
	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
200 A				M8	13
250 A	185	7	25		
315 A				M10	18

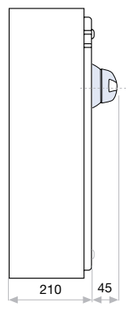
Dimensions (mm)



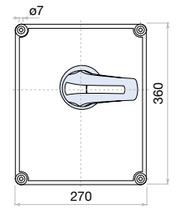


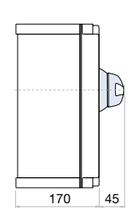
CIS25A
200A
NH 0
200A-315A
NH 1



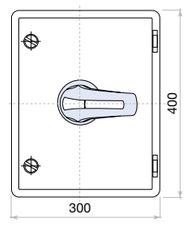


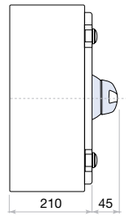
CIS25F
200A
NH 0
200A-315A
NH 1



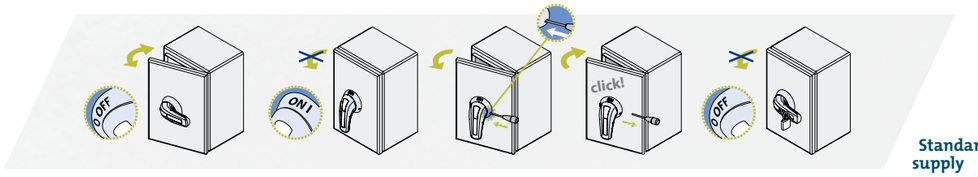


CIS25D





CIS25C



Standard supply

series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 2
A 400|630


CIS25A

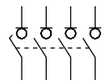

CIS25D


CIS25C


CIS25F

			CODE-400A	CODE-630A
polyester enclosure + fuse holders	CIS25A	3P	CIS25A04003PR	CIS25A06303PR
		3P + N	CIS25A04003NR	CIS25A06303NR
polyester enclosure	CIS25D	3P	CIS25D04003PR	CIS25D06303PR
		3P + N	CIS25D04003NR	CIS25D06303NR
metal enclosure	CIS25C	3P	CIS25C04003PC	CIS25C06303PR
		3P + N	CIS25C04003NC	CIS25C06303NR
metal enclosure + fuse holders	CIS25F	3P	CIS25F04003PR	CIS25F06303PR
		3P + N	CIS25F04003NR	CIS25F06303NR


3P


3P + N

Technical information

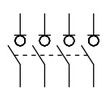
CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					400	630
Rated thermal current in ambient at	Ithe	40 °C		A	400	630
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	5000	8000
Rated impulse withstand voltage	Uimp			kV	8	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	400	630
		Ue 400V	AC22A	A	400	630
		Ue 400V	AC23A	A	400	630
		Ue 500V	AC21A	A	400	630
		Ue 500V	AC22A	A	400	630
		Ue 500V	AC23A	A	400	500
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	221,7	349,1
Rated capacitor power		400V, sen φ = 0,65		kVAr	180,1	283,7
Rated breaking capacity		400V	AC23A	A	3200	5000
Rated making capacity		400V	AC23A	A	4000	6300

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

			400	630
Short - circuit behaviour				
Rated short-circuit making capacity *(3)	Icm	kA (peak)	20	26
Rated short-time withstand current (1sec.)	Icw	kA rms	12	16
Conditional short - circuit current (rms value) *(4)		kA rms	100	100
Maximum cut - off current (peak value)		kA (peak)	33	39
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	1000	1600
Mechanical features				
Minimun number of mechanical operations *(5)		Cycles	20000	10000
Maximum weight 3P		Kg	Consult	
Maximum weight 3P + N		Kg	Consult	


4P

Also available 4P switches under request, consult reference

series CIS25

Accessories



» External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



» Emergency external handle under request
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



» Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

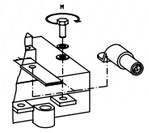


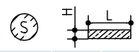
» Terminal protection
CODE DR-CU21
(1 kit for input or output)



» Safety key lock device
Simple *CODE* DS-CB21
Double *CODE* DS-CF21

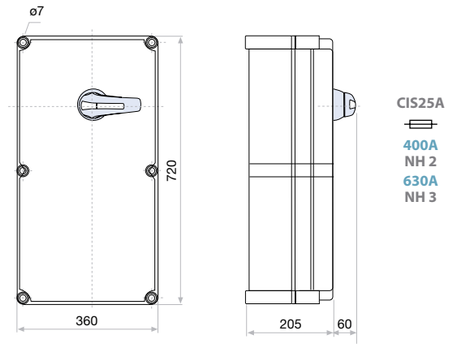
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

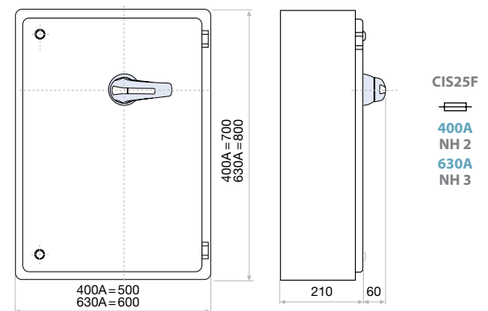


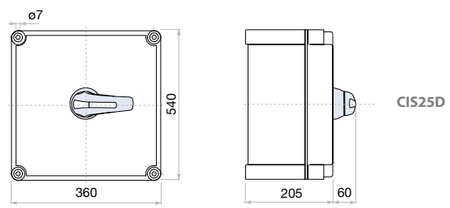


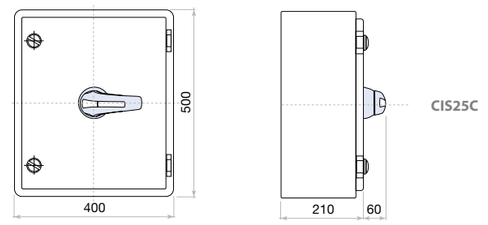
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
400 A	2x185	6	40	M10	24
630 A	2x240	2x5	40		

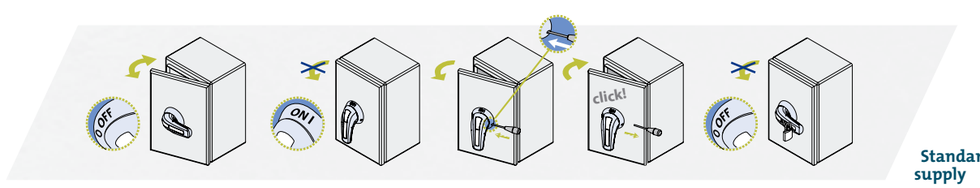
Dimensions (mm)











Standard supply

series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 3
A 800


CIS25A

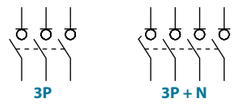

CIS25D


CIS25C


CIS25F

CODE - 800A

polyester enclosure + fuse holders	CIS25A	3P	CIS25A08003PR
		3P + N	CIS25A08003NR
polyester enclosure	CIS25D	3P	CIS25D08003PR
		3P + N	CIS25D08003NR
metal enclosure	CIS25C	3P	CIS25C08003PR
		3P + N	CIS25C08003NR
metal enclosure + fuse holders	CIS25F	3P	CIS25F08003PR
		3P + N	CIS25F08003NR


3P

3P + N

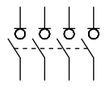
Technical information

CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					800
Rated thermal current in ambient at	Ithe		40 °C	A	800
Rated insulation voltage	Ui			V	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000
Rated impulse withstand voltage	Uimp			kV	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	800
		Ue 400V	AC22A	A	800
		Ue 400V	AC23A	A	800
		Ue 500V	AC21A	A	800
		Ue 500V	AC22A	A	800
		Ue 500V	AC23A	A	800
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	443,4
Rated capacitor power		400V, sen φ = 0,65		kVAr	360,2
Rated breaking capacity		400V	AC23A	A	6400
Rated making capacity		400V	AC23A	A	8000

			800
Short - circuit behaviour			
Rated short-circuit making capacity *(3)	Icm	kA (peak)	60
Rated short-time withstand current (1sec.)	Icw	kA rms	25
Conditional short - circuit current (rms value) *(4)		kA rms	72
Maximum cut - off current (peak value)		kA (peak)	55
Maximum power dissipation (I^2 t)		A^2s ($x10^3$)	4900
Mechanical features			
Minimun number of mechanical operations *(5)		Cycles	10000
Maximum weight 3P		Kg	Consult
Maximum weight 3P + N		Kg	Consult


4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series CIS25

Accessories



External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

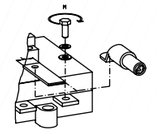


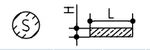
Terminal protection
CODE DR-CU31
(1 kit for input or output)



Safety key lock device
Simple *CODE* DS-CB31
Double *CODE* DS-CF31

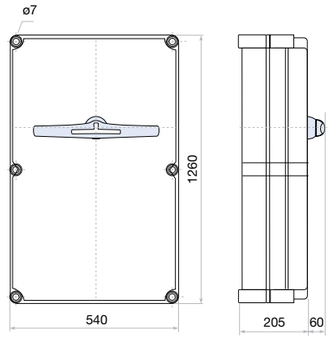
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



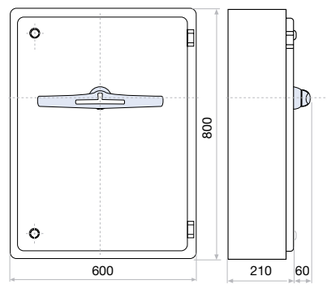


S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x10	50	M14	45

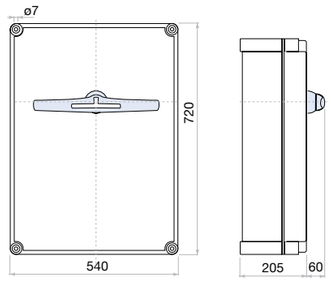
Dimensions (mm)



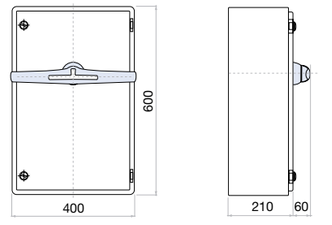
CIS25A
NH 4



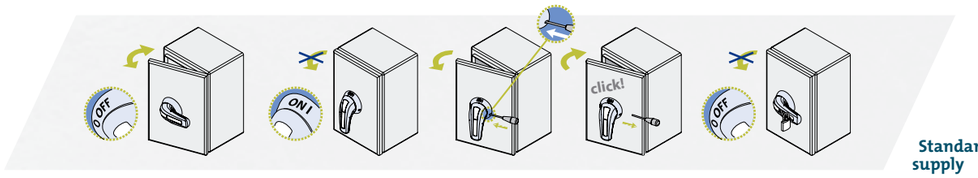
CIS25F
NH 4



CIS25D



CIS25C



Standard supply

series CIS25

CIS25 - A - C - D - F
Enclosed switch - disconnector
IP65 (with or without fuse holders) 3P - 3P+N

Size 4
A 1000|1250|1600


CIS25A

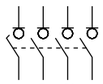

CIS25D


CIS25C


CIS25F

			CODE - 1000A	CODE - 1250A	CODE - 1600A
polyester enclosure + fuse holders	CIS25A	3P	CIS25A10003PS	CIS25A12503PS	CIS25A16003PS
		3P + N	CIS25A10003NS	CIS25A12503NS	CIS25A16003NS
polyester enclosure	CIS25D	3P	CIS25D10003PS	CIS25D12503PS	CIS25D16003PS
		3P + N	CIS25D10003NS	CIS25D12503NS	CIS25D16003NS
metal enclosure	CIS25C	3P	CIS25C10003PS	CIS25C12503PS	CIS25C16003PS
		3P + N	CIS25C10003NS	CIS25C12503NS	CIS25C16003NS
metal enclosure + fuse holders	CIS25F	3P	CIS25F10003PS	CIS25F12503PS	CIS25F16003PS
		3P + N	CIS25F10003NS	CIS25F12503NS	CIS25F16003NS


3P


3P + N

Technical information

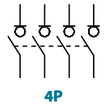
CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					1000	1250	1600
Rated thermal current in ambient at	Ithe		40 °C	A	1000	1250	1600
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	Ue 400V	AC21A	A	1000	1250	1600
		Ue 400V	AC22A	A	1000	1250	1600
		Ue 400V	AC23A	A	1000	1000	1000
		Ue 500V	AC21A	A	1000	1250	1600
		Ue 500V	AC22A	A	1000	1000	1250
		Ue 500V	AC23A	A	800	800	900

					1000	1250	1600
AC rated operational power *(2)	Pe	3x400V	AC23A	kW	554,2	554,2	554,2
Rated capacitor power		400V, sen φ = 0,65		kVAr	450,3	450,3	450,3
Rated breaking capacity		400V	AC23A	A	8000	8000	8000
Rated making capacity		400V	AC23A	A	10000	10000	10000
Short - circuit behaviour							
Rated short-circuit making capacity *(3)		Icm		kA (peak)	60	60	75
Rated short-time withstand current (1sec.)		Icw		kA rms	25	25	50
Mechanical features							
Minimun number of mechanical operations *(4)				Cycles	10000	10000	4500
Maximum weight 3P				Kg	Consult		
Maximum weight 3P + N				Kg	Consult		

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values: current values vary from one motor manufacturer to another
*(3) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(4) Please consult us for more operations


4P

Also available 4P switches under request, consult reference

series CIS25

Accessories



External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

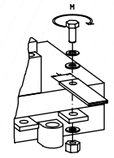


Terminal protection
CODE DR-CU41
(1 kit for input or output)



Safety key lock device
Simple *CODE* DS-CB41
Double *CODE* DS-CF41

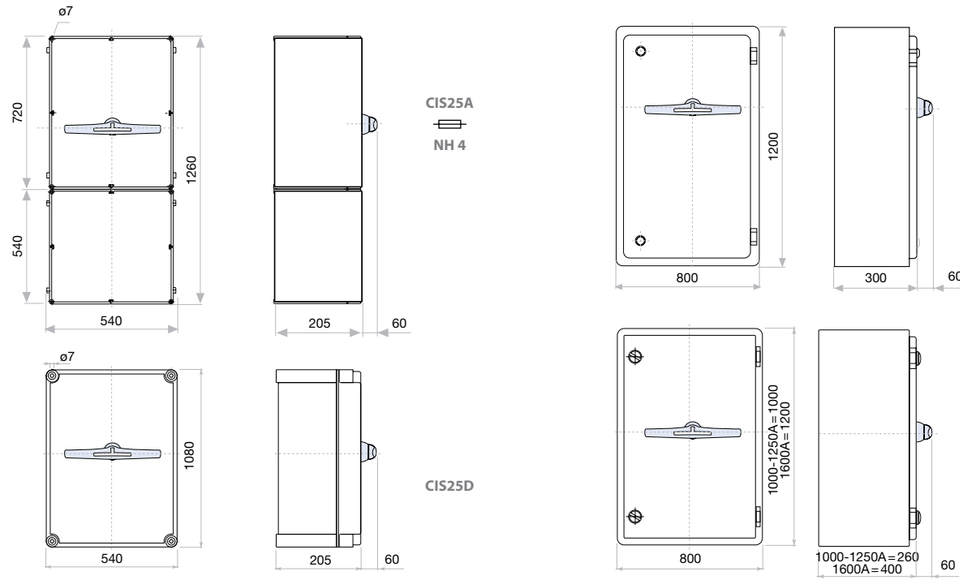
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

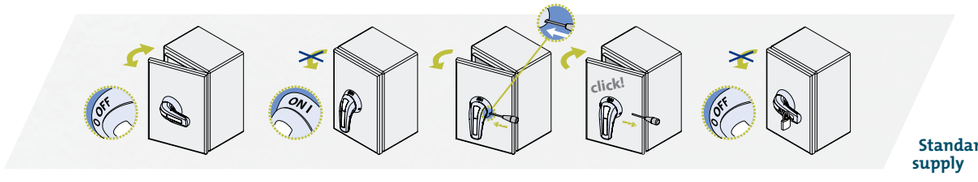




	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1000 A 1250 A	2x7	80	M16	80
1600 A			M14	55

Dimensions (mm)





Standard supply

IPTA | IPTR | IPTU
Switch disconnector for transformer secondary protection

A 40...630

4P - 3P+N

IPTA
automatic



IPTR
manual single module



IPTU
manual double module



		CODE - 40A	CODE - 50...63A	CODE - 80...100A	CODE - 125...160A
IPTA	4P	IPTA00404PS0	IPTA00634PS0	IPTA01004PS0	IPTA01604PS0
		CODE - 200A	CODE - 250A	CODE - 320...400A	CODE - 630A
		IPTA02004PS0	IPTA02504PS0	IPTA04004PS0	IPTA06304PT0
		CODE - 160A	CODE - 250A	CODE - 400A	CODE - 630A
IPTR	3P + N	IPTR01603NB0	IPTR02503NB0	IPTR04003NB0	IPTR06303NT0
		CODE - 160A	CODE - 250A	CODE - 400A	CODE - 630A
IPTU	3P + N	IPTU01603NB0	IPTU02503NB0	IPTU04003NB0	IPTU06303NT0



Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

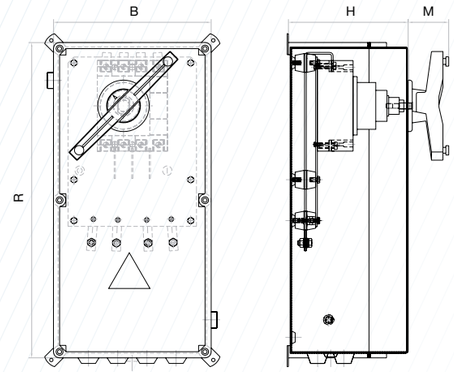
	Amps (Ith)	NH / DIN
IPTR	160	0
	250	1
	400	2
	630	3
IPTU	160	0
	250	1
	400	2
	630	3

Selection table

kVA	UF/UL (Vac)	In (A)
50	380 / 220	100
75	380 / 220	125
100	380 / 220	160
125	380 / 220	200
160	380 / 220	250
250	380 / 220	400
400	380 / 220	630

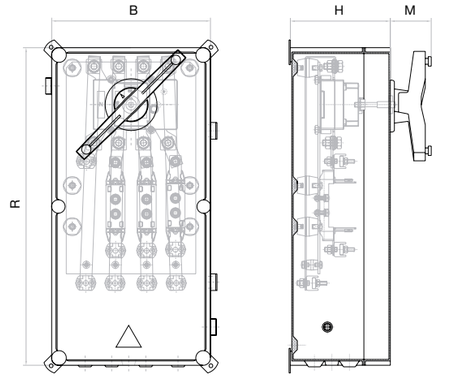
Dimensions (mm)

IPTA



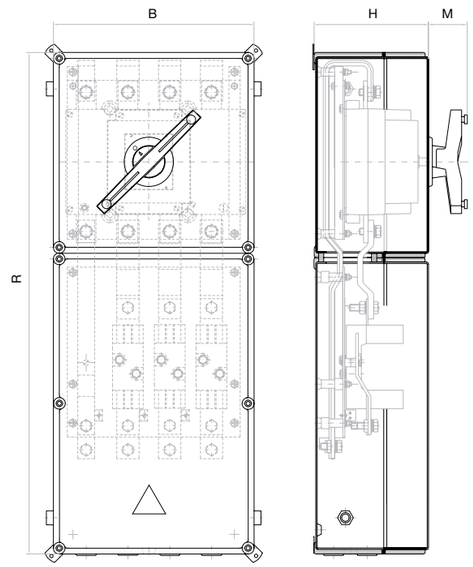
	R	B	H	M
40 - 63 - 80 - 100 A 160 - 200 - 250 A	540	270	205	69,5
400 A	540	360	263	69,5
630 A	720	360	205	69,5

IPTR



	R	B	H	M
160 - 250 A	540	270	170	69,5
400 A	720	360	205	69,5
630 A	720	360	205	69,5

IPTU



	R	B	H	M
160 - 250 A	810	270	170	69,5
400 A	810	360	205	69,5
630 A	900	360	205	69,5

AC
Fusible switches

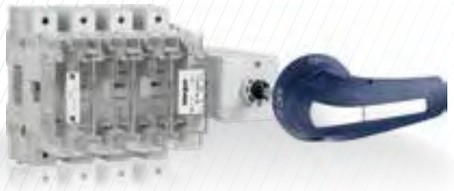
series **M11**

series **M21**

Fusible switches with high operating load capacity and a high level disconnection insulation; high reliability and safety in abnormal situations, available in two construction models, with a wide range of currents, fusible types and various accessories.

According to:
IEC/EN 60947-3
IEC/EN 61439-1
RoHs

Testing and approvals:



The fusible switches in its two series, are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electro-mechanical stress.

They combine in a compact unit the function of a switch - disconnector with the protection against overloads and short - circuits given by the fuses, these once installed remain fixed in the switch, ensuring a long electrical and mechanical life and safe operations for the user.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

The M21 serie consist of a sandwich-type body containing self-cleaning blade type contacts, with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life, externally has housings to insert fuses according to the appropriate format. The detent mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

The M11 series is of modular construction, with the contacts being moved by a cross shaft with tripping being positive opening.

Functional and ergonomic handle

- Good grip and excellent torque/ resistance
- Padlockable handle in **O OFF** position (up to three locks Ø 5-8 mm)
- Door interlock in **ON I** position
- When lock in **O OFF** position, door is interlocked
- Defeteable feature in **ON I** position (with the use of a tool for maintenance operations). Handle interlock is restored when closing
- Self-centering shaft for door handle

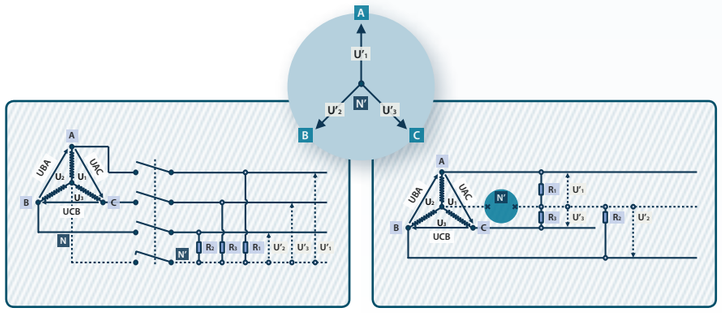


Neutral pole early make & late break



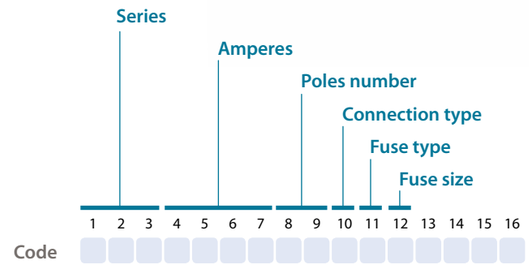
This safety feature prevents accidental overvoltage when making/breaking of loads connected between phase and neutral.

Due to the design in our 3P+N switch - disconnectors and changeover switches, the neutral contact closes before the main phases and opens later, thus ensuring this operation mode.



Range coding:

The M11|M21 series, are identified by a code that describes their most important characteristics as described below



series **M11**



1 2 3 4 5 6
M 1 1

Modular concept.

Fuse-links cylindrical, NH/DIN,BS.

Fuse cover interlock in the ON position.

Different handles depend on the installation mode.

series **M21**



1 2 3 4 5 6
M 2 1

Compact model.

Fuse-links NH/DIN,BS.

Fuse cover interlock in the ON position.

Different handles depend on the installation mode.

series **CIF21**



IP65

1 2 3 4 5 6 7
C I F 2 1 C

M11 metal enclosed fusible switch.

External padlockable handle with locking door in ON I position.

Removing door blocked by padlock when handle is in 0 OFF position.

series **CIF22**



IP65

1 2 3 4 5 6 7
C I F 2 2 C

M21 metal enclosed fusible switch.

External padlockable handle with locking door in ON I position.

Removing door blocked by padlock when handle is in 0 OFF position.

series M11

M11
Fusible switch base mounting 2P - 3P - 3P+N

Size 00

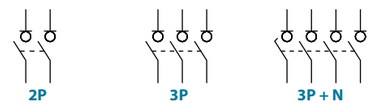
A 32|50|63|100

NFC 14x51 NH 00C
BS A1-A2-A3



	CODE - 50A	CODE - 63A	CODE - 100A
2P	M1100502PBC20	M1100632PBDB0	M1101002PBDB0
3P	M1100503PBC20	M1100633PBDB0	M1101003PBDB0
3P + N	M1100503NBC20	M1100633NBDB0	M1101003NBDB0
Fuses	NFC 14x51	NH 00C	NH 00C

	CODE - 32A	CODE - 63A
2P	M1100322PBBA0	M1100632PBBB0
3P	M1100323PBBA0	M1100633PBBB0
3P + N	M1100323NBBA0	M1100633NBBB0
Fuses	BS A1	BS A2 - BS A3*(Ø)



Technical information

CE EAC IEL

According to IEC / EN 60947-3

				32	50	63	100
Fuses	NH/DIN			-	-	00C	00C
	BS			A1	-	A2-A3*(Ø)	-
	NFC			-	14x51	-	-
Rated thermal current in ambient at 40 °C		Ith	A	32	50	63	100
Rated thermal current in enclosure		Ithe	A	-	-	63	100
Rated insulation voltage		Ui	V	800	800	800	800
Rated dielectric strength	50 Hz, 1 min		V	5000	5000	5000	5000
Rated impulse withstand voltage		Uimp	kV	8	8	8	8
Power dissipation in fuse links *(1)	NH/DIN		W	-	-	5,1	6,9
	BS			2,8	-	6,6	-
	NFC			-	4,7	-	-
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	400 V	AC21A	A	32	50	63	100
	400 V	AC22A	A	32	50	63	100
	400 V	AC23A	A	32	50	63	100
	500 V	AC21A	A	32	50	63	100
	500 V	AC22A	A	32	50	63	100
	500 V	AC23A	A	32	50	63	80
AC rated operational power *(3)	400 V	AC23A	kW	15	25	30	55

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation

*(2) Other voltages and / or utilization categories. Please consult

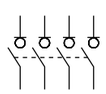
*(3) Indicative values: curent values depend on the motor manufacturer

			32	50	63	100
Rated capacitor power	400 V	kVAr	15	18	25	42
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	260	400	504	800
Rated making capacity	400 V; cos φ = 0,45	A	320	500	800	1000
Short - circuit behaviour						
Short - time withstand current *(4)		kA rms	100	100	100	100
Short - circuit making current *(4)		kA rms	50	50	50	50
Maximum cut - off current		kA (peak)	13	13	13	13
Maximum power dissipation		A^2s (x 10^3)	76	76	76	76
Minimum number of mechanical operation *(5)		Cycles	10000	10000	10000	10000
Maximum weight 2P		kg	0,7	0,7	0,7	0,7
Maximum weight 3P		kg	1,1	1,1	1,1	1,1
Maximum weight 3P+N		kg	1,5	1,5	1,5	1,5

*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values

*(5) Please consult us for more operations

*(Ø) Only fuses with diameter < 25 mm



4P

Also available 4P switches under request, consult reference

series M11

Accessories



Frontal external handle included shaft *(e1)
IP65
CODE DS-SA02



Emergency frontal external handle included shaft *(e1)
IP65
CODE DS-SR02



Direct handle
Frontal *CODE* DM1SI01
Side *CODE* DM1SYB1

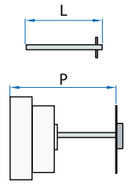


Side handle included shaft *(e1)
IP65
CODE DM1SLB1
CODE DM1SAB1 BS



Emergency side handle included shaft *(e1)
IP65
CODE DM1RLB1
CODE DM1SRB1 BS

Shafts



Standard shaft included *(e1)

L (mm)	P (mm)
250	144... 270

Extended shafts

Frontal external handle

L (mm)	P (mm)	CODE
387	144... 407	DS-EP05

Side handle

L (mm)	P (mm)	CODE
347	144... 367	DS-EP02



Terminal shrouds (1 kit for input or output)

2 UNITS	3 UNITS
DM1CU01	DM1CU02



Auxiliary contacts
1NO+1NC *CODE* DM1AUB1
2NO+2NC *CODE* DM1AUB2

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

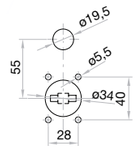


Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

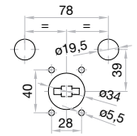
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple



Double

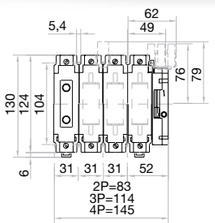


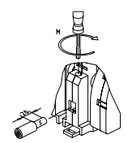
Fuses

Maximum dimensions

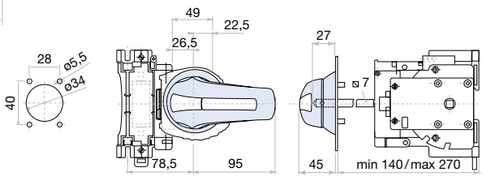
*(Ø) Only fuses with diameter < 25 mm

Dimensions (mm)

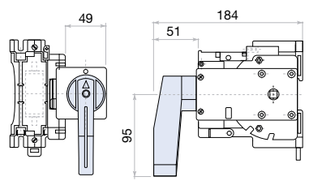




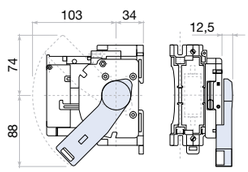
S max (Cu) mm²	M Nxm
35	3



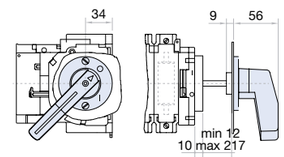
Frontal external handle



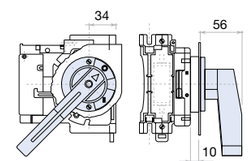
Frontal direct handle



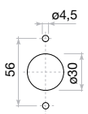
Side direct handle



Side handle



Side mounting



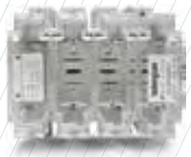
series M11

M11
Fusible switch base mounting 2P - 3P - 3P+N

Size 0

A 100|125|160

NFC 22x58 NH 00
BS A2-A3

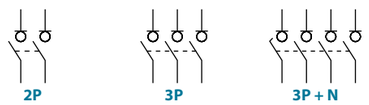






	CODE - 125A	CODE - 125A	CODE - 125A	CODE - 125A	CODE - 160A	CODE - 160A
2P	M1101252PBC30	M1101252PTC30	M1101252PBDB0	M1101252PTDB0	M1101602PBDB0	M1101602PTDB0
3P	M1101253PBC30	M1101253PTC30	M1101253PBDB0	M1101253PTDB0	M1101603PBDB0	M1101603PTDB0
3P + N	M1101253NBC30	M1101253NTC30	M1101253NBDB0	M1101253NTDB0	M1101603NBDB0	M1101603NTDB0
Fuses	NFC 22x58	NFC 22x58	NH 00	NH 00	NH 00	NH 00

	CODE - 100A	CODE - 100A
2P	M1101002PBB00	M1101002PTB00
3P	M1101003PBB00	M1101003PTB00
3P + N	M1101003NBB00	M1101003NTB00
Fuses	BS A2 - BS A3	BS A2 - BS A3



Technical information

CE EAC IEL

According to IEC / EN 60947-3

					100	125	160
Fuses		NH/DIN			-	00	00
		BS			A2-A3	-	-
		NFC			-	22x58	-
Rated thermal current in ambient at 40 °C			Ith	A	100	125	160
Rated thermal current in enclosure			Ithe	A	-	125	160
Rated insulation voltage			Ui	V	800	800	800
Rated dielectric strength		50 Hz, 1 min		V	6000	6000	6000
Rated impulse withstand voltage			Uimp	kV	8	8	8
Power dissipation in fuse links *(1)		NH/DIN		W	-	9,5	11,8
		BS			8,5	-	-
		NFC			-	12,5	-
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	400 V	AC21A	A	100	125	160
		400 V	AC22A	A	100	125	160
		400 V	AC23A	A	100	125	160
		500 V	AC21A	A	100	125	160
		500 V	AC22A	A	100	125	160
		500 V	AC23A	A	100	125	125
AC rated operational power *(3)	Pe	400 V	AC23A	kW	55	65	90

			100	125	160
Rated capacitor power	400 V	kVAr	42	52	60
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	800	1000	1280
Rated making capacity	400 V; cos φ = 0,45	A	1000	1250	1600
Short - circuit behaviour					
Short - time withstand current *(4)		kA rms	100	100	100
Short - circuit making current *(4)		kA rms	50	50	50
Maximum cut - off current		kA (peak)	17	17	17
Maximum power dissipation		A^2s (x 10^3)	190	190	190
Minimum number of mechanical operations *(5)		Cycles	10000	10000	10000
Maximum weight 2P		kg	1,2	1,2	1,2
Maximum weight 3P		kg	1,7	1,7	1,7
Maximum weight 3P+N		kg	2,2	2,2	2,2

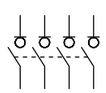
*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation

*(2) Other voltages and / or utilization categories. Please consult

*(3) Indicative values: curent values depend on the motor manufacturer

*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values

*(5) Please consult us for more operations

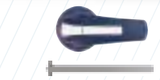


4P

Also available 4P switches under request, consult reference

series M11

Accessories



Frontal external handle included shaft *(e1)
IP65
CODE DS-SA02



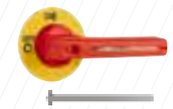
Emergency frontal external handle included shaft *(e1)
IP65
CODE DS-SR02



Direct handle
Frontal *CODE* DM1SI01
Side *CODE* DM1SYB1



Side handle included shaft *(e1)
IP65
CODE DM1SLB1



Emergency side handle included shaft *(e1)
IP65
CODE DM1RLB1

Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
250	144... 270

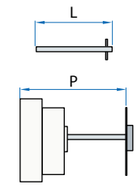
Extended shafts

Frontal external handle

L (mm)	P (mm)	CODE
387	144... 407	DS-EP05

Side handle

L (mm)	P (mm)	CODE
347	144... 367	DS-EP02





Terminal shrouds (1 kit for input or output)

2 UNITS	3 UNITS
DM1CU01	DM1CU02



Auxiliary contacts
1NO+1NC *CODE* DM1AUB1
2NO+2NC *CODE* DM1AUB2

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

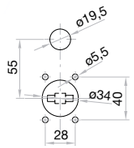


Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

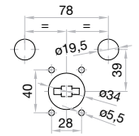
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple



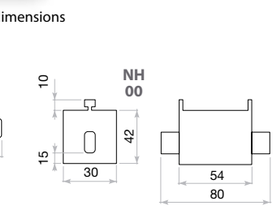
Double

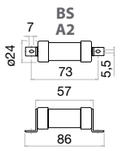


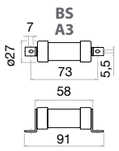
Fuses

Maximum dimensions

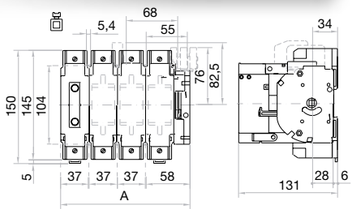




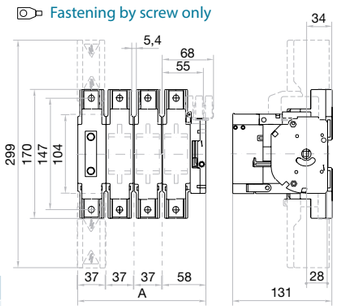


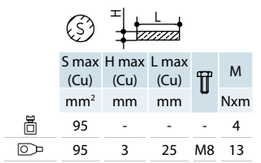


Dimensions (mm)



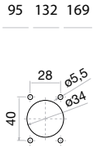
Fastening by screw only

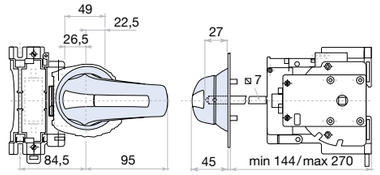




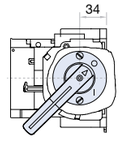
S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
95	-	-	-	4
95	3	25	M8	13

A		
2P	3P	4P
95	132	169

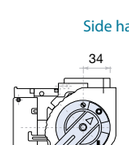




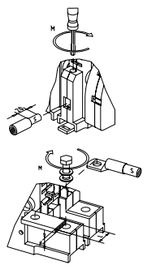
Frontal external handle

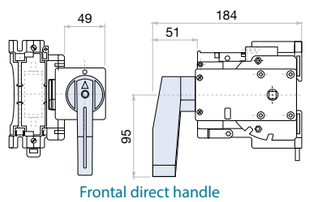


Side handle

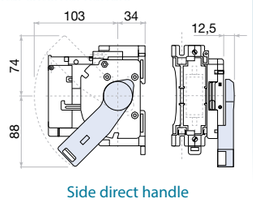


Side mounting





Frontal direct handle



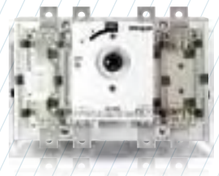
Side direct handle

M21
Fusible switch base mounting 3P - 3P+N

Size 1

A 160|200|250

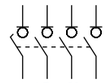
NH 0 BS A4
BS B1 BS B2





	CODE - 160A	CODE - 160A	CODE - 200A	CODE - 250A
3P	M2101603PSD00	M2101603PSB10	M2102003PSB20	M2102503PSB20
3P + N	M2101603NSD00	M2101603NSB10	M2102003NSB20	M2102503NSB20
Fuses	NH 0	BS A4	BS B1-BS B2	BS B1-BS B2


3P


3P + N

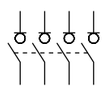
Technical information

CE EAC

According to IEC / EN 60947-3

				160	200	250
Fuses		NH/DIN	A	0	-	0S
		BS	A	A4	B1-B2	B1-B2
Rated thermal current in ambient at 40 °C		Ith	A	160	200	250
Rated thermal current in enclosure		Ithe	A	160	-	250
Rated insulation voltage		Ui	V	800	800	800
Rated dielectric strength		50 Hz, 1 min	kV	6000	6000	6000
Rated impulse withstand voltage		Uimp	kV	8	8	8
Power dissipation in fuse links *(1)		NH/DIN	W	13,5	-	17,8
		BS		11	13	16
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	Ue 400 V AC21A	A	160	200	250
		Ue 400 V AC22A	A	160	200	250
		Ue 400 V AC23A	A	160	200	250
		Ue 500 V AC21A	A	160	200	250
		Ue 500 V AC22A	A	160	200	250
		Ue 500 V AC23A	A	160	200	250
AC rated operational power *(3)	Pe	3x400 V AC23A	kW	90	110	132

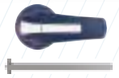
				160	200	250
Rated capacitor power	400 V	kVAr		60	75	100
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A		1280	1600	2000
Rated making capacity	400 V; cos φ = 0,45	A		1600	2000	2500
Conditional short - circuit current						
Fuse protected short-circuit withstand *(4)		kA rms		100	100	100
Fuse protected short-circuit making *(4)		kA rms		100	100	100
Maximum cut - off current		kA (peak)		26,3	26,3	26,3
Maximum power dissipation		A^2s (x 10^3)		478	478	478
Minimum number of mechanical operations *(5)		Cycles		10000	10000	10000
Maximum weight 3P		kg		3,1	3,1	3,1
Maximum weight 3P+N		kg		4	4	4


4P

Also available 4P switches under request, consult reference

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories; please consult us
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

Accessories



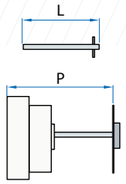
External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SR11



Direct handle
CODE DM2SI11



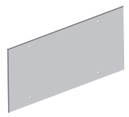
Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
227	180... 292

Extended shafts
Type 1

L (mm)	P (mm)	CODE
376	180... 441	DS-EP14

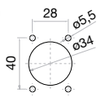


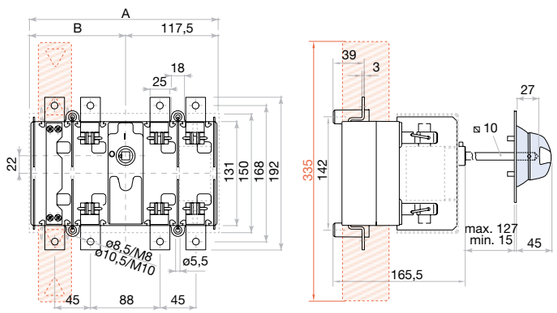
Rear protective plate

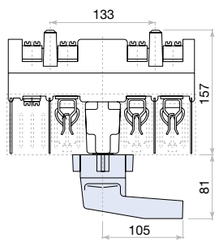
160-200 A		250 A	
3P	4P	3P	4P
DM2PP11	DM2PP12	DM2PP21	DM2PP22

Dimensions (mm)

Door drilling for external handle







A		B	
3P	4P	3P	4P
200	239	82,5	121,5


External handle top view



Terminal shrouds (1 kit for input or output)

3P INPUT	3P OUTPUT	4P INPUT / OUTPUT
DM2CU11	DM2CU12	DM2CU13



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

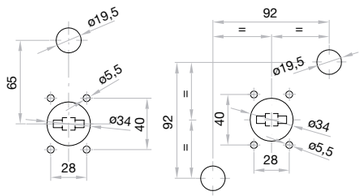


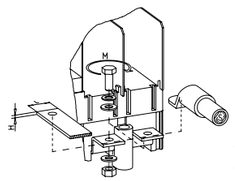
Safety key lock device
Simple *CODE* DS-CA11
Double *CODE* DS-CEB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple Double

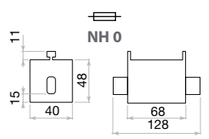


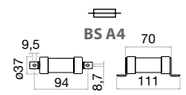


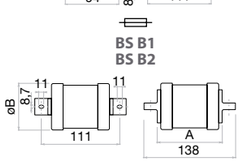
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
160 A	120	5	25	M8	13
200 A					
250 A	120	5	25	M10	24

Fuses

Maximum dimensions


NH 0


BS A4


BS B1
BS B2

	A	øB
	max	max
B1	70	37
B2	77	42

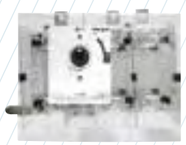
series M21

M21
Fusible switch base mounting 3P - 3P+N

Size 2

A 250|315|400

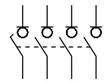
NH 1 NH 2 BS B1
BS B2 BS B3 BS B4



	CODE-250A	CODE-400A	CODE-315A	CODE-400A
3P	M2102503PSD10	M2104003PSD20	M2103153PSB40	M2104003PSB50
3P + N	M2102503NSD10	M2104003NSD20	M2103153NSB40	M2104003NSB50
Fuses	NH 1	NH 2	BS B1...BS B3	BS B1...BS B4





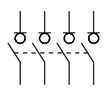
Technical information

CE EAC IEL

According to IEC / EN 60947-3

				250	315	400
Fuses		NH/DIN	A	1	-	2
		BS	A	-	B1-B3	B1-B4
Rated thermal current in ambient at 40 °C		Ith	A	250	315	400
Rated thermal current in enclosure		Ithe	A	250	-	400
Rated insulation voltage		Ui	V	1000	1000	1000
Rated dielectric strength		50 Hz, 1 min	kV	8000	8000	8000
Rated impulse withstand voltage		Uimp	kV	12	12	12
Power dissipation in fuse links *(1)		NH/DIN	W	18,7	-	30
		BS		-	24	29
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie Ue 400 V	AC21A	A	250	315	400
	Ue 400 V	AC22A	A	250	315	400
	Ue 400 V	AC23A	A	250	315	400
	Ue 500 V	AC21A	A	250	315	400
	Ue 500 V	AC22A	A	250	315	400
	Ue 500 V	AC23A	A	250	315	400
AC rated operational power *(3)	Pe 3x400 V	AC23A	kW	132	160	220

				250	315	400
Rated capacitor power	400 V		kVAr	115	150	200
Rated breaking capacity	400 V; cos φ = 0,35÷0,45		A	2000	2600	3200
Rated making capacity	400 V; cos φ = 0,45		A	2500	3150	4000
Conditional short - circuit current						
Fuse protected short-circuit withstand *(4)			kA rms	100	100	100
Fuse protected short-circuit making *(4)			kA rms	100	100	100
Maximum cut - off current			kA (peak)	43,3	43,3	43,3
Maximum power dissipation			A^2s (x 10^3)	1600	1600	1600
Minimum number of mechanical operations *(5)			Cycles	10000	10000	10000
Maximum weight 3P			kg	6,6	6,6	6,6
Maximum weight 3P+N			kg	8	8	8



Also available 4P switches under request, consult reference

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories; please consult us
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

series M21

Accessories



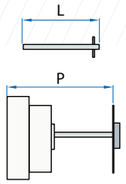
External handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-LA22



Emergency external handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE DS-LR22



Direct handle
CODE DM2SI21



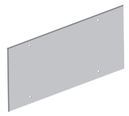
Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
239	216... 286

Extended shafts Type 1

L (mm)	P (mm)	CODE
345	216... 392	DS-EP23

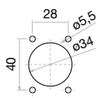


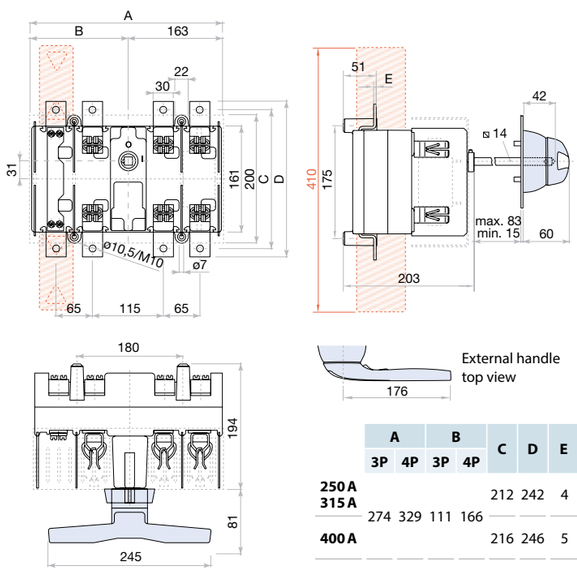
Rear protective plate

3P	4P
DM2PP21	DM2PP22

Dimensions (mm)

Door drilling for external handle





External handle top view

	A 3P	A 4P	B 3P	B 4P	C	D	E
250 A 315 A	274	329	111	166	212	242	4
400 A					216	246	5



Terminal shrouds (1 kit for input or output)

3P INPUT	3P OUTPUT	4P INPUT / OUTPUT
DM2CU21	DM2CU22	DM2CU23



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

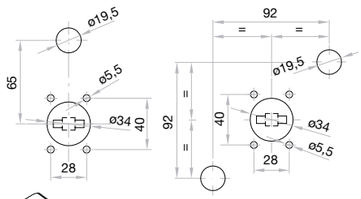


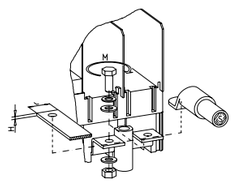
Safety key lock device
Simple CODE DS-CB21
Double CODE DS-CF21

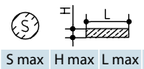
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple Double



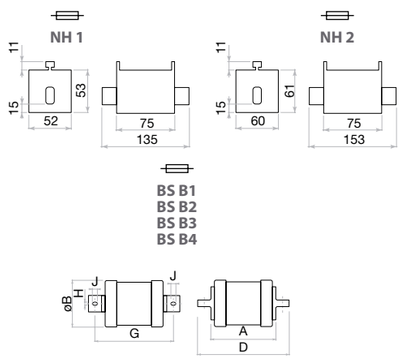




S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
240	6	40	M10	24

Fuses

Maximum dimensions



	A max	øB max	D max	G nom	H nom	J min
B1	70	37				
B2 B3	77	42	138	111	8,7	11
B4	83	66				

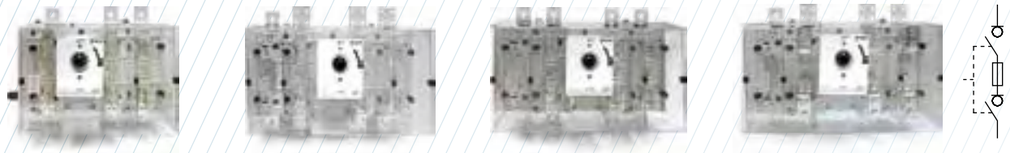
series M21

M21
Fusible switch base mounting 3P - 3P+N

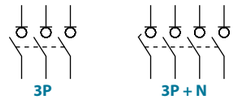
Size 3

A 630|800

NH 3 BS C1 BS C2 BS C3



	CODE - 630A	CODE - 800A	CODE - 630A	CODE - 800A
3P	M2106303PSD30	M2108003PSD30	M2106303PSB70	M2108003PSB80
3P + N	M2106303NSD30	M2108003NSD30	M2106303NSB70	M2108003NSB80
Fuses	NH 3	NH 3	BS C1...BS C2	BS C1...BS C3



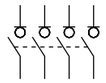
Technical information

CE EAC IEL

According to IEC / EN 60947-3

				630	800
Fuses		NH/DIN	A	3	3
		BS	A	C1-C2	C1-C3
Rated thermal current in ambient at 40 °C		Ith	A	630	800
Rated thermal current in enclosure		Ithe	A	630	725
Rated insulation voltage		Ui	V	1000	1000
Rated dielectric strength		50 Hz, 1 min	kV	8000	8000
Rated impulse withstand voltage		Uimp	kV	12	12
Power dissipation in fuse links *(1)		NH/DIN	W	48	57
		BS		44	63
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie Ue 400 V	AC21A	A	630	800
	Ue 400 V	AC22A	A	630	800
	Ue 400 V	AC23A	A	630	630
	Ue 500 V	AC21A	A	630	800
	Ue 500 V	AC22A	A	630	800
	Ue 500 V	AC23A	A	630	630
AC rated operational power *(3)	Pe 3x400 V	AC23A	kW	355	355

			630	800
Rated capacitor power	400 V	kVAr	250	325
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	5100	5100
Rated making capacity	400 V; cos φ = 0,45	A	6300	6300
Conditional short - circuit current				
Fuse protected short-circuit withstand *(4)		kA rms	100	100
Fuse protected short-circuit making *(4)		kA rms	100	100
Maximum cut - off current		kA (peak)	60,8	60,8
Maximum power dissipation		A^2s (x 10^3)	4600	4600
Minimum number of mechanical operations *(5)		Cycles	5000	5000
Maximum weight 3P		kg	13	13
Maximum weight 3P+N		kg	15	15



Also available 4P switches under request, consult reference

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation

*(2) Other voltages and / or utilization categories; please consult us

*(3) Indicative values: curent values depend on the motor manufacturer

*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values

*(5) Please consult us for more operations

series M21

Accessories



» External handle included shaft *(e1)

IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12

CODE DS-LA31



» Emergency external handle included shaft *(e1)

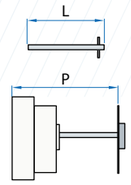
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12

CODE DS-LR31



» Direct handle

CODE DM2SI31



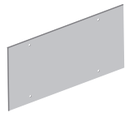
» Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
186	235... 286

Extended shafts Type 1

L (mm)	P (mm)	CODE
345	235... 445	DS-EP23



» Rear protective plate

3P	4P
DM2PP31	DM2PP32



» Terminal shrouds (1 kit for input or output)

3P INPUT	3P OUTPUT	4P INPUT / OUTPUT
DM2CU31	DM2CU32	DM2CU33



» Auxiliary contacts

1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



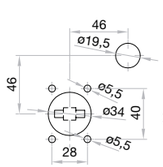
» Safety key lock device

Simple *CODE* DS-CB31
Double *CODE* DS-CF31

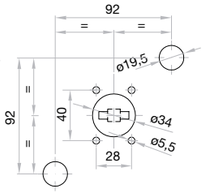
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple



Double

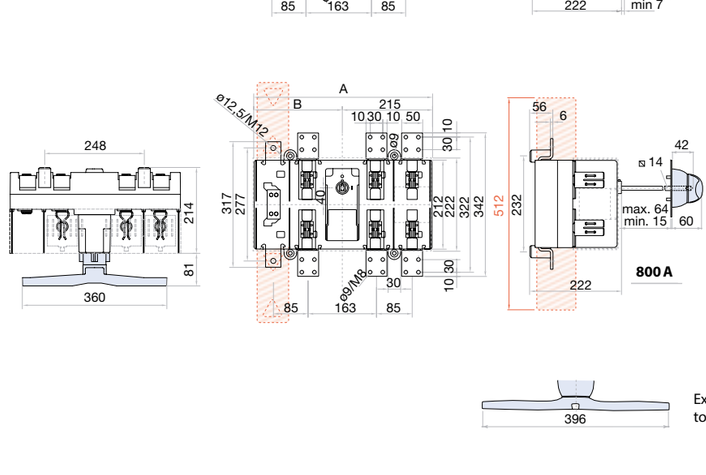


Dimensions (mm)

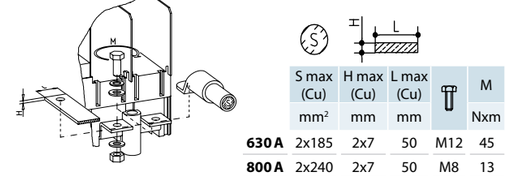
Door drilling for external handle



A		B	
3P	4P	3P	4P
381	426	166	211



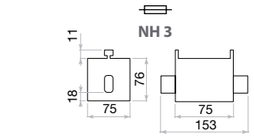
External handle top view

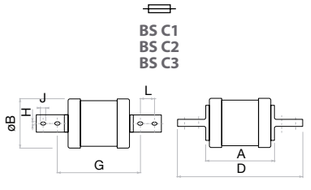


	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
630 A	2x185	2x7	50	M12	45
800 A	2x240	2x7	50	M8	13

Fuses

Maximum dimensions



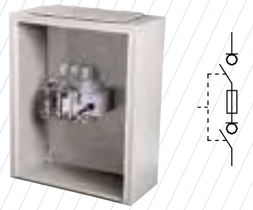


	A	øB	D	G	H	J	L
	max	max	max	nom	nom	min	min
C1	83	66				11	
C2	85	77	212	133	10,3		25,4
C3	89	84				12,5	

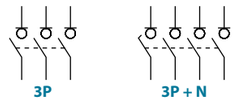
CIF21
Metal enclosed fusible switch IP65 3P - 3P+N

Size 00

A 63|100



	CODE - 63A	CODE - 100A
3P	CIF21C00633PBDB	CIF21C01003PBDB
3P + N	CIF21C00633NBDB	CIF21C01003NBDB



Technical information

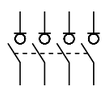
CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					63	100
Fuses		NH/DIN			00C	00C
Rated thermal current in enclosure 40°C		Ithe		A	63	100
Rated insulation voltage		Ui		V	800	800
Rated dielectric strength		50 Hz, 1 min		V	5000	5000
Rated impulse withstand voltage		Uimp		kV	8	8
Power dissipation in fuse links *(1)		NH/DIN		W	5,1	6,9
		BS			6,6	-
		NFC			-	-
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	400 V	AC21A	A	63	100
		400 V	AC22A	A	63	100
		400 V	AC23A	A	63	100
		500 V	AC21A	A	63	100
		500 V	AC22A	A	63	100
		500 V	AC23A	A	63	80
AC rated operational power *(3)	Pe	400 V	AC23A	kW	30	55

				63	100
Rated capacitor power	400 V		kVAr	25	42
Rated breaking capacity	400 V; cos φ = 0,35÷0,45		A	504	800
Rated making capacity	400 V; cos φ = 0,45		A	800	1000
Short - circuit behaviour					
Short - time withstand current *(4)		kA rms		100	100
Short - circuit making current *(4)		kA rms		50	50
Maximum cut - off current		kA (peak)		13	13
Maximum power dissipation		A^2s (x 10^3)		76	76
Minimum number of mechanical operation *(5)		Cycles		10000	10000
Maximum weight 2P			kg	Consult	
Maximum weight 3P			kg	Consult	
Maximum weight 3P+N			kg	Consult	

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories. Please consult
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations



Also available 4P switches under request, consult reference

Accessories



External handle included
IP65



Emergency external handle under request
IP65



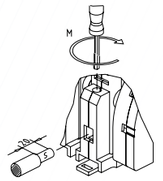
Auxiliary contacts
1NO+1NC *CODE* DM1AUB1
2NO+2NC *CODE* DM1AUB2

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



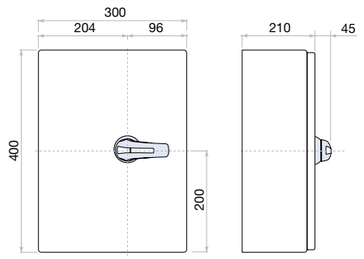
Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

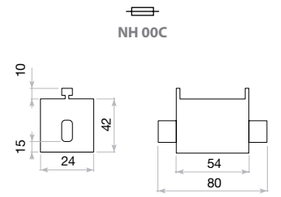
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



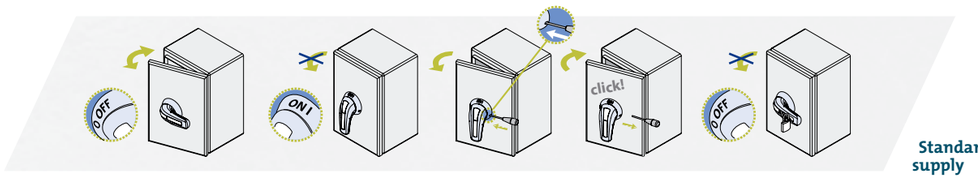
S max (Cu)	M
mm^2	Nxm
35	3

Dimensions (mm)





Fuse max dimensions

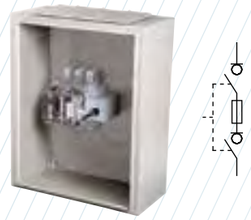


Standard supply

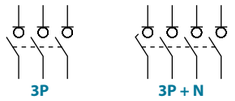
CIF21
Metal enclosed fusible switch IP65 3P - 3P+N

Size 0

A 125 | 160



	CODE - 125A	CODE - 160A	CODE - 125A	CODE - 160A
3P	CIF21C01253PBDB	CIF21C01603PBDB	CIF21C01253PTDB	CIF21C01603PTDB
3P + N	CIF21C01253NBDB	CIF21C01603NBDB	CIF21C01253NTDB	CIF21C01603NTDB



Technical information

CE

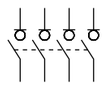
According to IEC/EN 60947-3
IEC/EN 61439-1

					125	160
Fuses		NH/DIN			00	00
Rated thermal current in enclosure 40°C		Ithe		A	125	160
Rated insulation voltage		Ui		V	800	800
Rated dielectric strength		50 Hz, 1 min		V	6000	6000
Rated impulse withstand voltage		Uimp		kV	8	8
Power dissipation in fuse links *(1)		NH/DIN		W	9,5	11,8
		BS			-	-
		NFC			12,5	-
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	400 V	AC21A	A	125	160
		400 V	AC22A	A	125	160
		400 V	AC23A	A	125	160
		500 V	AC21A	A	125	160
		500 V	AC22A	A	125	160
		500 V	AC23A	A	125	125
AC rated operational power *(3)	Pe	400 V	AC23A	kW	65	90

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories. Please consult
*(3) Indicative values: curent values depend on the motor manufacturer

			125	160
Rated capacitor power	400 V	kVAr	52	60
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	1000	1280
Rated making capacity	400 V; cos φ = 0,45	A	1250	1600
Short - circuit behaviour				
Short - time withstand current *(4)		kA rms	100	100
Short - circuit making current *(4)		kA rms	50	50
Maximum cut - off current		kA (peak)	17	17
Maximum power dissipation		A^2s (x 10^3)	190	190
Minimum number of mechanical operations *(5)		Cycles	10000	10000
Maximum weight 2P		kg	Consult	
Maximum weight 3P		kg	Consult	
Maximum weight 3P+N		kg	Consult	

*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations



Also available 4P switches under request, consult reference

Accessories



» External handle included
IP65



» Emergency external handle under request
IP65



» Auxiliary contacts
1NO+1NC *CODE* DM1AUB1
2NO+2NC *CODE* DM1AUB2

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Terminal shrouds
(1 kit for input or output)

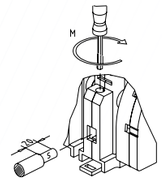
2 UNITS	3 UNITS
DM1CU01	DM1CU02



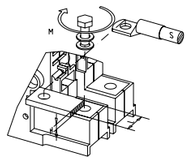
» Safety key lock device
Simple *CODE* DS-CAB1
Double *CODE* DS-CEB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

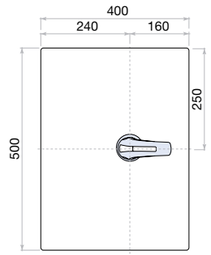
Dimensions (mm)

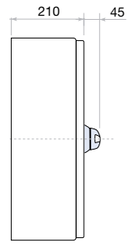


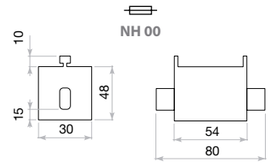
	S max (Cu) mm²	M Nxm
125 A 160 A	95	4



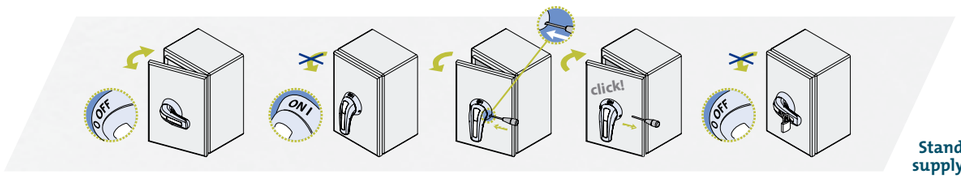
	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
125 A 160 A	95	3	25	M8	13







Fuse max dimensions



Standard supply

CIF22
Metal enclosed fusible switch IP65 3P - 3P+N

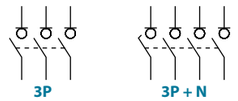
Size 1
A 160





CODE - 160A

3P	CIF22C01603PSD0
3P + N	CIF22C01603NSD0



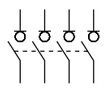
Technical information

CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					160
Fuses			NH/DIN		0
Rated thermal current in enclosure 40ºC			Ithe	A	160
Rated insulation voltage			Ui	V	800
Rated dielectric strength			50 Hz, 1 min	kV	6000
Rated impulse withstand voltage			Uimp	kV	8
Power dissipation in fuse links *(1)			NH/DIN	W	13,5
			BS		11
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	Ue 400 V	AC21A	A	160
		Ue 400 V	AC22A	A	160
		Ue 400 V	AC23A	A	160
		Ue 500 V	AC21A	A	160
		Ue 500 V	AC22A	A	160
		Ue 500 V	AC23A	A	160
AC rated operational power *(3)	Pe	3x400 V	AC23A	kW	90

			160
Rated capacitor power	400 V	kVAr	60
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	1280
Rated making capacity	400 V; cos φ = 0,45	A	1600
Conditional short - circuit current			
Fuse protected short-circuit withstand *(4)		kA rms	100
Fuse protected short-circuit making *(4)		kA rms	100
Maximum cut - off current		kA (peak)	26,3
Maximum power dissipation		A^2s (x 10^3)	478
Minimum number of mechanical operations *(5)		Cycles	10000
Maximum weight 3P		kg	Consult
Maximum weight 3P+N		kg	Consult



Also available 4P switches under request, consult reference

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories; please consult us
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations

Accessories



External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
(1 kit for input or output)

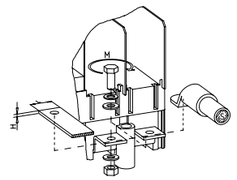
INPUT 3P	OUTPUT 3P	INPUT/OUTPUT 4P
DM2CU11	DM2CU12	DM2CU13



Safety key lock device
Simple CODE DS-CA11
Double CODE DS-CEB1

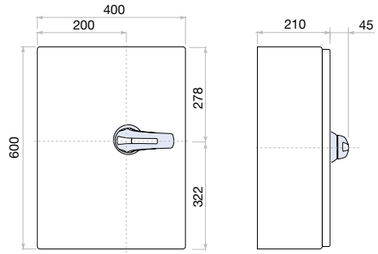
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

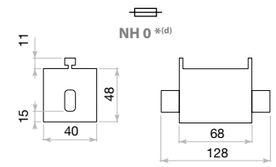
Dimensions (mm)





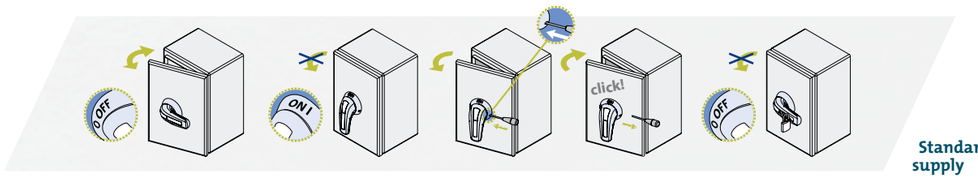
S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
120	5	25	M8	13





Fuse max dimensions

*(d) Other fuses type, may be required changing the dimensions, please consult



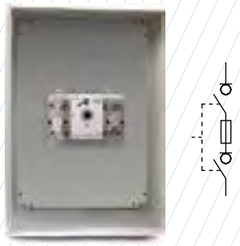
Standard supply

series CIF22

CIF22
Metal enclosed fusible switch IP65 3P - 3P+N

Size 2

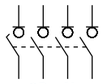
A 250 | 400



	CODE - 250A	CODE - 400A
3P	CIF22C02503PSD1	CIF22C04003PSD2
3P + N	CIF22C02503NSD1	CIF22C04003NSD2



3P



3P + N

Technical information

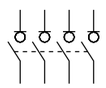
CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					250	400
Fuses			NH/DIN		1	2
Rated thermal current in enclosure 40ºC			Ithe	A	250	400
Rated insulation voltage			Ui	V	1000	1000
Rated dielectric strength			50 Hz, 1 min	kV	8000	8000
Rated impulse withstand voltage			Uimp	kV	12	12
Power dissipation in fuse links *(1)			NH/DIN	W	18,7	30
			BS		-	29
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	Ue 400 V	AC21A	A	250	400
		Ue 400 V	AC22A	A	250	400
		Ue 400 V	AC23A	A	250	400
		Ue 500 V	AC21A	A	250	400
		Ue 500 V	AC22A	A	250	400
		Ue 500 V	AC23A	A	250	400
AC rated operational power *(3)	Pe	3x400 V	AC23A	kW	132	220

			250	400
Rated capacitor power	400 V	kVAr	115	200
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	2000	3200
Rated making capacity	400 V; cos φ = 0,45	A	2500	4000
Conditional short - circuit current				
Fuse protected short-circuit withstand *(4)		kA rms	100	100
Fuse protected short-circuit making *(4)		kA rms	100	100
Maximum cut - off current		kA (peak)	43,3	43,3
Maximum power dissipation		A^2s (x 10^3)	1600	1600
Minimum number of mechanical operations *(5)		Cycles	10000	10000
Maximum weight 3P		kg	Consult	
Maximum weight 3P+N		kg	Consult	

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories; please consult us
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations



4P

También disponibles interruptores 4P bajo pedido, consulte referencia

series CIF22

Accessories



External handle included

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts

1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

(1 kit for input or output)

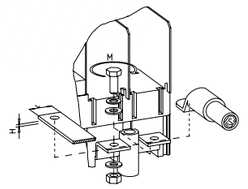
INPUT 3P	*OUTPUT* 3P	*INPUT/OUTPUT* 4P
DM2CU21	DM2CU22	DM2CU23



Safety key lock device

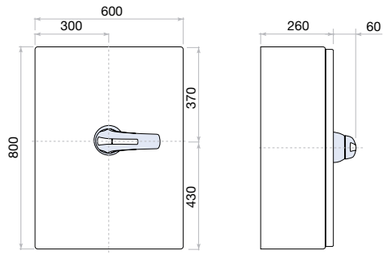
Simple *CODE* DS-CB21
Double *CODE* DS-CF21

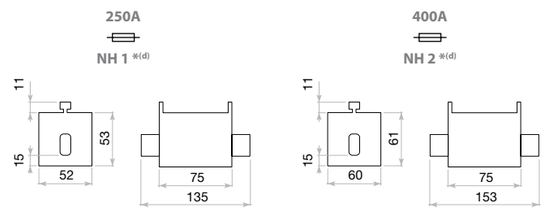
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
240	6	40	M10	24

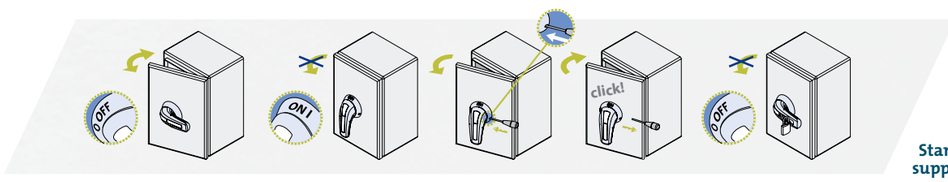
Dimensions (mm)





Fuse max dimensions

*(d) Other fuses type, may be required changing the dimensions, please consult



Standard supply

CIF22
Metal enclosed fusible switch IP65 3P - 3P+N

Size 3

A 630 | 800

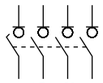




	CODE - 630A	CODE - 800A
3P	CIF22C06303PSD3	CIF22C08003PSD3
3P + N	CIF22C06303NSD3	CIF22C08003NSD3



3P



3P + N

Technical information

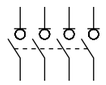
CE

According to IEC/EN 60947-3
IEC/EN 61439-1

					630	800
Fuses			NH/DIN		3	3
Rated thermal current in enclosure 40°C			Ithe	A	630	725
Rated insulation voltage			Ui	V	1000	1000
Rated dielectric strength			50 Hz, 1 min	kV	8000	8000
Rated impulse withstand voltage			Uimp	kV	12	12
Power dissipation in fuse links *(1)			NH/DIN	W	48	57
			BS		44	63
AC rated operational current *(2) (Rated frequency 50 / 60 Hz)	Ie	Ue 400 V	AC21A	A	630	800
		Ue 400 V	AC22A	A	630	800
		Ue 400 V	AC23A	A	630	630
		Ue 500 V	AC21A	A	630	800
		Ue 500 V	AC22A	A	630	800
		Ue 500 V	AC23A	A	630	630
AC rated operational power *(3)	Pe	3x400 V	AC23A	kW	355	355

			630	800
Rated capacitor power	400 V	kVAr	250	325
Rated breaking capacity	400 V; cos φ = 0,35÷0,45	A	5100	5100
Rated making capacity	400 V; cos φ = 0,45	A	6300	6300
Conditional short - circuit current				
Fuse protected short-circuit withstand *(4)		kA rms	100	100
Fuse protected short-circuit making *(4)		kA rms	100	100
Maximum cut - off current		kA (peak)	60,8	60,8
Maximum power dissipation		A^2s (x 10^3)	4600	4600
Minimum number of mechanical operations *(5)		Cycles	5000	5000
Maximum weight 3P		kg	Consult	
Maximum weight 3P+N		kg	Consult	

*(1) Power dissipation values of fuse - links used in type tests. Please consult for fuse - links with higher power dissipation
*(2) Other voltages and / or utilization categories; please consult us
*(3) Indicative values: curent values depend on the motor manufacturer
*(4) With a protective device limiting the cut - off current and the joule integral to the indicated values
*(5) Please consult us for more operations



4P

Also available 4P switches under request, consult reference

Accessories



External handle included

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Emergency external handle under request

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts

1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

(1 kit for input or output)

INPUT 3P	OUTPUT 3P	INPUT/OUTPUT 4P
DM2CU31	DM2CU32	DM2CU33

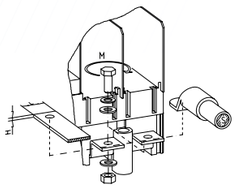


Safety key lock device

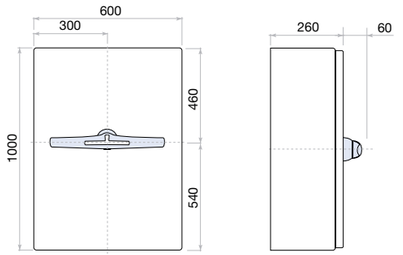
Simple CODE DS-CB31
Double CODE DS-CF31

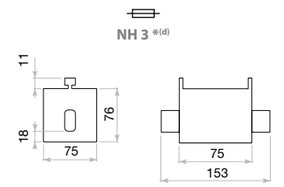
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Dimensions (mm)



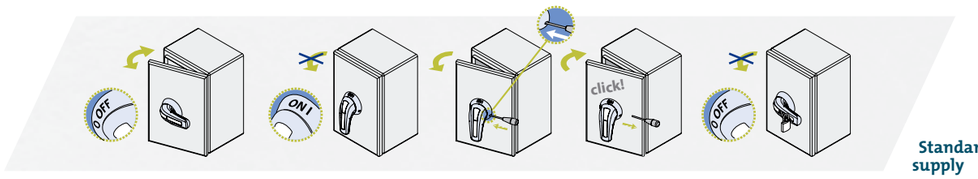
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
630 A	2x185	2x7	50	M12	45
800 A	2x240	2x7	50	M8	13





Fuse max dimensions

*(d) Other fuses type, may be required changing the dimensions, please consult



Standard supply

Changeover switches

series
CCF|CCP|S5F|S5B

Changeover switches with high operating load capacity and a high level disconnection insulation; high reliability and safety in abnormal situations, available in different construction models, with a wide range of currents, motorized units and various accessories.

According to:
IEC/EN 60947-3
IEC/EN 61439-1
RoHS

Testing and approvals:



The changeover switches in its different series, are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a sandwich-type body containing self-cleaning blade type contacts, with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life. The detent mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

The compact models are with visible cut-off and performed internally the common output without the need for external connections.

Functional and ergonomic handle

- Good grip and excellent torque/ resistance
- Padlockable handle in **O OFF** position (up to three locks Ø 5-8 mm)
- Door interlock in **ON I - ON II** position
- Self-centering shaft for door handle

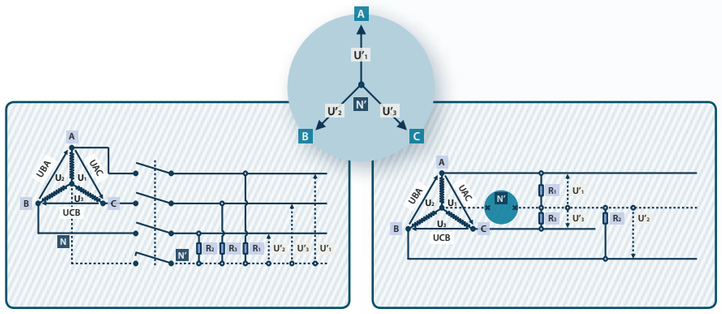


Neutral pole early make & late break



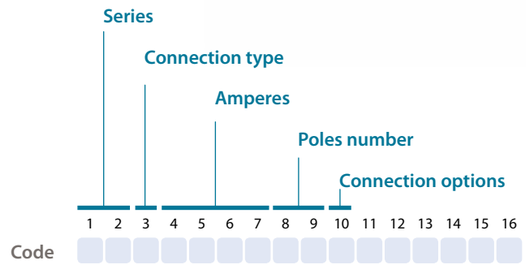
This safety feature prevents accidental overvoltage when making/breaking of loads connected between phase and neutral.

Due to the design in our 3P+N switch - disconnectors and changeover switches, the neutral contact closes before the main phases and opens later, thus ensuring this operation mode.



Range coding:

The CCF|CCP|S5L|S5F|CCP series, are identified by a code that describes their most important characteristics as described below



series CCF



1 2 3 4 5
C C F

Compact model.
Visible cut-off.
Common output from the front.
Wide range of currents.
Base mounting by screws.
External or direct handle.

series CCP



1 2 3 4 5
C C P

Compact model.
Visible cut-off.
Common output from the rear.
Wide range of currents.
Base mounting by screws.
External or direct handle.

series S5L



1 2 3 4 5
S 5 L

Line arrangement.
Base mounting by screws.
External or direct handle.

series S5F



1 2 3 4 5
S 5 F

Back to back arrangement.
Base mounting by screws.
External or direct handle.

series S5B



By-pass

1 2 3 4 5
S 5 B

Back to back arrangement.
Base mounting by screws.
External or direct handle.

series CTR2



1 2 3 4 5
C T R 2

Manual changeover switch in metallic enclosure.
External padlockable handle with locking door in ON I - ON II positions.

series CTRC



1 2 3 4 5
C T R C

Motorized changeover switch in metallic enclosure.
Outdoor lights position indicators (mains - 0 - generator).
Power connections on the bottom for direct access.
Power part protected against accidental contact.
Physical separation between power and control parts.
Including manual handle (for emergency operation or maintenance).
Other special combinations under request.

series CTRC



1 2 3 4 5
C T R C

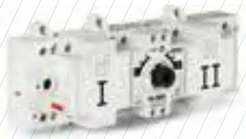
Motorized changeover switch in metallic enclosure with automatic transfer switch for the generator control with automated switching Main - Gen management.
Configurable through software programming.
Power part protected against accidental contact.
Including manual handle (for emergency operation or maintenance).

series S5L

S5000L
Changeover switch base mounting 3P - 3P+N

Size 00

A 40|63|80



	CODE - 40A	CODE - 63A	CODE - 80A
3P	S5L00403PB0	S5L00633PB0	S5L00803PB0
3P + N	S5L00403NB0	S5L00633NB0	S5L00803NB0



Technical information

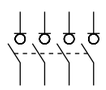
According to IEC / EN 60947-3

tests:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

				40	63	80
Rated thermal current	Ith	in ambient at 40° C	A	50	63	80
Rated insulation voltage	Ui		V	800	800	800
Rated dielectric strength	50 Hz., 1 min.		V	3500	3500	3500
Rated impulse withstand voltage	Uimp		kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V AC21A	A	50	63	80
		400V AC22A	A	50	63	80
		500V AC21A	A	50	63	80
		500V AC22A	A	50	63	63
		690V AC21A	A	50	63	63
		690V AC22A	A	40	50	50
AC Rated operational power *(2)	Pe	3x400V AC23A	kW	27,7	34,9	34,9
		3x500V AC23A	kW	27,7	34,6	34,6
		3x690V AC23A	kW	23,9	30,5	30,5

				40	63	80
Rated capacitor power	400V, sen φ = 0,65		kVAr	22,5	28,3	28,3
Rated breaking capacity	400V	AC22A	A	150	189	240
Rated making capacity	400V	AC22A	A	150	189	240
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	5	5	5
Short - time withstand current (1 sec.)	Icw		kA rms	3	3	3
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1500	1500	1500
Maximum weight (3/4 poles)			Kg	0,8/0,8	0,8/0,8	0,8/0,8



4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5L

Accessories



Direct handle
CODE D5LSI01



Bridging links (4 pieces)
CODE D5LPCB1

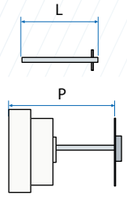


External handle included shaft *(e1)
IP65
CODE D5LLA01



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
177	85... 180,5

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
250	85... 253,5	DS-EP04

Type 2

L (mm)	P (mm)	CODE
387	85... 390,5	DS-EP05

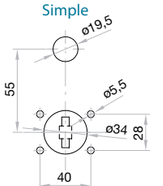


Safety key lock devices
Simple *CODE* D5LCBB1
Double *CODE* D5LCEB1

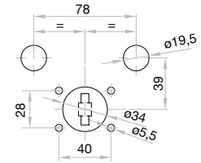
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

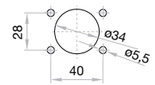


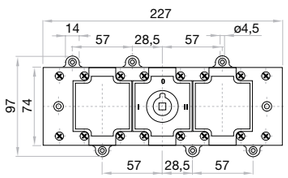
Double

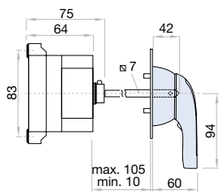


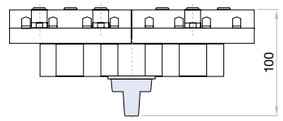
Dimensions (mm)

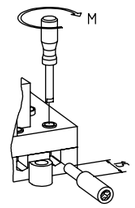
Door drilling for external handle











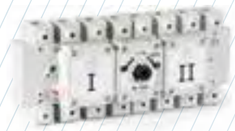
S max (Cu)	M
mm²	Nxm
25	2

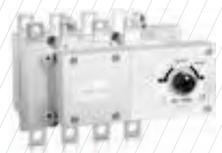
series S5L|S5F

S5000L | S5000F
Changeover switch base mounting 3P - 3P+N

Size 0

A 125|160|200







	CODE - 125A	CODE - 160A	CODE - 125A	CODE - 160A	CODE - 200A
3P	S5L01253PB0	S5L01603PB0	S5F01253PS0	S5F01603PS0	S5F02003PS0
3P + N	S5L01253NB0	S5L01603NB0	S5F01253NS0	S5F01603NS0	S5F02003NS0



Technical information

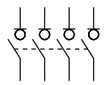
tests:

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According to IEC / EN 60947-3

					125	160	200
Rated thermal current	Ith	in ambient at 40° C		A	125	160	200
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	4000	4000	4000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	125	160	200
		400V	AC22A	A	125	160	200
		500V	AC21A	A	125	160	200
		500V	AC22A	A	125	160	200
		690V	AC21A	A	125	160	180
		690V	AC22A	A	100	125	160
		800V	AC20A	A	125	160	200
		1000V	AC20A	A	125	160	200
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	69,2	88,6	88,6
		3x500V	AC23A	kW	69,2	88,6	88,6
		3x690V	AC23A	kW	76,4	76,4	76,4

				125	160	200
Rated capacitor power	400V, sen φ = 0,65		kVAr	56,2	72	90
Rated breaking capacity	400V	AC22A	A	375	480	600
Rated making capacity	400V	AC22A	A	375	480	600
Short - circuit behaviour						
Short - circuit making capacity *(3)		Icm	kA (peak)	13	13	13
Short - time withstand current (1 sec.)		Icw	kA rms	7	7	7
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	1000
Maximum weight (3/4 poles)		S5L	Kg	1,8/2	1,8/2	-
		S5F	Kg	1,8/2,1	1,8/2,1	1,9/2,2



Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series S5L|S5F

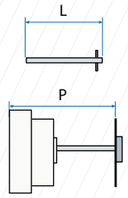
Accessories



Direct handle
CODE D5LSI01



External handle included shaft *(e1)
IP65
CODE D5LLA01



Shafts

Standard shaft included *(e1)

	L (mm)	P (mm)
S5F	177	163... 250,5
S5L	177	87... 198

Shaft extensions

Type 1

	L (mm)	P (mm)	CODE
S5F	250	163... 323,5	DS-EP04
S5L	250	87... 271	DS-EP04

Type 2

	L (mm)	P (mm)	CODE
S5F	387	163... 460,5	DS-EP05
S5L	387	87... 408	DS-EP05



Auxiliary contacts

1NO+1NC	CODE S5F	DS-AU11
	CODE S5L	D5LAU01
2NO+2NC	CODE S5F	DS-AU12
	CODE S5F	D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU01
(1 unit for input or output only frontal side)



Bridging links (4 pieces)
CODE S5F D5LPC03
CODE S5L D5LPC01



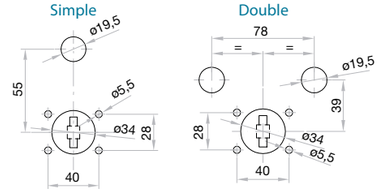
DIN rail mounting
CODE DS-DN01
(only for S5L changeover switches, order two kits)



Safety key lock devices
Simple *CODE* D5LCBB1
Double *CODE* D5LCEB1

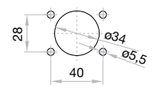
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

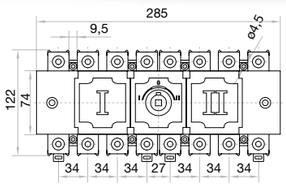
Door drilling for handle and keylock device

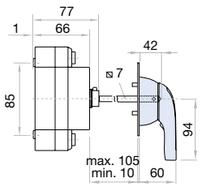


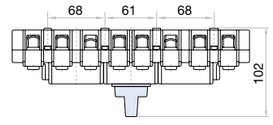
Dimensions (mm)

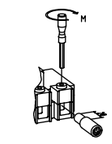
Door drilling for external handle



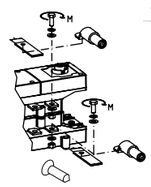


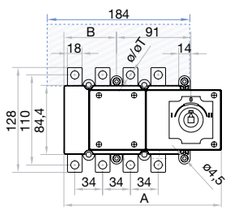


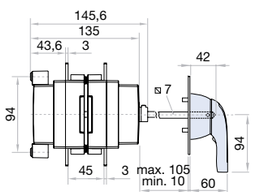


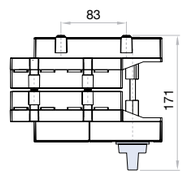


	S max (Cu) mm²	M Nxm
125 A 160 A	95	4

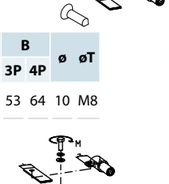




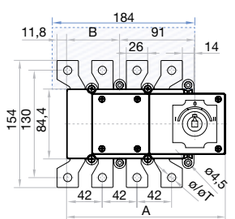


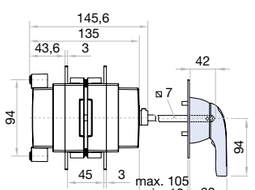


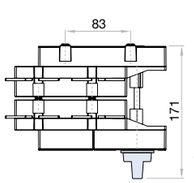
	A 3P	A 4P	B 3P	B 4P	ø	øT
125 A 160 A	181	192	53	64	10	M8



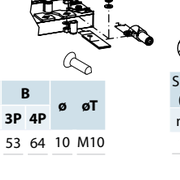
	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm	M Nxm
	95	5	25	M8 13







	A 3P	A 4P	B 3P	B 4P	ø	øT
200 A	181	192	53	64	10	M10

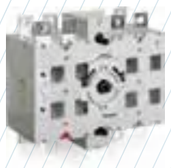


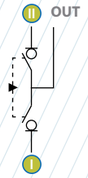
	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm	M Nxm
	120	5	30	M10 18

series CCF|CCP

CCF | CCP
Changeover switch base mounting 3P - 3P+N

Size 1
A 200|250|315|400

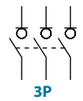


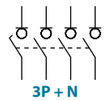






		CODE - 200A	CODE - 250A	CODE - 315A	CODE - 400A
CCF	3P	CCF02003PS0	CCF02503PS0	CCF03153PS0	CCF04003PS0
	3P + N	CCF02003NS0	CCF02503NS0	CCF03153NS0	CCF04003NS0
CCP	3P	CCP02003PS0	CCP02503PS0	CCP03153PS0	CCP04003PS0
	3P + N	CCP02003NS0	CCP02503NS0	CCP03153NS0	CCP04003NS0


3P

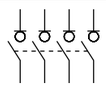

3P + N

Technical information

According to IEC / EN 60947-3

					200	250	315	400
Rated thermal current	Ith	in ambient at 40° C		A	200	250	315	400
Rated insulation voltage	Ui			V	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	6000	6000	6000	6000
Rated impulse withstand voltage	Uimp			kV	8	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	200	250	315	400
		400V	AC22A	A	200	250	315	400
		500V	AC21A	A	200	250	315	400
		500V	AC22A	A	200	250	315*(5)	400*(5)
		690V	AC21A	A	200	250	315	400
		690V	AC22A	A	160	200	250	315*(5)
		800V	AC20A	A	200	250	315	400
		1000V	AC20A	A	200	250	315	400
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	80	90	100	125
		3x500V	AC23A	kW	78	94	100	125
		3x690V	AC23A	kW	69	86	108	138

				200	250	315	400
Rated capacitor power	400V, sen φ = 0,65		kVAr	90	104	131	166
Rated breaking capacity	400V	AC22A	A	600	750	945	1200
Rated making capacity	400V	AC22A	A	600	750	945	1200
Short - circuit behaviour							
Short - circuit making capacity *(3)	Icm		kA (peak)	12	12	12	12
Short - time withstand current (1 sec.)	Icw		kA rms	8	8	8	8
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	1000	1000
Maximum weight (3/4 poles)		CCF	Kg	4,8/5,3	4,8/5,3	5/5,5	5/5,5
		CCP	Kg	5,3/5,9	5,3/5,9	5,5/6	5,5/6


4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

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series CCF|CCP

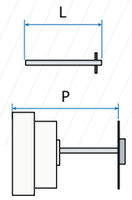
Accessories



Direct handle
CODE DCCLI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DCCLA11



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
227	166... 293

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
376	166... 442	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	166... 602	DS-EP15



Rear protective plate

3P	4P
DCCPP11	DCCPP12



Terminal shrouds

Inputs			Common output	
POS. I	POS. II	POS. I&II		
3P	3P	3P+N	3P	3P+N
DM2CU12	DM2CU11	DM2CU13	DCCCU11	DCCCU12



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

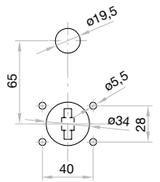


Safety key lock device
Simple *CODE* D5LCB11
Double *CODE* D5LCF11

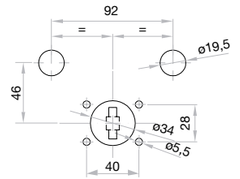
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

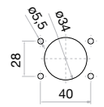


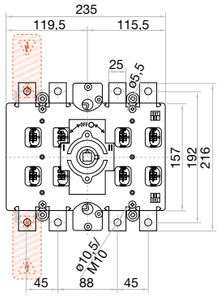
Double

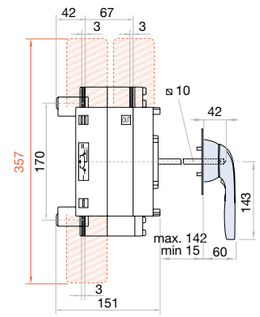


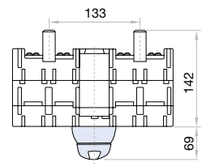
Dimensions (mm)

Door drilling for external handle

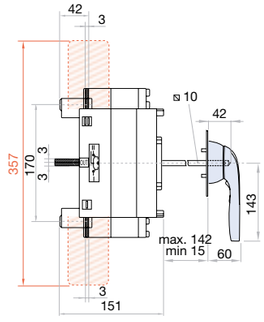


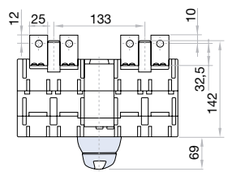




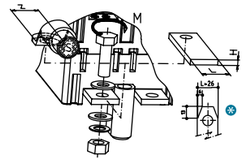


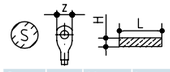
CCF





CCP



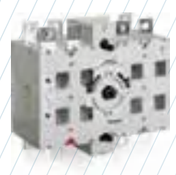


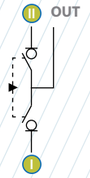
S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm		M Nxm
240	31	2x5	30	M10	24

series CCF|CCP

CCF | CCP
Changeover switch base mounting 3P - 3P+N

Size 2
A 500|630|800

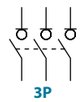


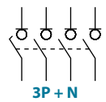






		CODE-500A	CODE-630A	CODE-800A
CCF	3P	CCF05003PS0	CCF06303PS0	CCF08003PS0
	3P + N	CCF05003NS0	CCF06303NS0	CCF08003NS0
CCP	3P	CCP05003PS0	CCP06303PS0	CCP08003PS0
	3P + N	CCP05003NS0	CCP06303NS0	CCP08003NS0


3P

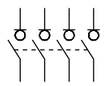

3P + N

Technical information

According to IEC / EN 60947-3

					500	630	800
Rated thermal current	Ith	in ambient at 40° C		A	500	630	800
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	500	630	800
		400V	AC22A	A	500	630	800*(5)
		500V	AC21A	A	500	630	800
		500V	AC22A	A	500	630	800*(5)
		690V	AC21A	A	500	630	800
		690V	AC22A	A	400	500	630*(5)
		800V	AC20A	A	500	630	800
		1000V	AC20A	A	500	630	800
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	200	250	315
		3x500V	AC23A	kW	156	197	250
		3x690V	AC23A	kW	173	216	272

					500	630	800
Rated capacitor power	400V, sen φ = 0,65			kVAr	208	262	333
Rated breaking capacity	400V	AC22A		A	1500	1890	2400
Rated making capacity	400V	AC22A		A	1500	1890	2400
Short - circuit behaviour							
Short - circuit making capacity *(3)		Icm	kA (peak)		20	20	20
Short - time withstand current (1 sec.)		Icw	kA rms		13	13	13
Minimun number of mechanical operations *(4)			Cycles		10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles		1000	1000	100*(5)
Maximum weight (3/4 poles)			CCF	Kg	11,5/12,6	11,5/12,6	11,9/13,2
			CCP	Kg	12,8/14,3	12,8/14,3	13/14,6


4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

series CCF|CCP

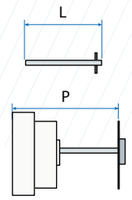
Accessories



Direct handle
CODE DCCLI21



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DCCLA21



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
195	195... 272

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	195... 422	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	195... 612	DS-EP24



Rear protective plate

3P	4P
DCCPP21	DCCPP22



Terminal shrouds

Inputs			Common output	
POS. I 3P	POS. II 3P	POS. I&II 3P+N	3P	3P+N
DM2CU22	DM2CU21	DM2CU23	DCCCU21	DCCCU22



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

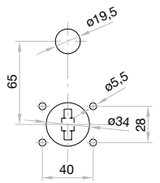


Safety key lock device
Simple CODE D5LCB21
Double CODE D5LCF21

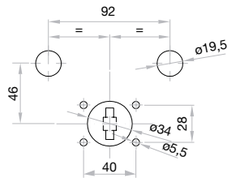
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

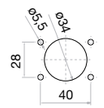


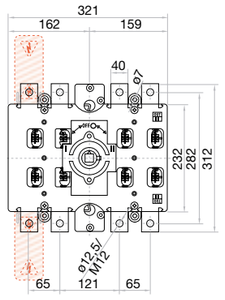
Double

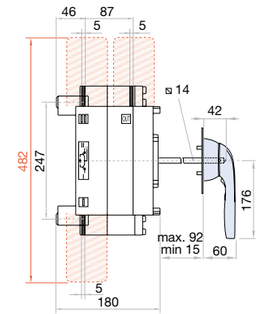


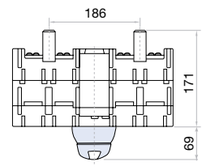
Dimensions (mm)

Door drilling for external handle

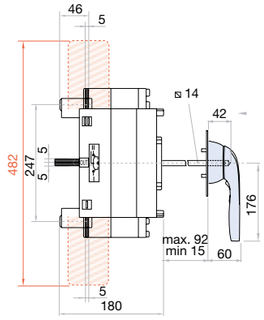


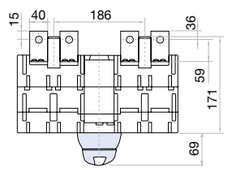




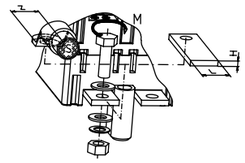


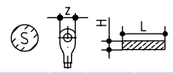
CCF





CCP





S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm		M Nxm
2x240	45	2x6	45	M12	45

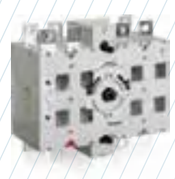
MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

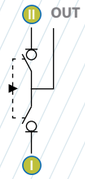
series CCF|CCP

CCF | CCP
Changeover switch base mounting 3P - 3P+N

Size 3

A 1000|1250





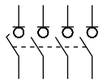




		CODE - 1000A	CODE - 1200A
CCF	3P	CCF10003PS0	CCF12503PS0
	3P + N	CCF10003NS0	CCF12503NS0
CCP	3P	CCP10003PS0	CCP12503PS0
	3P + N	CCP10003NS0	CCP12503NS0



3P



3P + N

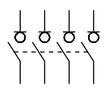
Technical information

CE IEC IECEE consult EAC IEL

According to IEC / EN 60947-3

					1000	1250
Rated thermal current	Ith	in ambient at 40° C		A	1000	1250
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC Rated operational current *(1)	Ie	400V	AC21A	A	1000	1250
(Rated operational frequency 50 / 60 Hz)		400V	AC22A	A	1000	1250*(5)
		500V	AC21A	A	1000	1250
		500V	AC22A	A	1000	1250*(5)
		690V	AC21A	A	1000	1250
		690V	AC22A	A	800	1000*(5)
		800V	AC20A	A	1000	1250
		1000V	AC20A	A	1000	1250
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	501	626
		3x500V	AC23A	kW	501	626
		3x690V	AC23A	kW	544	691

				1000	1250
Rated capacitor power	400V, sen φ = 0,65		kVAr	416	520
Rated breaking capacity	400V	AC22A	A	3000	3750
Rated making capacity	400V	AC22A	A	3000	3750
Short - circuit behaviour					
Short - circuit making capacity *(3)		Icm	kA (peak)	32	32
Short - time withstand current (1 sec.)		Icw	kA rms	25	25
Minimun number of mechanical operations *(4)			Cycles	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	500	100*(5)
Maximum weight (3/4 poles)		CCF	Kg	22,5 / 25	24,3 / 27,3
		CCP	Kg	25 / 28,3	26 / 29,7



4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series CCF|CCP

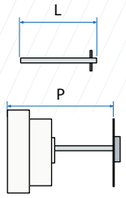
Accessories



Direct handle
CODE DCCLI31



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DCCLA31



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
186	223... 298

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	223... 457	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	223... 645	DS-EP24



Rear protective plate

3P	4P
DCCPP31	DCCPP32



Terminal shrouds

Inputs			Common output	
POS. I	POS. II	POS. I&II		
3P	3P	3P+N	3P	3P+N
DM2CU32	DM2CU31	DM2CU33	DCCCU31	DCCCU32



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

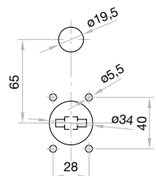


Safety key lock device
Simple *CODE* D5LCB31
Double *CODE* D5LCF31

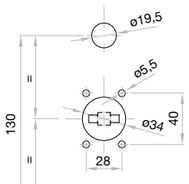
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

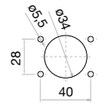


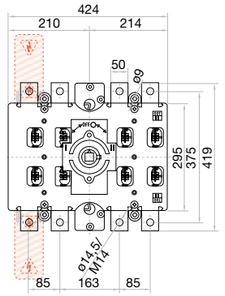
Double

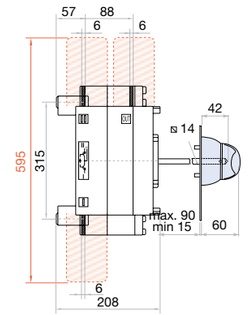


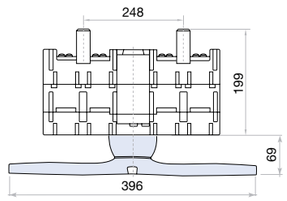
Dimensions (mm)

Door drilling for external handle

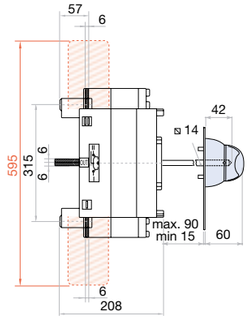


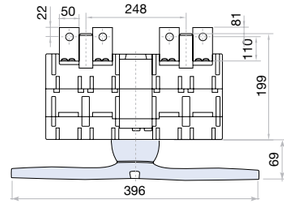




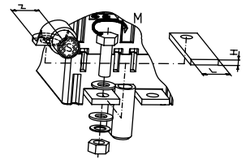


CCF





CCP





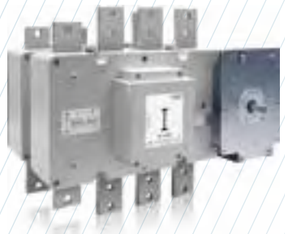
H max (Cu)	L max (Cu)		M
mm	mm		Nxm
2x10	60	M14	55

series S5F

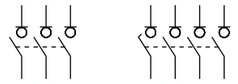
S5000F
Changeover switch base mounting 3P - 3P+N

Size 4

A 1600|1800|2000



	CODE - 1600A	CODE - 1800A	CODE - 2000A
3P	S5F16003PS0	S5F18003PS0	S5F20003PD0
3P + N	S5F16003NS0	S5F18003NS0	S5F20003ND0



Technical information

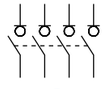
CE IEC IECEE EAC IEL

consult

According to IEC / EN 60947-3

					1600	1800	2000
Rated thermal current	Ith	in ambient at 40° C		A	1600	1800	2000
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	1600	1800	2000
		400V	AC22A	A	1600	1800	2000
		500V	AC21A	A	1600	1800	2000
		500V	AC22A	A	1250	1600	1800
		690V	AC21A	A	1600	1800	1800
		690V	AC22A	A	1000	1250	1600
		800V	AC20A	A	1600	1800	2000
		1000V	AC20A	A	1600	1800	2000
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	554,2	692,8	692,8
		3x500V	AC23A	kW	623,5	692,8	692,8
		3x690V	AC23A	kW	602,3	764,8	764,8

				1600	1800	2000
Rated capacitor power	400V, sen φ = 0,65		kVAr	450,03	562,9	562,9
Rated breaking capacity	400V	AC22A	A	4800	5400	6000
Rated making capacity	400V	AC22A	A	4800	5400	6000
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	75	75	75
Short - time withstand current (1 sec.)	Icw		kA rms	50	50	50
Minimun number of mechanical operations *(4)			Cycles	3000	3000	3000
Minimum number of electrical operations	400V	AC22A	Cycles	500	500	500
Maximum weight (3/4 poles)			Kg	42,9/47,3	42,9/47,3	42,9/47,3



4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

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series S5F

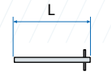
Accessories



Direct handle
CODE D5LLI32



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE D5LLA31



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	418... 573

Shaft extensions
Consult



Terminal shrouds
CODE DS-CU41
(1 kit for input or output only front side)



Bridging links
CODE D5LPC42 (4 units)



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



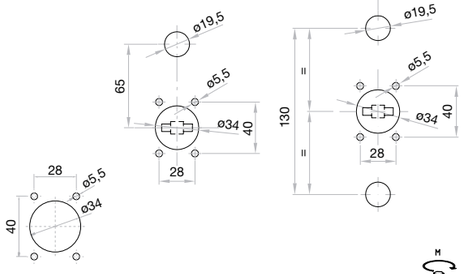
Safety key lock device
Simple *CODE* D5LCB41
Double *CODE* D5LCF41

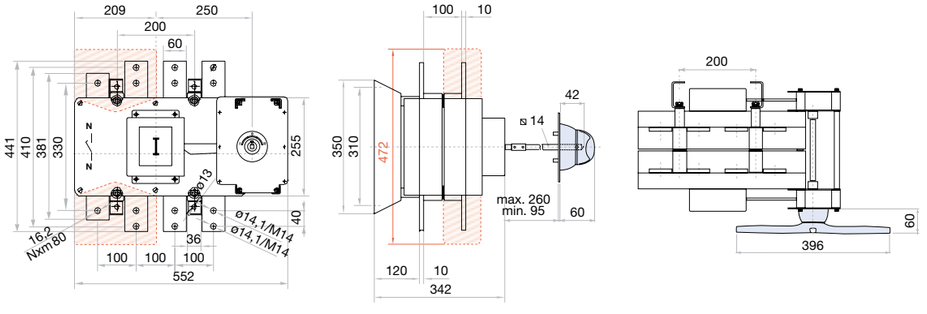
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

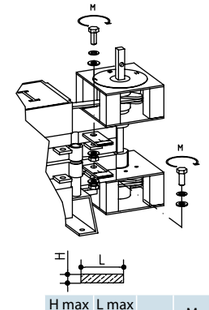
Door drilling for handle and keylock device
Simple Double

Dimensions (mm)

Door drilling for external handle







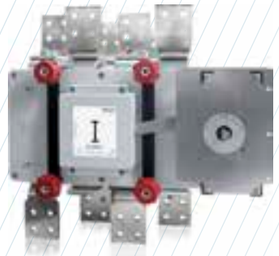
	H max (Cu) mm	L max (Cu) mm		M Nxm
1600 A 1800 A 2000 A	2x7	80	M14	55

series S5F

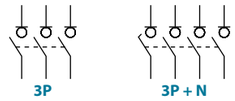
S5000F
Changeover switch base mounting 3P - 3P+N

Size 5

A 2000|2500|3150



	CODE - 2000A	CODE - 2500A	CODE - 3150A
3P	S5F20003PP0	S5F25003PP0	S5F31503PP0
3P + N	S5F20003NP0	S5F25003NP0	S5F31503NP0

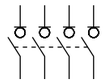


Technical information

According to IEC / EN 60947-3

					2000	2500	3150
Rated thermal current	Ith	in ambient at 40° C		A	2000	2500	3150
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	2000	2500	3150
		400V	AC22A	A	2000	2500	2500*(5)
		500V	AC21A	A	2000	2500	3150
		500V	AC22A	A	2000*(5)	2000*(5)	2200*(5)
		690V	AC21A	A	2000	2500	2500
		690V	AC22A	A	2000*(5)	2000*(5)	2000*(5)
		800V	AC20A	A	2000	2500	3150
		1000V	AC20A	A	2000	2500	3150
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	886,8	997,6	1108,5
		3x500V	AC23A	kW	866	1108,5	1108,5
		3x690V	AC23A	kW	956	956	956

				2000	2500	3150
Rated capacitor power	400V, sen φ = 0,65		kVAr	720,5	810,5	900,6
Rated breaking capacity	400V	AC22A	A	6000	7500	9450
Rated making capacity	400V	AC22A	A	6000	7500	9450
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	100	100	100
Short - time withstand current (1 sec.)	Icw		kA rms	50	50	50
Minimun number of mechanical operations *(4)			Cycles	2500	2500	2500
Minimum number of electrical operations	400V	AC22A	Cycles	500	500	500
Maximum weight (3/4 poles)			Kg		Consult	



Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

series S5F

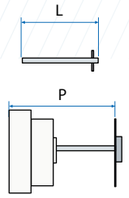
Accessories



Direct handle
(Slide bar)
CODE DS-EI61



External handle included shaft *(e1)
(Slide bar)
CODE D5LEN51



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
333	788... 938

Shaft extensions
Consult



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

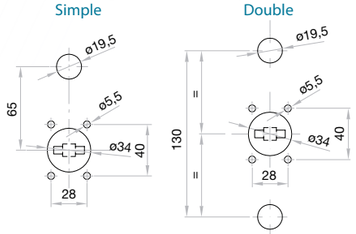
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Safety key lock device
Simple *CODE* D5LCB41
Double *CODE* D5LCF41

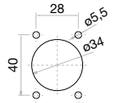
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

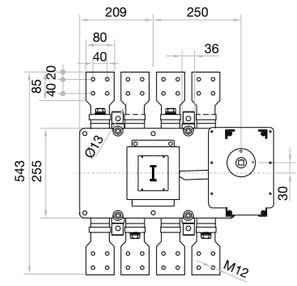
Door drilling for handle and keylock device

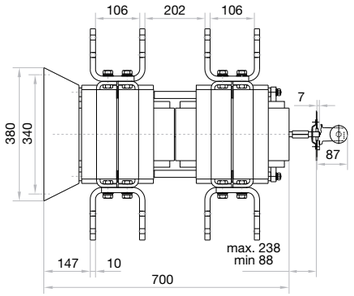


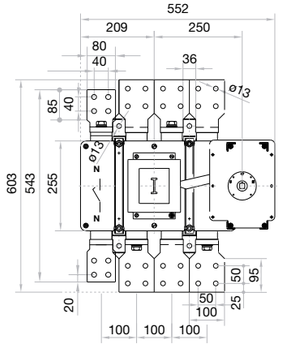
Dimensions (mm)

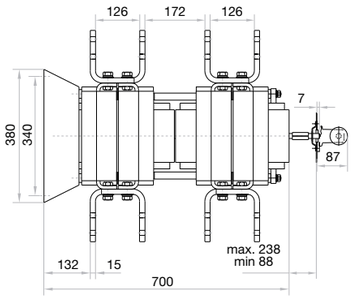
Door drilling for external handle



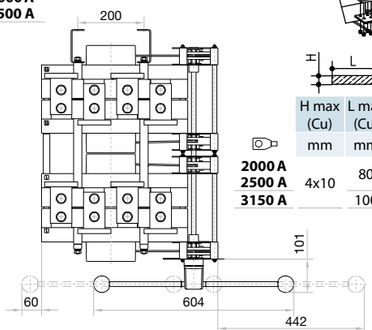




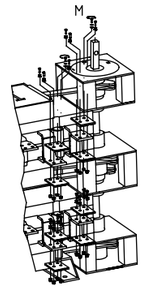




2000 A
2500 A



3150 A



	H max (Cu) mm	L max (Cu) mm	T	M Nxm
2000 A 2500 A	4x10	80 100	M12	45
3150 A				

series S5B

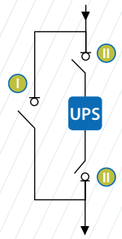
S5000B
By-pass changeover switch base mounting 3P - 3P+N

Size 0

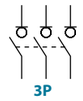
A 125|160|200

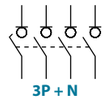






	CODE - 125A	CODE - 160A	CODE - 200A
3P	S5B01253PS0	S5B01603PS0	S5B02003PS0
3P + N	S5B01253NS0	S5B01603NS0	S5B02003NS0





Technical information

CE EAC

tests:

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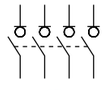
According to IEC / EN 60947-3

					125	160	200
Rated thermal current	Ith	in ambient at 40° C		A	125	160	200
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	4000	4000	4000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	125	160	200
		400V	AC22A	A	125	160	200
		500V	AC21A	A	125	160	200
		500V	AC22A	A	125	160	200
		690V	AC21A	A	125	160	180
		690V	AC22A	A	100	125	160
		800V	AC20A	A	125	160	200
		1000V	AC20A	A	125	160	200
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	69,2	88,6	88,6
		3x500V	AC23A	kW	69,2	88,6	88,6
		3x690V	AC23A	kW	76,4	76,4	76,4

				125	160	200
Rated capacitor power	400V, sen φ = 0,65		kVAr	56,2	72	90
Rated breaking capacity	400V	AC22A	A	375	480	600
Rated making capacity	400V	AC22A	A	375	480	600
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	13	13	13
Short - time withstand current (1 sec.)	Icw		kA rms	7	7	7
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	1000
Maximum weight (3/4 poles)			Kg	2,4/2,8	2,4/2,8	2,5/2,9



Overlapped contacs (S5S series), under request.



Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5B

Accessories

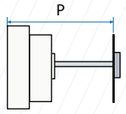


Direct handle
CODE D5LSI02



External handle included shaft *(e1)
IP65
CODE D5LLA01





Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
177	221... 346



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU01
(1 unit for input or output only front side)

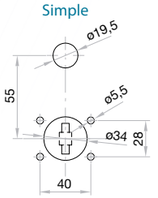


Safety key lock device
Simple *CODE* D5LCBB1
Double *CODE* D5LCFB1

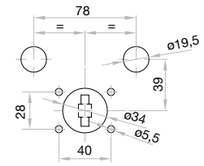
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

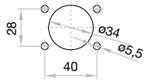


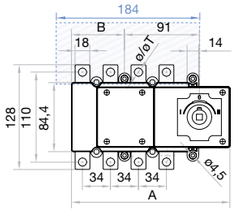
Double

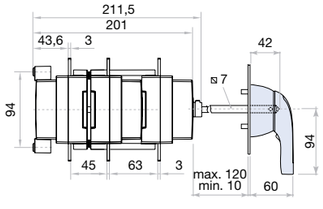


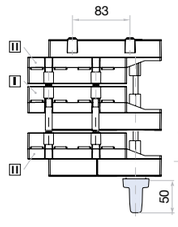
Dimensions (mm)

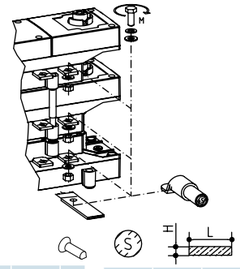
Door drilling for external handle



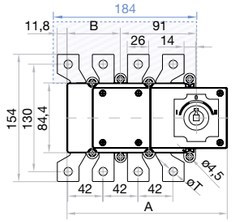


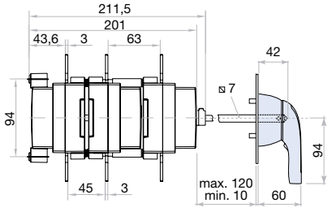


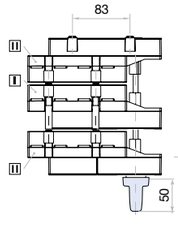


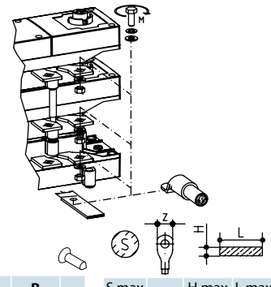


	A		B		ø	S max (Cu)	H max (Cu)	L max (Cu)		M
	3P	4P	3P	4P		mm²	mm	mm		Nxm
125 A 160 A	181	192	53	64	10	95	5	25	M8	13









	A		B		ø	S max (Cu)	Z max	H max (Cu)	L max (Cu)		M
	3P	4P	3P	4P		mm²		mm	mm		Nxm
200 A	181	192	53	64	10	120	30	5	30	M10	18

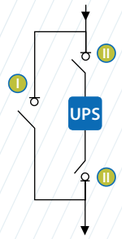
series S5B

S5000B
By-pass changeover switch base mounting 3P - 3P+N

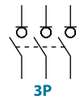
Size 1

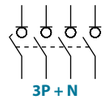
A 250|315|400





	CODE - 250A	CODE - 315A	CODE - 400A
3P	S5B02503PR0	S5B03153PR0	S5B04003PC0
3P + N	S5B02503NR0	S5B03153NR0	S5B04003NC0


3P


3P + N

Technical information

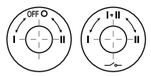
tests:

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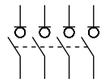
According to IEC / EN 60947-3

					250	315	400
Rated thermal current	Ith	in ambient at 40° C		A	250	315	400
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	5000	5000	5000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	250	315	400
		400V	AC22A	A	250	315	400
		500V	AC21A	A	250	315	400
		500V	AC22A	A	250	315	400
		690V	AC21A	A	200	250	250
		690V	AC22A	A	160	200	200
		800V	AC20A	A	250	315	400
		1000V	AC20A	A	250	315	400
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	138,5	174,5	221,7
		3x500V	AC23A	kW	138,5	173,2	218,2
		3x690V	AC23A	kW	152,9	152,9	152,9

				250	315	400
Rated capacitor power	400V, sen φ = 0,65		kVAr	112,5	141,8	180,1
Rated breaking capacity	400V	AC22A	A	750	945	1200
Rated making capacity	400V	AC22A	A	750	945	1200
Short - circuit behaviour						
Short - circuit making capacity *(3)		Icm	kA (peak)	20	20	20
Short - time withstand current (1 sec.)		Icw	kA rms	12	12	12
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	1000
Maximum weight (3/4 poles)			Kg	7,2/7,7	7,2/7,7	7,4/7,9



Overlapped contacs (S5S series), under request.


4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5B

Accessories



Direct handle
CODE D5LLI12



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE D5LLA11



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
227	382... 516



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU12
(1 unit for input or output only front side)



Terminal shrouds
CODE DS-CU11
(1 kit for input or output only front side)

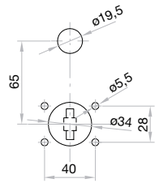


Safety key lock device
Simple *CODE* D5LCB11
Double *CODE* D5LCF11

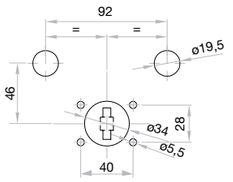
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

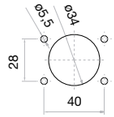


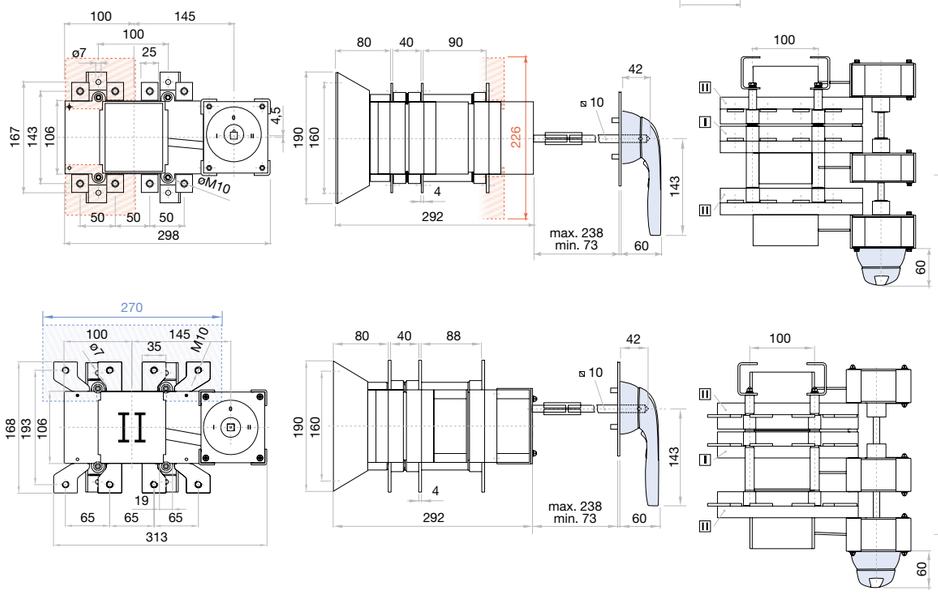
Double

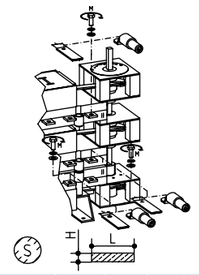


Dimensions (mm)

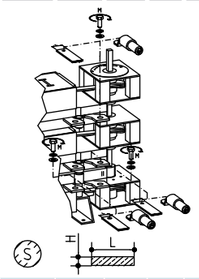
Door drilling for external handle







	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
250 A **315 A**	185	7	25	M10	18



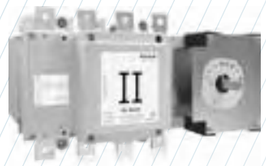
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
400 A	240	7	40	M10	24

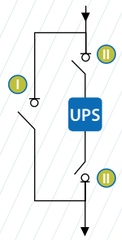
series S5B

S5000B
By-pass changeover switch base mounting 3P - 3P+N

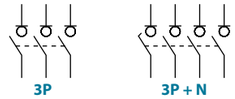
Size 2

A 500|630





	CODE - 500A	CODE - 630A
3P	S5B05003PR0	S5B06303PR0
3P + N	S5B05003NR0	S5B06303NR0



Technical information

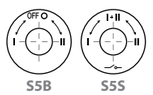
tests:

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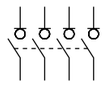
According to IEC / EN 60947-3

					500	630
Rated thermal current	Ith	in ambient at 40° C		A	500	630
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	500	630
		400V	AC22A	A	500	630
		500V	AC21A	A	500	630
		500V	AC22A	A	500	630
		690V	AC21A	A	500	630
		690V	AC22A	A	400	500
		800V	AC20A	A	500	630
		1000V	AC20A	A	500	630
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	277,1	349,1
		3x500V	AC23A	kW	277,1	346,4
		3x690V	AC23A	kW	239	301,1

				500	630
Rated capacitor power	400V, sen φ = 0,65		kVAr	225,1	283,7
Rated breaking capacity	400V	AC22A	A	1500	1890
Rated making capacity	400V	AC22A	A	1500	1890
Short - circuit behaviour					
Short - circuit making capacity *(3)		Icm	kA (peak)	26	26
Short - time withstand current (1 sec.)		Icw	kA rms	16	16
Minimun number of mechanical operations *(4)			Cycles	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000
Maximum weight (3/4 poles)			Kg	16,5/17,5	16,5/17,5



Overlapped contacs (S5S series), under request.



Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5B

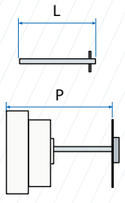
Accessories



Direct handle
CODE D5LLI22



External handle included shaft *(e1)
IP65|UL50E/NEMA 250 Types: 1, 3R, 4, 4X y 12
CODE D5LLA21



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	448... 613



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DS-CU21
(1 kit for input or output only front side)

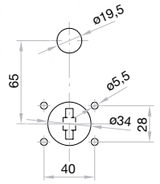


Safety key lock device
Simple *CODE* D5LCB21
Double *CODE* D5LCF21

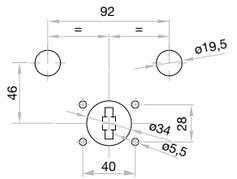
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

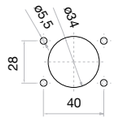


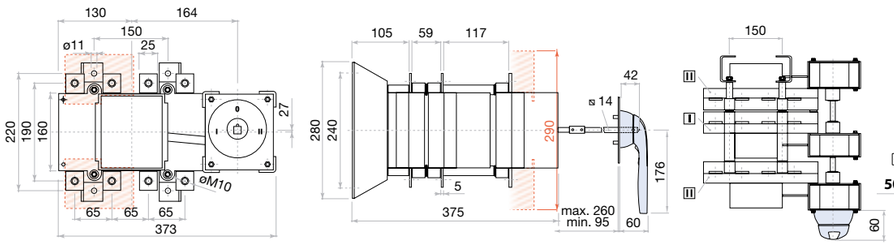
Double

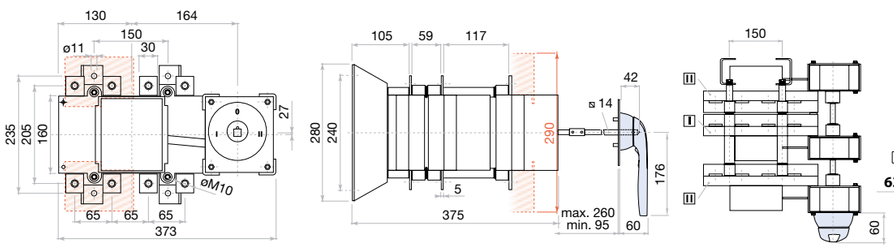


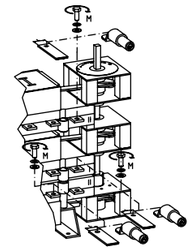
Dimensions (mm)

Door drilling for external handle







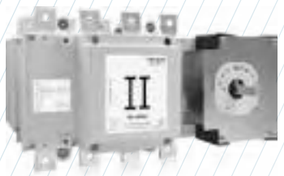


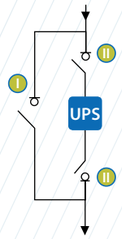
	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
500 A	2x185	6	40	M10	24
630 A	2x240	2x5	40	M10	24

series S5B

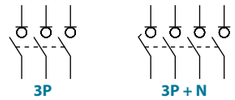
S5000B
By-pass changeover switch base mounting 3P - 3P+N

Size 3
A 800|1000





	CODE - 800A	CODE - 1000A
3P	S5B08003PR0	S5B10003PC0
3P + N	S5B08003NR0	S5B10003NC0

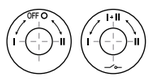


Technical information

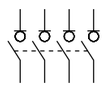
According to IEC / EN 60947-3

					800	1000
Rated thermal current	Ith	in ambient at 40° C		A	800	1000
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	800	1000
		400V	AC22A	A	800	1000
		500V	AC21A	A	800	1000
		500V	AC22A	A	800	1000
		690V	AC21A	A	800	1000
		690V	AC22A	A	630	800
		800V	AC20A	A	800	1000
		1000V	AC20A	A	800	1000
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	443,4	501
		3x500V	AC23A	kW	554,2	501
		3x690V	AC23A	kW	239	544

				800	1000
Rated capacitor power	400V, sen φ = 0,65		kVAr	360,2	450,3
Rated breaking capacity	400V	AC22A	A	2400	3000
Rated making capacity	400V	AC22A	A	2400	3000
Short - circuit behaviour					
Short - circuit making capacity *(3)	Icm		kA (peak)	60	60
Short - time withstand current (1 sec.)	Icw		kA rms	25	25
Minimun number of mechanical operations *(4)			Cycles	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	500	500
Maximum weight (3/4 poles)			Kg	26,5/28,6	26,5/28,6



Overlapped contacs (S5S series), under request.



Also available 4P changeover switches under request, consult reference

tests:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5B

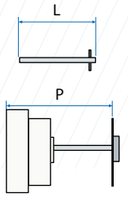
Accessories



Direct handle
CODE D5LLI32



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE D5LLA31



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	480... 645



Auxiliary contacts
1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DS-CU31
(1 kit for input or output only front side)

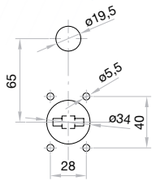


Safety key lock device
Simple *CODE* D5LCB31
Double *CODE* D5LCF31

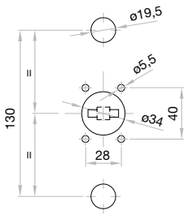
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

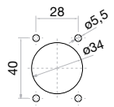


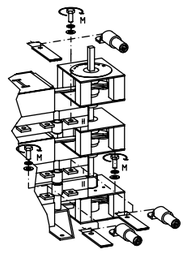
Double

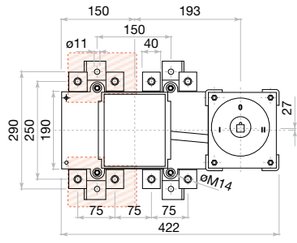


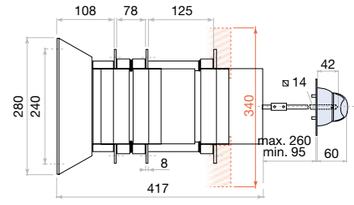
Dimensions (mm)

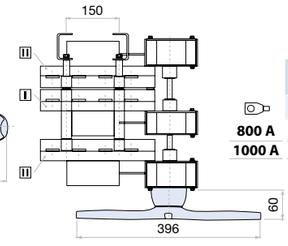
Door drilling for external handle











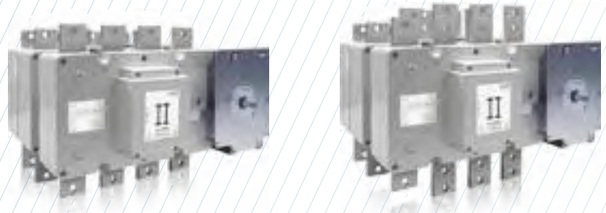


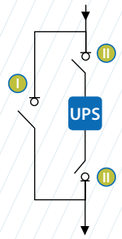
	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
800 A	2x240	2x10	50	M14	45
1000 A	2x300	2x10			

series S5B

S5000B
By-pass changeover switch base mounting 3P - 3P+N

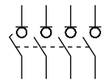
Size 4
A 1250|1600|1800|2000





	CODE - 1250A	CODE - 1600A	CODE - 1800A	CODE - 2000A
3P	S5B12503PS0	S5B16003PS0	S5B18003PS0	S5B20003PD0
3P + N	S5B12503NS0	S5B16003NS0	S5B18003NS0	S5B20003ND0


3P


3P + N

Technical information

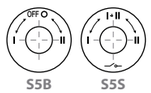
CE EAC

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC / EN 60947-3

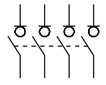
					1250	1600	1800	2000
Rated thermal current	Ith	in ambient at 40° C		A	1250	1600	1800	2000
Rated insulation voltage	Ui			V	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	12	12	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	1250	1600	1800	2000
		400V	AC22A	A	1250	1600	1800	2000
		500V	AC21A	A	1250	1600	1800	2000
		500V	AC22A	A	1000	1250	1600	1800
		690V	AC21A	A	1000	1600	1800	1800
		690V	AC22A	A	630	1000	1250	1600
		800V	AC20A	A	1250	1600	1800	2000
		1000V	AC20A	A	1250	1600	1800	2000
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	554,2	554,2	692,8	692,8
		3x500V	AC23A	kW	554,2	623,5	692,8	692,8
		3x690V	AC23A	kW	478	602,3	764,8	764,8

				1250	1600	1800	2000
Rated capacitor power	400V, sen φ = 0,65		kVAr	450,03	450,03	562,9	562,9
Rated breaking capacity	400V	AC22A	A	3750	4800	5400	6000
Rated making capacity	400V	AC22A	A	3750	4800	5400	6000
Short - circuit behaviour							
Short - circuit making capacity *(3)	Icm		kA (peak)	60	75	75	75
Short - time withstand current (1 sec.)	Icw		kA rms	25	50	50	50
Minimun number of mechanical operations *(4)			Cycles	3000	3000	3000	3000
Minimum number of electrical operations	400V	AC22A	Cycles	500	500	500	500
Maximum weight (3/4 poles)			Kg	65,2/72,1	65,2/72,1	65,2/72,1	65,2/72,1



S5B S5S

Overlapped contacs (S5S series), under request.


4P

Also available 4P changeover switches under request, consult reference

*(1) Other voltages and / or utilization categories; please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short - circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series S5B

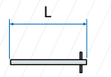
Accessories



Direct handle
CODE D5LLI32



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE D5LLA31



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	572... 645



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DS-CU41
(1 kit for input or output only front side)

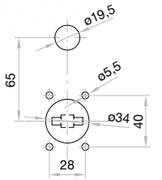


Safety key lock device
Simple CODE D5LCB41
Double CODE D5LCF41

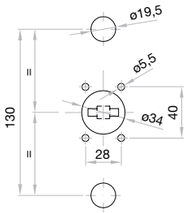
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

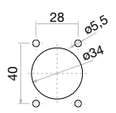


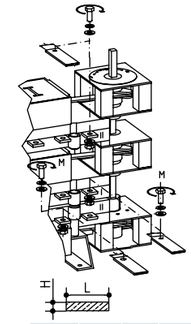
Double

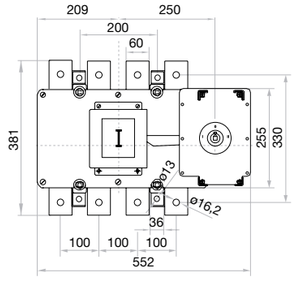


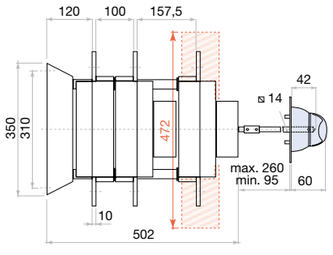
Dimensions (mm)

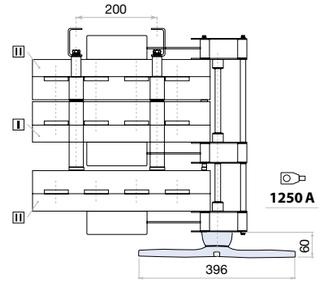
Door drilling for external handle



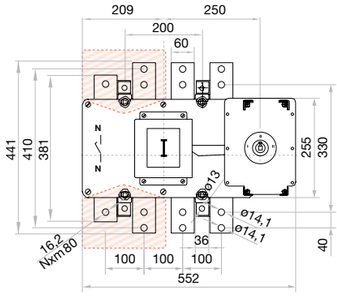


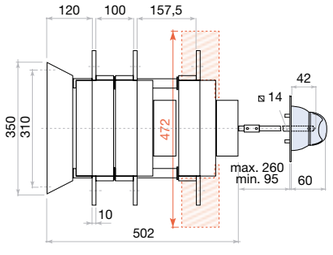


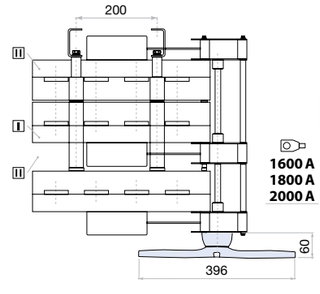




	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1250 A	2x7	80	M16	80







	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1600 A **1800 A** **2000 A**	2x7	80	M14	55

CTR2
Metal enclosed transfer switch IP65

3P - 3P+N

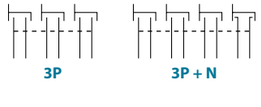
Size 00

A 63|80



	CODE - 63A	CODE - 80A
3P	CTR2LC00633PB	CTR2LC00803PB
3P + N	CTR2LC00633NB	CTR2LC00803NB

Bridging links included



3P 3P + N

Technical information

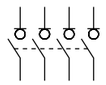
CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					63	80
Rated thermal current	Ith	in ambient at 40° C		A	63	80
Rated insulation voltage	Ui			V	800	800
Rated dielectric strength	50 Hz., 1 min.			V	3500	3500
Rated impulse withstand voltage	Uimp			kV	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	63	80
		400V	AC22A	A	63	80
		500V	AC21A	A	63	80
		500V	AC22A	A	63	63
		690V	AC21A	A	63	63
		690V	AC22A	A	50	50
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	34,9	34,9
		3x500V	AC23A	kW	34,6	34,6
		3x690V	AC23A	kW	30,5	30,5

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

				63	80
Rated capacitor power	400V, sen φ = 0,65		kVAr	28,3	28,3
Rated breaking capacity	400V	AC22A	A	189	240
Rated making capacity	400V	AC22A	A	189	240
Short - circuit behaviour					
Short - circuit making capacity *(3)		Icm	kA (peak)	5	5
Short - time withstand current (1 sec.)		Icw	kA rms	3	3
Minimun number of mechanical operations *(4)			Cycles	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1500	1500
Maximum weight (3/4 poles)			Kg	Consult	



4P

Also available 4P switches under request, consult reference

Accessories



» External handle included
IP65



» Bridging links included
CODE D5LPCB1



» Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

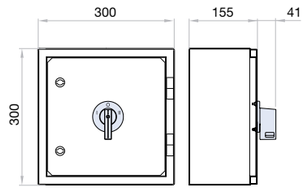
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

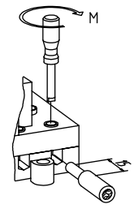


» Safety key lock device
Simple *CODE* D5LCBB1
Double *CODE* D5LCEB1

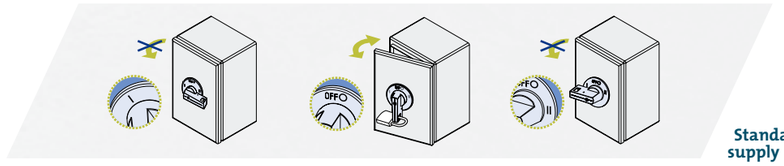
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Dimensions (mm)





S max (Cu)	M
mm²	Nxm
25	2



Standard supply

series CTR

CTR2 | CTRC
Metal enclosed transfer switch IP65

3P - 3P+N

Size 0

A 125|160|200



CTR2 manual

CTRC motorized

		CODE - 125A	CODE - 160A	CODE - 200A
CTR2	3P	CTR2FC01253PS	CTR2FC01603PS	CTR2FC02003PS
	3P + N	CTR2FC01253NS	CTR2FC01603NS	CTR2FC02003NS
CTRC	3P	CTRCFC01253PSAN	CTRCFC01603PSAN	CTRCFC02003PSAN
	3P + N	CTRCFC01253NSAN	CTRCFC01603NSAN	CTRCFC02003NSAN

Bridging links included

3P 3P + N

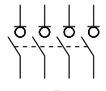
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					125	160	200
Rated thermal current	Ith	in ambient at 40° C		A	125	160	200
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	4000	4000	4000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	125	160	200
		400V	AC22A	A	125	160	200
		500V	AC21A	A	125	160	200
		500V	AC22A	A	125	160	200
		690V	AC21A	A	125	160	180
		690V	AC22A	A	100	125	160
		800V	AC20A	A	125	160	200
		1000V	AC20A	A	125	160	200
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	69,2	88,6	88,6
		3x500V	AC23A	kW	69,2	88,6	88,6
		3x690V	AC23A	kW	76,4	76,4	76,4

				125	160	200
Rated capacitor power	400V, sen φ = 0,65		kVAr	56,2	72	72
Rated breaking capacity	400V	AC22A	A	375	480	600
Rated making capacity	400V	AC22A	A	375	480	600
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	13	13	13
Short - time withstand current (1 sec.)	Icw		kA rms	7	7	7
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	1000
Maximum weight (3/4 poles)			Kg		Consult	



4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

series CTR

Accessories



External handle included
IP65



Auxiliary contacts
1NO+1NC CODE SSF DS-AU11
CODE D5LAU01
2NO+2NC CODE SSF DS-AU12
CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU01
(1 unit for input or output)
(CTR2)



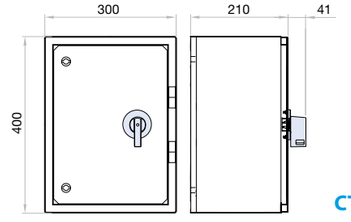
Bridging links included (4 pieces)
CODE D5LPC03



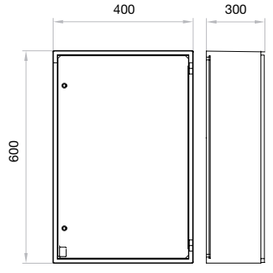
Safety key lock device
Simple CODE D5LCBB1
Double CODE D5LCEB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

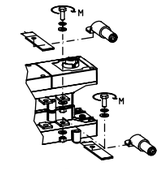
Dimensions (mm)



CTR2



CTRC



	ø	øT	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm	T	M Nxm
125 A 160 A	10	M8	95	5	25	M8	13
200 A	10	M10	120	5	30	M10	18



Standard supply CTR2

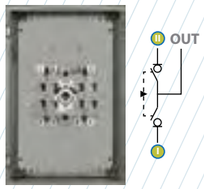
series CTR

CTR2 | CTRC
Metal enclosed transfer switch IP65

3P - 3P+N

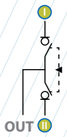
Size 1
A 200|250|315|400

CTR2
manual



CTRC
motorized

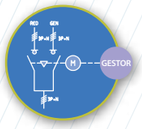


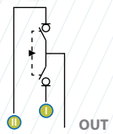


CTRC
motorized with interconnections



*(G1)

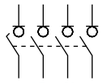




		CODE-200A	CODE-250A	CODE-315A	CODE-400A
CTR2	3P	-	CTR2CC02503PS	CTR2CC03153PS	CTR2CC04003PS
	3P + N	-	CTR2CC02503NS	CTR2CC03153NS	CTR2CC04003NS
CTRC	3P	CTRCCC02003PSAN	CTRCCC02503PSAN	CTRCCC03153PSAO	CTRCCC04003PSAO
	3P + N	CTRCCC02003NSAN	CTRCCC02503NSAN	CTRCCC03153NSAO	CTRCCC04003NSAO
with control module RGAM10 *(G1)	3P	-	CTRCCC02503PSAT	-	CTRCCC04003PSAU
	3P + N	-	CTRCCC02503NSBA	-	CTRCCC04003NSBB



3P



3P + N

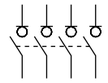
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					200	250	315	400
Rated thermal current	Ith	in ambient at 40º C		A	200	250	315	400
Rated insulation voltage	Ui			V	1000	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	6000	6000	6000	6000
Rated impulse withstand voltage	Uimp			kV	8	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	200	250	315	400
		400V	AC22A	A	200	250	315	400
		500V	AC21A	A	200	250	315	400
		500V	AC22A	A	200	250	315*(5)	400*(5)
		690V	AC21A	A	200	250	315	400
		690V	AC22A	A	160	200	250	315*(5)
		800V	AC20A	A	200	250	315	400
		1000V	AC20A	A	200	250	315	400
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	80	90	100	125
		3x500V	AC23A	kW	78	94	100	125
		3x690V	AC23A	kW	69	86	108	138

					200	250	315	400
Rated capacitor power	400V, sen φ = 0,65			kVAr	90	104	131	166
Rated breaking capacity	400V	AC22A		A	600	750	945	1200
Rated making capacity	400V	AC22A		A	600	750	945	1200
Short - circuit behaviour								
Short - circuit making capacity *(3)	Icm			kA (peak)	12	12	12	12
Short - time withstand current (1 sec.)	Icw			kA rms	8	8	8	8
Minimun number of mechanical operations *(4)				Cycles	10000	10000	10000	10000
Minimum number of electrical operations	400V	AC22A		Cycles	1000	1000	1000	1000
Maximum weight (3/4 poles)				Kg	Consult			



4P

Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

series CTR

Accessories



External handle included
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

Inputs			Common output	
POS. I 3P	*POS. II* 3P	*POS. I&II* 3P+N	3P	3P+N
DM2CU12	DM2CU11	DM2CU13	DCCCU11	DCCCU12



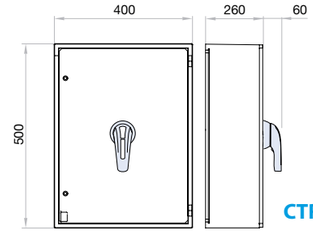
Safety key lock device
Simple *CODE* D5LCBB1
Double *CODE* D5LCEB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

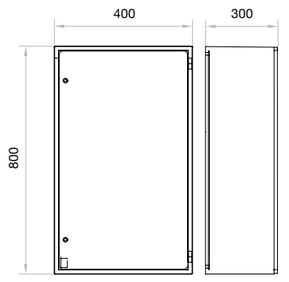


RGAM10 control module *(G1)
- 4 Digit alphanumeric LED display
- 16 LEDs for displaying the states & measurements
- Membrane keyboard with 6 keys
- 4 Digital Inputs & 5 programmable relay outputs

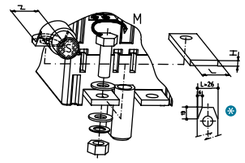
Dimensions (mm)



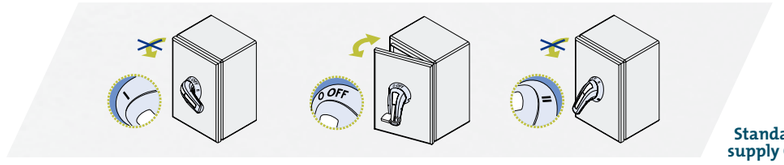
CTR2



CTRC



S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm		M Nxm
240	31	2x5	30	M10	24



Standard supply CTR2

series CTR

CTR2 | CTRC
Metal enclosed transfer switch IP65

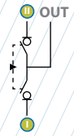
3P - 3P+N

Size 2

A 500|630|800

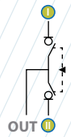
CTR2
manual





CTRC
motorized

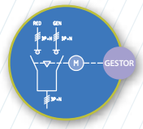


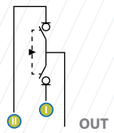


CTRC
motorized with interconnections



*(G1)

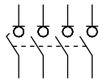




		CODE - 500A	CODE - 630A	CODE - 800A
CTR2	3P	CTR2CC05003PS	CTR2CC06303PS	CTR2CC08003PS
	3P + N	CTR2CC05003NS	CTR2CC06303NS	CTR2CC08003NS
CTRC	3P	CTRCCC05003PSAO	CTRCCC06303PSAO	CTRCCC08003PSAO
	3P + N	CTRCCC05003NSAO	CTRCCC06303NSAO	CTRCCC08003NSAO
with control module RGAM10 *(G1)	3P	-	CTRCCC06303PSAU	-
	3P + N	-	CTRCCC06303NSBB	-



3P



3P + N

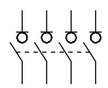
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					500	630	800
Rated thermal current	Ith	in ambient at 40º C		A	500	630	800
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	500	630	800
		400V	AC22A	A	500	630	800*(5)
		500V	AC21A	A	500	630	800
		500V	AC22A	A	500	630	800*(5)
		690V	AC21A	A	500	630	800
		690V	AC22A	A	400	500	630*(5)
		800V	AC20A	A	500	630	800
		1000V	AC20A	A	500	630	800
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	200	250	315
		3x500V	AC23A	kW	156	197	250
		3x690V	AC23A	kW	173	216	272

				500	630	800
Rated capacitor power	400V, sen φ = 0,65		kVAr	208	262	333
Rated breaking capacity	400V	AC22A	A	1500	1890	2400
Rated making capacity	400V	AC22A	A	1500	1890	2400
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm		kA (peak)	20	20	20
Short - time withstand current (1 sec.)	Icw		kA rms	13	13	13
Minimun number of mechanical operations *(4)			Cycles	10000	10000	10000
Minimum number of electrical operations	400V	AC22A	Cycles	1000	1000	100*(5)
Maximum weight (3/4 poles)			Kg		Consult	



4P

Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

series CTR

Accessories



External handle included

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts

1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

Inputs			Common output	
POS. I 3P	*POS. II* 3P	*POS. I&II* 3P+N	3P	3P+N
DM2CU22	DM2CU21	DM2CU23	DCCCU21	DCCCU22



Safety key lock device

Simple *CODE* D5LCB21
Double *CODE* D5LCF21

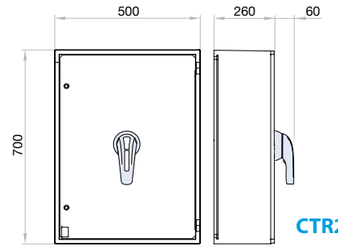
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



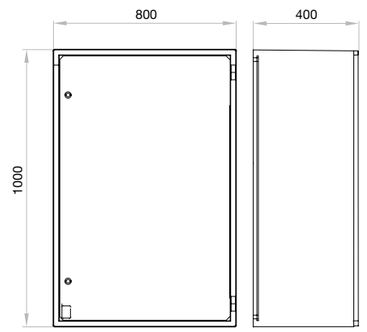
RGAM10 control module *(G1)

- 4 Digit alphanumeric LED display
- 16 LEDs for displaying the states & measurements
- Membrane keyboard with 6 keys
- 4 Digital Inputs & 5 programmable relay outputs

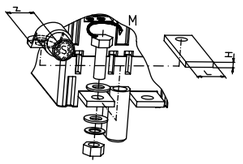
Dimensions (mm)

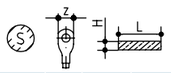


CTR2

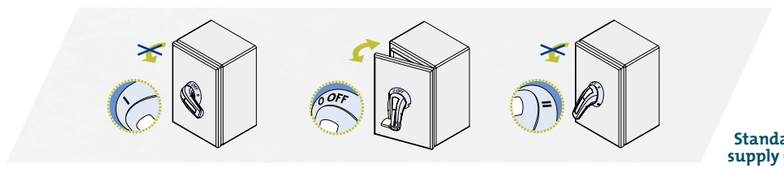


CTRC





S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm	T	M Nxm
2x240	45	2x6	45	M12	45



Standard supply CTR2

series CTR

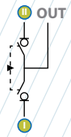
CTR2 | CTRC
Metal enclosed transfer switch IP65

Size 3
A 1000|1250

3P - 3P+N

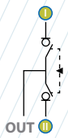
CTR2
manual





CTRC
motorized

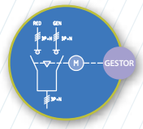


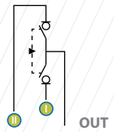


CTRC
motorized with interconnections



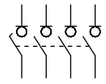
*(G1)





		CODE - 1000A	CODE - 1250A
CTR2	3P	CTR2CC10003PS	CTR2CC12503PS
	3P + N	CTR2CC10003NS	CTR2CC12503NS
CTRC	3P	CTRCCC10003PSAP	CTRCCC12503PSAP
	3P + N	CTRCCC10003NSAP	CTRCCC12503NSAP
with control module RGK60 *(G1)	3P	CTRCCC10003PSAV	CTRCCC12503PSAV
	3P + N	CTRCCC10003NSBC	CTRCCC12503NSBC


3P


3P + N

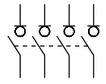
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					1000	1250
Rated thermal current	Ith	in ambient at 40° C		A	1000	1250
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	1000	1250
		400V	AC22A	A	1000	1250*(5)
		500V	AC21A	A	1000	1250
		500V	AC22A	A	1000	1250*(5)
		690V	AC21A	A	1000	1250
		690V	AC22A	A	800	1000*(5)
		800V	AC20A	A	1000	1250
		1000V	AC20A	A	1000	1250
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	501	626
		3x500V	AC23A	kW	501	626
		3x690V	AC23A	kW	544	691

				1000	1250
Rated capacitor power	400V, sen φ = 0,65		kVAr	416	520
Rated breaking capacity	400V	AC22A	A	3000	3750
Rated making capacity	400V	AC22A	A	3000	3750
Short - circuit behaviour					
Short - circuit making capacity *(3)		Icm	kA (peak)	32	32
Short - time withstand current (1 sec.)		Icw	kA rms	25	25
Minimun number of mechanical operations *(4)			Cycles	3000	3000
Minimum number of electrical operations	400V	AC22A	Cycles	500	100*(5)
Maximum weight (3/4 poles)			Kg	Consult	


4P

Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · KIT UM · SEE UM KIT

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

series CTR

Accessories



External handle included

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts

1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

Inputs			Common output	
POS. I	POS. II	POS. I&II		
3P	3P	3P+N	3P	3P+N
DM2CU32	DM2CU31	DM2CU33	DCCCU31	DCCCU32



Safety key lock device

Simple CODE D5LCB31
Double CODE D5LCF31

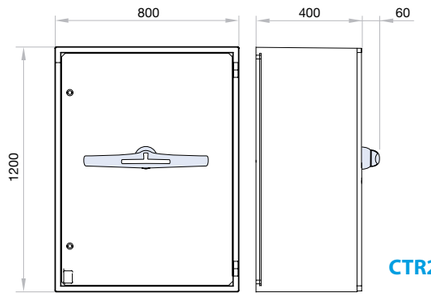
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



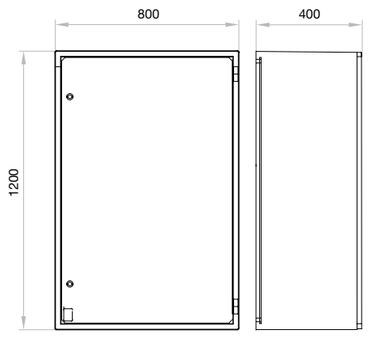
RGK60 control module *(G1)

› Graphical display LCD
› 12 Digital Inputs & 7 programmable relay outputs
› 2 Expansion slots

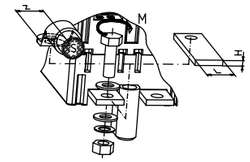
Dimensions (mm)



CTR2

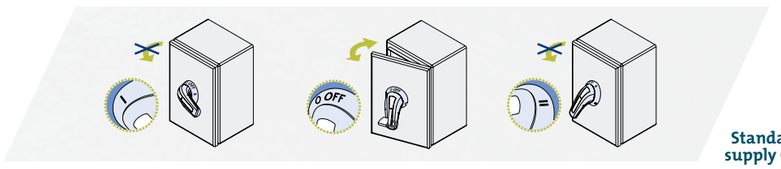


CTRC





H max (Cu) mm	L max (Cu) mm		M Nxm
2x10	60	M14	55



Standard supply CTR2

series CTR

CTR2 | CTRC
Metal enclosed transfer switch IP55- IP65

3P - 3P+N

Size 4

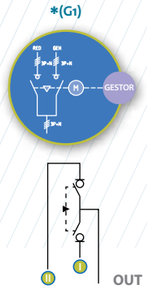
A 1600|1800

CTR2 (IP65)
manual

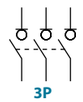


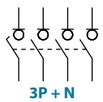
CTRC (IP55)
motorized with interconnections





		CODE - 1600A	CODE - 1800A
CTR2	3P	CTR2FC16003PS	CTR2FC18003PS
	3P + N	CTR2FC16003NS	CTR2FC18003NS
CTRC	3P	CTRCFC16003PSAP	CTRCFC18003PSAP
	3P + N	CTRCFC16003NSAP	CTRCFC18003NSAP
with control module RGK60 *(G1)	3P	CTRCFC16003PSAV	-
	3P + N	CTRCFC16003NSBC	-





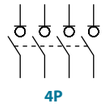
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					1600	1800
Rated thermal current	Ith	in ambient at 40º C		A	1600	1800
Rated insulation voltage	Ui			V	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000
Rated impulse withstand voltage	Uimp			kV	12	12
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	1600	1800
		400V	AC22A	A	1600	1800
		500V	AC21A	A	1600	1800
		500V	AC22A	A	1250	1600
		690V	AC21A	A	1600	1800
		690V	AC22A	A	1000	1250
		800V	AC20A	A	1600	1800
		1000V	AC20A	A	1600	1800
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	554,2	692,8
		3x500V	AC23A	kW	623,5	692,8
		3x690V	AC23A	kW	602,3	764,8

				1600	1800
Rated capacitor power	400V, sen φ = 0,65		kVAr	450,03	562,9
Rated breaking capacity	400V	AC22A	A	4800	5400
Rated making capacity	400V	AC22A	A	4800	5400
Short - circuit behaviour					
Short - circuit making capacity *(3)	Icm		kA (peak)	75	75
Short - time withstand current (1 sec.)	Icw		kA rms	50	50
Minimun number of mechanical operations *(4)			Cycles	3000	3000
Minimum number of electrical operations	400V	AC22A	Cycles	500	500
Maximum weight (3/4 poles)			Kg	Consult	



Also available 4P switches under request, consult reference

MOTORIZED KIT AVAILABLE · SEE UMKIT · KIT UM

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations

series CTR

Accessories



External handle included

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12



Auxiliary contacts

1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds

CODE DS-CU41
(1 kit for input or output only frontal side)



Bridging links

CODE D5LPC42 (4 units)



Safety key lock device

Simple *CODE* D5LCB41
Double *CODE* D5LCF41

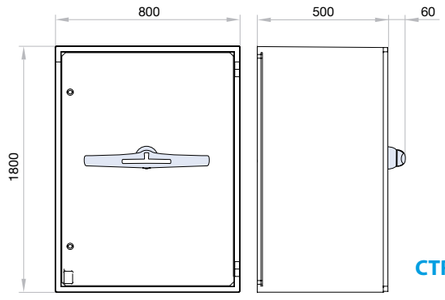
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



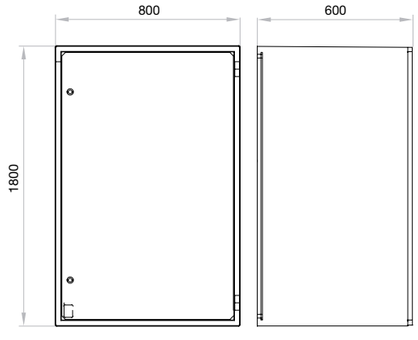
RGK60 control module *(G1)

- Graphical display LCD
- 12 Digital Inputs & 7 programmable relay outputs
- 2 Expansion slots

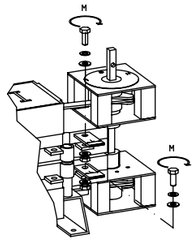
Dimensions (mm)



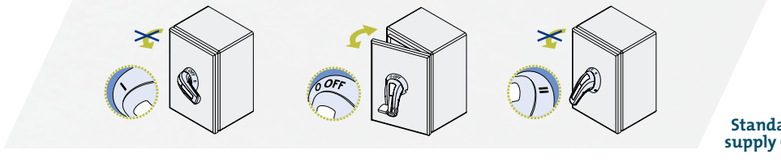
CTR2



CTRC



H max (Cu)	L max (Cu)	T	M
mm	mm		Nxm
2x7	80	M14	55



Standard supply CTR2

CTR2
Metal enclosed transfer switch IP65

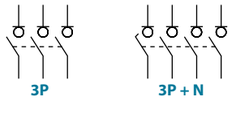
3P - 3P+N



Size 5

A 2000|2500|3150

	CODE - 2000A	CODE - 2500A	CODE - 3150A
3P	CTR2FC20003PP	CTR2FC25003PP	CTR2FC31503PP
3P + N	CTR2FC20003NP	CTR2FC25003NP	CTR2FC31503NP



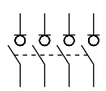
Technical information

CE

According to IEC / EN 60947-3
IEC / EN 61439-1

					2000	2500	3150
Rated thermal current	Ith	in ambient at 40° C		A	2000	2500	3150
Rated insulation voltage	Ui			V	1000	1000	1000
Rated dielectric strength	50 Hz., 1 min.			V	10000	10000	10000
Rated impulse withstand voltage	Uimp			kV	8	8	8
AC Rated operational current *(1) (Rated operational frequency 50 / 60 Hz)	Ie	400V	AC21A	A	2000	2500	3150
		400V	AC22A	A	2000	2500	2500*(5)
		500V	AC21A	A	2000	2500	3150
		500V	AC22A	A	2000*(5)	2000*(5)	2200*(5)
		690V	AC21A	A	2000	2500	2500
		690V	AC22A	A	2000*(5)	2000*(5)	2000*(5)
		800V	AC20A	A	2000	2500	3150
		1000V	AC20A	A	2000	2500	3150
AC Rated operational power *(2)	Pe	3x400V	AC23A	kW	886,8	997,6	1108,5
		3x500V	AC23A	kW	866	1108,5	1108,5
		3x690V	AC23A	kW	956	956	956

				2000	2500	3150
Rated capacitor power	400V, sen φ = 0,65	kVAr		720,5	810,5	900,6
Rated breaking capacity	400V	AC22A	A	6000	7500	9450
Rated making capacity	400V	AC22A	A	6000	7500	9450
Short - circuit behaviour						
Short - circuit making capacity *(3)	Icm	kA (peak)		100	100	100
Short - time withstand current (1 sec.)	Icw	kA rms		50	50	50
Minimun number of mechanical operations *(4)		Cycles		2500	2500	2500
Minimum number of electrical operations	400V	AC22A	Cycles	500	500	500
Maximum weight (3/4 poles)		Kg			Consult	



4P

Also available 4P switches under request, consult reference

*(1) Other voltages and / or utilization categories. Please consult
*(2) Indicative values, value cos φ=0,8
*(3) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.)
*(4) Please consult us for more operations
*(5) AC22B

Accessories



External handle included
(Slider bar)



Terminal shrouds
CODE DS-CU41
(1 kit for input or output only frontal side)



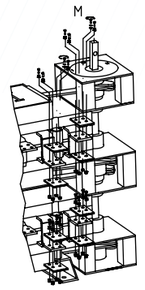
Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

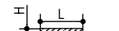
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Safety key lock device
Simple CODE D5LCB41
Double CODE D5LCF41

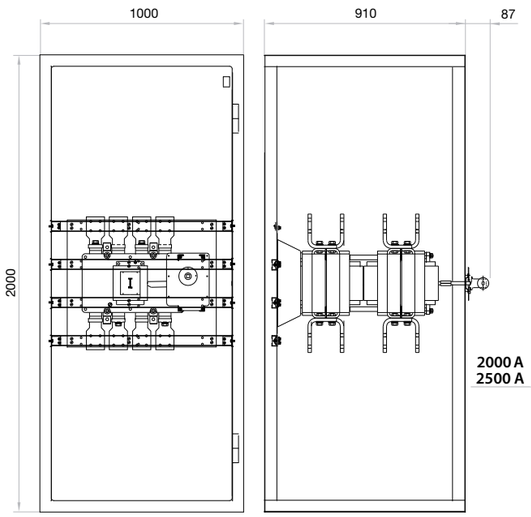
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

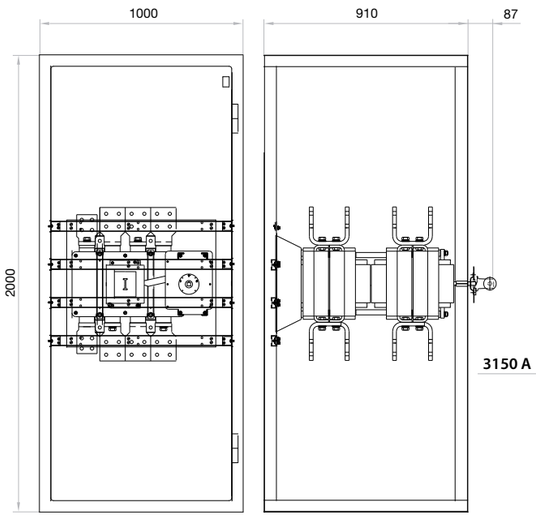


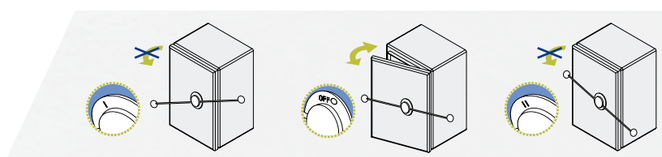


	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
2000 A 2500 A 3150 A	4x10	80 100	M12	45

Dimensions (mm)







Standard supply

series
UM

Kit motorized unit for switch or changeover switch

Motorized units to automate the drive system of the switch-disconnectors and changeover switches, with a high level of reliability, safety and ease of operation even in extreme situations.

According to:
EN55011 CISPR11
IEC 60947-1 & 3
IEC 61000, parts 3 & 4
RoHS

Testing and approvals:



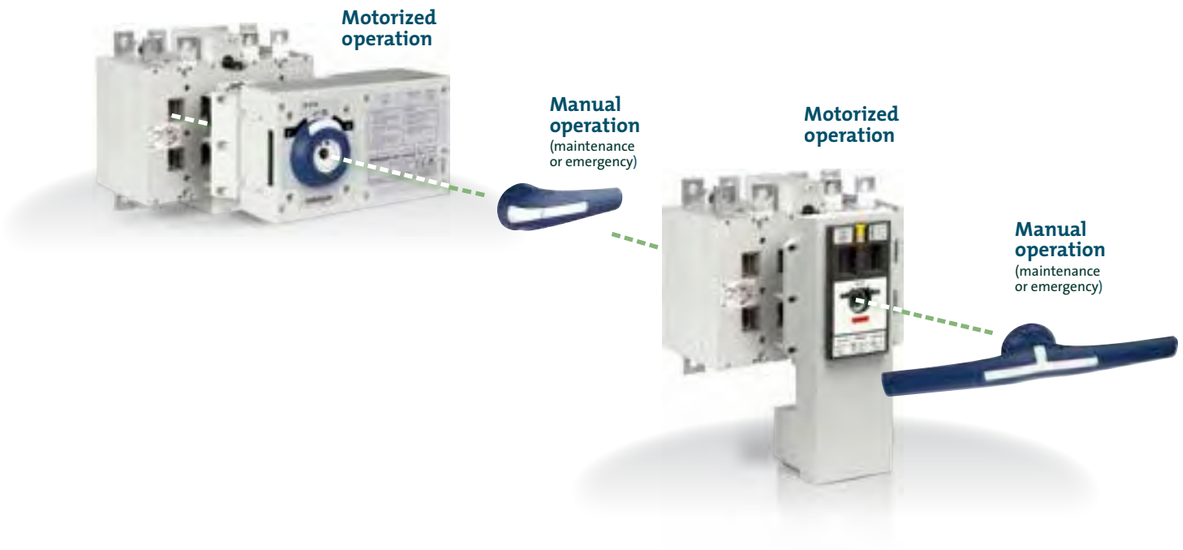
KIT UM

The motorized unit kits are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a body housing the motor, gears, electronics to command and control. They are equipped with a selector for automatic-manual-lock operating modes.

The kit concept simplifies both logistics and maintenance, for easy and simple assembly on the changeover switch or switch - disconnector as required.



- IEC60947-1 and 3. Low voltage devices. General part and switch - disconnectors.
- IEC61000-6, Parts 2 and 4. Electromagnetic compatibility in industrial environments, immunity and emission.
- According to European Standard 2014/35/UE for low voltage.
- According to European standard 2014/30/UE of EMC.

series
UM-S



1 2 3 4 5 6
U M S

Supply voltage
230Vac/dc.

For switch - disconnectors
S5 & S6 sizes 1 and 2.

series
UM-S



1 2 3 4 5 6
U M S

Supply voltage
120 - 230 - 277Vac/dc.

For switch - disconnectors
S5 sizes 3 up to 5.

series
UM-C



1 2 3 4 5 6
U M C

Supply voltage
230Vac/dc.

For changeover switches
S5F or CCF sizes 0 up to 2.

series
UM-C



1 2 3 4 5 6
U M C

Supply voltage
120 - 230 - 277Vac/dc.

For changeover switches
S5F & CCF sizes 2 up to 4.

series UM-S

UM-S
Motorized unit kit for switch S5000 & S6000





		120 Vac/dc	230 Vac/dc	277 Vac/dc
S5	Size 3 | UM T2	UM-S11120Z	UM-S11230Z	UM-S11277Z
	Size 3 | UM T2	UM-S21120Z	UM-S21230Z	UM-S21277Z
	Size 3 *(m1) | UM T3	UM-S32120Z	UM-S32230Z	UM-S32277Z
	Size 4 | UM T3	UM-S31120Z	UM-S31230Z	UM-S31277Z
	Size 5 | UM T3	UM-S32120Z	UM-S32230Z	UM-S32277Z

*(m1) For 2000A size 3.

		230 Vac/dc
S5 | S6	Size 1 | UM T0	UM-S1A230Z
	Size 2 | UM T0	UM-S2A230Z

Technical information

CE

According to IEC 60947-3

UM T0

Rated operational voltage		230Vac/dc
Operating voltage range (based in our own tests) (S5|S6 size 1)	ΔV	0,85*V to 1,15*V
Operating voltage range (based in our own tests) (S5|S6 size 2)	ΔV	0,9*V to 1,1*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable section of voltage supply	mm²	1,5 - 2,5
Cable section area Input Signals	mm²	0,5 - 1,5
Cable section area Auto-Lock mode Outputs	mm²	0,5 - 1,5
Inrush Current (Irms)	A	1,1
Use current	mA	45
Protective Fuse (Ref. F1AL250V | Littelfuse)	A	1
Operating angle		0-90° (0 - I)
Number of UM T0 operations (S5|S6 size 1)	Cycles	10000
Number of UM T0 operations (S5|S6 Size 2)	Cycles	5000
Operation rate (0-I-0) (S5|S6 size 1)	Cycles/hour	120
Operation rate (0-I-0) (S5|S6 size 2)	Cycles/hour	60
Operating temperature		- 25°C + 55°C
Transportation and storage temperature		- 40°C + 70°C
Weight	Kg	1,8

Pos.	Direction	Pos.	Operating time
0	➡	I	750 ms
I	➡	0	750 ms

UM T2-T3

Rated operational voltage		120Vac/dc	230Vac/dc	277Vac/dc
Frecuency	Hz		50/60	
Operating voltage range (based in our own tests)	ΔV		0,85*V to 1,15*V	
Operating voltage range according to IEC 60947-6	ΔV		0,95*V to 1,10*V	
Cable of voltage supply	mm²		1,5 - 2,5	
Cable section area Input & MODBUS Signals	mm²		0,5 - 1,5	
Cable section area Outputs	mm²		0,5 - 1,5	
Inrush Current	A		17	
Nominal Current during operation UM T2	A	4,75	2,5	2,1
Nominal Current during operation UM T3	A	7,5	3,9	3,3
Use current (Irms)	A		0,041	
Use current (Imax)	A		0,275	
Contacts operating time	ms	180	168	174
Number of UM T2 operations for S5 size 3 1000 - 1250A *(1) *(2)	Cycles		3000 / 10000	
Operation rate (0-I-0) for S5 size 3 1000 - 1250A *(1)	Cycles/hour		20 / 120	
Number of UM T3 operations for S5 size 3 2000A *(1) *(2)	Cycles		3000 / 6000	
Operation rate (0-I-0) for S5 size 3 2000A *(1)	Cycles/hour		20 / 40	
Number of UM T3 operations for S5 size 4 1000 - 2000A *(1) *(2)	Cycles		3000 / 6000	
Operation rate (0-I-0) for S5 size 4 1000 - 2000A *(1)	Cycles/hour		20 / 40	
Number of UM T3 operations for S5 size 5 2000 - 3150A *(1) *(2)	Cycles		3000 / 6000	
Operation rate (0-I-0) for S5 size 5 2000 - 3150A *(1)	Cycles/hour		20 / 40	
Operating temperature	T/Un RH90%		- 25°C + 55°C	
Transportation and storage temperature	RH90%		- 40°C + 70°C	
Weight T2/T3	Kg		3,96 / 4,4	

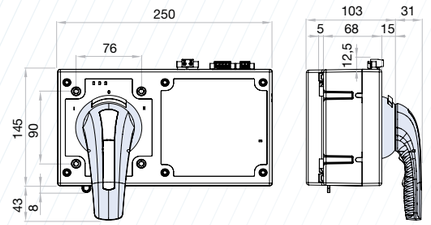
*(1) According to IEC 60947-3 / Based in our own tests
*(2) Please consult us for more operations

For inverted mounting there are references for MU with inverted frontal plates. Supply under request.

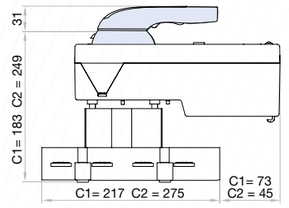
series UM-S

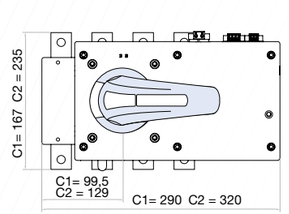
Dimensions (mm)

UM T0

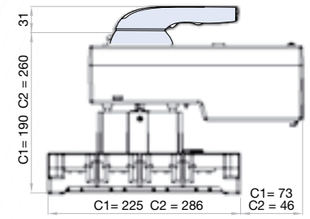


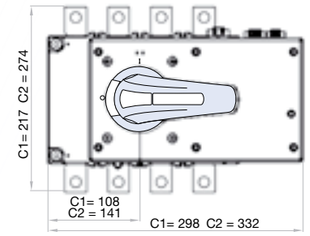
S5000 size 1&2 + UM T0



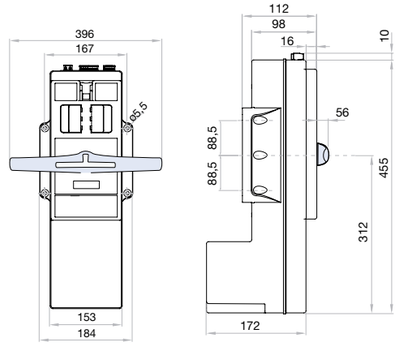


S6000 size 1&2 + UM T0

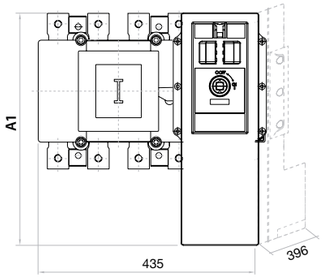




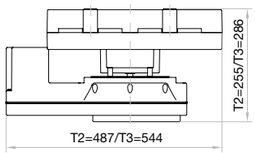
UM T2-T3

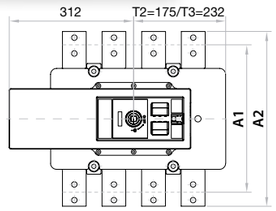


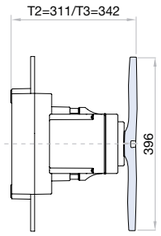
S5000 size 3 (2000 A) + UMT3



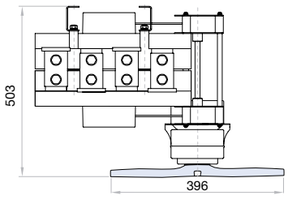
S5000 size 3 + UM T2 / S5000 size 4 + UM T3

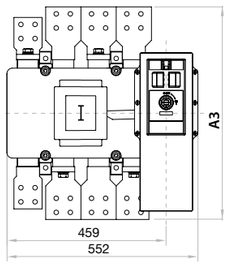


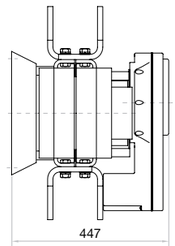




S5000 size 5 + UM T3







	A1
size 3-UM T2	290
size 3-UM T3	455 (2000A)
	A2
size 4-UM T3	381 (1000-1250A)
size 4-UM T3	441 (1600-2000A)
	A3
size 5-UM T3	543 (2000-2500A)
size 5-UM T3	603 (3150A)

series UM-C

UM-C
Motorized unit kit for changeover switch S5000F & CCF





			120 Vac/dc	230 Vac/dc	277 Vac/dc
CCF	Size 2	UM T2	UM-C21120Z	UM-C21230Z	UM-C21277Z
	Size 3	UM T3	UM-C31120Z	UM-C31230Z	UM-C31277Z
S5F	Size 4	UM T3	UM-C35120Z	UM-C35230Z	UM-C35277Z

230 Vac/dc

S5F	Size 0	UM T0	UM-C0A230Z
CCF	Size 1	UM T0	UM-C1A230Z
CCF	Size 2	UM T0	UM-C2A230Z

Technical information

CE

According to IEC 60947-3

UM T0

Rated operational voltage		230Vac/dc
Operating voltage range (based in our own tests) (size 1)	ΔV	0,85*V to 1,15*V
Operating voltage range (based in our own tests) (size 2)	ΔV	0,9*V to 1,1*V
Operating voltage range according to IEC 60947-6 (size 1)	ΔV	0,95*V to 1,10*V
Operating voltage range according to IEC 60947-6 (size 2)	ΔV	0,95*V to 1,1*V
Cable of voltage supply	mm²	1,5 - 2,5
Cable section area Input Signals	mm²	0,5 - 1,5
Cable section area Auto-Lock mode Outputs	mm²	0,5 - 1,5
Inrush Current (Irms)	A	1,1
Use current	mA	45
Protective Fuse (Ref. F1AL250V | Littelfuse)	A	1
Operating angle		- 70° / 0° / +70° (I - 0 - II)
Number of UM T0 operations (S5|S6 size 1)	Cycles	10000
Number of UM T0 operations (S5|S6 size 2)	Cycles	5000
Operation rate (0-I-II-0) (S5|S6 size 1)	Cycles/hour	120
Operation rate (0-I-II-0) (S5|S6 size 2)	Cycles/hour	60
Operating temperature		- 25°C + 55°C
Transportation and storage temperature		- 40°C + 70°C
Weight	Kg	1,8

Pos.	Direction	Pos.	Operating time
0	→	I	750 ms
I	→	0	750 ms
0	→	II	750 ms
II	→	0	750 ms
I	→	II	1,5 sec
II	→	I	1,5 sec

UM T2-T3

Rated operational voltage		120Vac/dc	230Vac/dc	277Vac/dc
Frecuency	Hz		50/60	
Operating voltage range (based in our own tests)	ΔV		0,85*V to 1,15*V	
Operating voltage range according to IEC 60947-6	ΔV		0,95*V to 1,10*V	
Cable of voltage supply	mm²		1,5 - 2,5	
Cable section area Input & MODBUS Signals	mm²		0,5 - 1,5	
Cable section area Outputs	mm²		0,5 - 1,5	
Inrush Current	A		17	
Nominal Current during operation UM T2	A	4,75	2,5	2,1
Nominal Current during operation UM T3	A	7,5	3,9	3,3
Use current (Irms)	A		0,041	
Use current (Imax)	A		0,275	
Operation time CCF size 2 - UM T2	ms	180	168	174
Operation time S5F size 4 | CCF C3 UM T3	ms	166	148	154
Number of UM T2 operations for CCF size 2 500 - 630A *(1) *(2)	Cycles		4000 / 10000	
Operation rate (0-I-II-0) for CCF size 2 500 - 630A *(1)	Cycles/hour		60 / 120	
Number of UM T2 operations for CCF size 2 800A *(1) *(2)	Cycles		2500 / 10000	
Operation rate (0-I-II-0) for CCF size 2 800A *(1)	Cycles/hour		20 / 120	
Number of UM T3 operations for S5F size 4| CCF size 3 *(1) *(2)	Cycles		2500 / 7000	
Operation rate (0-I-II-0) for S5F size 4 | CCF size 3 *(1)	Cycles/hour		20 / 60	
Operating temperature	T/Un RH90%		-25°C +55°C	
Transportation and storage temperature	RH90%		- 40°C + 70°C	
Weight T2/T3	Kg		3,96 / 4,4	

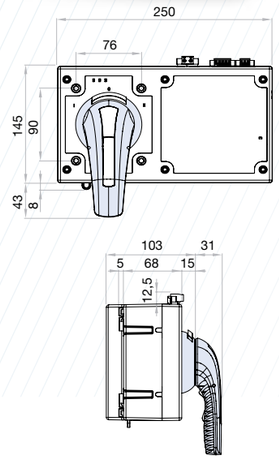
*(1) According to IEC 60947-3 / Based in our own tests
*(2) Please consult us for more operations

For inverted mounting there are references for MU with inverted frontal plates. Supply under request.

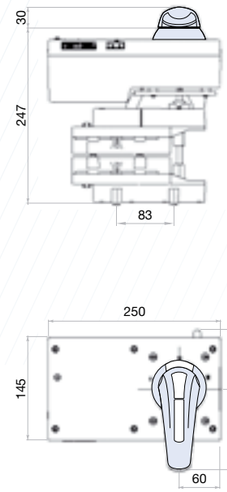
series UM-C

Dimensions (mm)

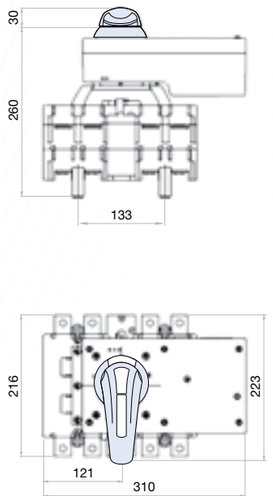
UM T0



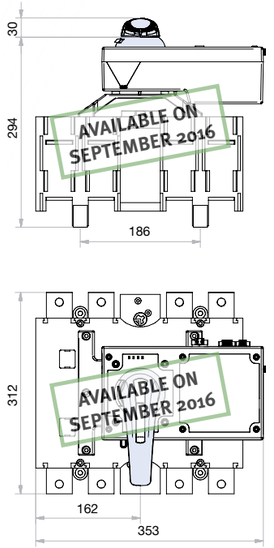
S5000F size 0 + UM T0



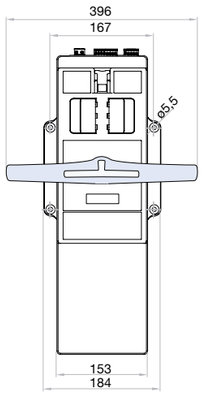
CCF size 1 + UM T0



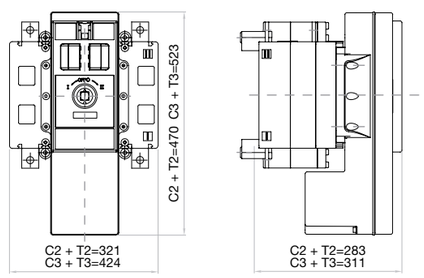
CCF size 2 + UM T0



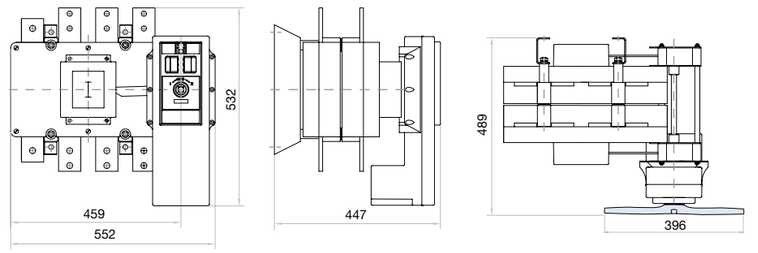
UM T2 - T3



CCF size 2&3 + UM T2 - T3



S5000F size 4 + UM T3



series ZFV | series S5 DC | S5M DC | series S6 DC

DC
Switch - disconnectors

DC switch – disconnectors with high operating load capacity and a high level disconnection insulation; high reliability and safety in abnormal situations, available in different construction models, with a wide range of currents in different DC voltages and a variety of accessories.

According to:
IEC/EN 60947-1 y 3
UL508i
UL98B
RoHS

Testing and approvals:



The DC switch – disconnectors in its different series, are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a sandwich-type body containing self-cleaning blade type contacts, with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life. The jump mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

The switch - disconnectors S6 DC do not require external bridging links; thus reducing installation time and simplifying subsequent maintenance operations.

Functional and ergonomic handle

- Good grip and excellent torque/ resistance
- Padlockable handle in **O OFF** position (up to three locks Ø 5-8 mm)
- Door interlock in **ON I** position
- When lock in **O OFF** position, door is interlocked
- Defeteable feature in **ON I** position (with the use of a tool for maintenance operations). Handle interlock is restored when closing
- Self-centering shaft for door handle

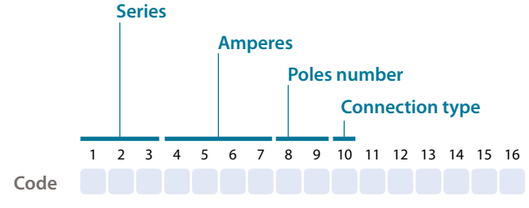


Relevant characteristics for photovoltaic installations

- Ui (V) Rated insulation voltage 1000 Vdc.
- Uoc (V) Open circuit voltage of the photovoltaic system.
- Uef (V) Photovoltaic installation functioning voltage on load.
- Ief (A) Installation working current under load.
- Isc (A) Short-circuit current of the photovoltaic installation.
- In certain places of Pv Systems, inductive component must be considered (cables, inverter, etc.).
- The sizing of the switch must be done considering open circuit voltage as maximum operation voltage.
- It is necessary to comply with:
  Ui ≥ Uoc
  We recommend to set Ui between 10 and 15% over Uoc.
  Ue ≥ Uef
  Ie ≥ Ief
  Ie ≥ Isc

Range coding:

The DC S5|S5M|S6|S6N series, are identified by a code that describes their most important characteristics as described below.



series ZFV



1 2 3 4 5 6
Z F V

Small design.
Base mounting by screws or DIN rail.
Non polarized.
Up to 1500Vdc.

series S5 DC



1 2 3 4 5 6
S 5 -

Wide range of currents.
Base mounting by screws.
Non polarized.
Up to 1000Vdc.

series S5M DC



1 2 3 4 5 6
S 5 M

Back to back arrangement.
Base mounting by screws.
Non polarized.
4P+4P 1000Vdc.
4P+4P 1500Vdc.

series ZFV



1 2 3 4 5 6
Z F V

ZFV plastic enclosed switch.
Non polarized.
Up to 1500Vdc.

series S6 DC



1 2 3 4 5 6
S 6 -

Wide range of currents.
Different configurations to choose.
Base mounting by screws.
Non polarized.
Up to 1000Vdc.

series S6N DC



1 2 3 4 5 6
S 6 N

Back to back arrangement.
Different configurations to choose.
Base mounting by screws.
Non polarized.
Up to 1500Vdc.

series ZFV

ZFV
Switch - disconnector for DC current 2P

Size 00-0

A 16|25|32|40|55

600 - 1000 - 1500 Vdc



	CODE 2P
16A	ZFV16SMAH1A4O
25A	ZFV25SMAH1A4O
32A	ZFV32SMAH1A4O
40A	ZFV40SMAH1A4O
55A	ZFV55SMAH1A4O

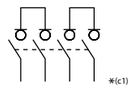


	CODE 2P
16A	ZFV16VZVH4A4O
25A	ZFV25VZVH4A4O
32A	ZFV32VZVH4A4O
40A	ZFV40VZVH4A4O
55A	ZFV55VZVH4A4O



IP66

	CODE 2P
16A	-
25A	-
32A	ZFV32PFLH4A4O
40A	-
55A	ZFV55PFH4A40



Technical information

According to IEC / EN 60947-3

UL508i

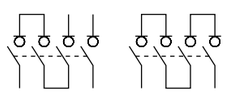
IEC / EN 60947-3

							ZFV16	ZFV25	ZFV32	ZFV40	ZFV55
Rated operational current	Ie DC21B	2 Poles in series	IEC	1000 Vdc	A		9	11	13	20	25
				1500 Vdc	A		3	4	5	6	8
	Ie DC21B	4 Poles in series	IEC	1000 Vdc	A		16	25	32	40	55
				1500 Vdc	A		16	20	23	30	40
Rated conditional short-circuit current					kAeff		5	5	5	10	10
Max. fuse size				gL (gG)	A		40	63	80	125	160
Maximum cable cross sections (included jumper)											
Solid or stranded					mm^2		4 - 16	4 - 16	4 - 16	2,5 - 25	2,5 - 25
Flexible					mm^2		4 - 10	4 - 10	4 - 10	4 - 16	4 - 16
Flexible (+ multicore cable end)					mm^2		4 - 10	4 - 10	4 - 10	2,5 - 16	2,5 - 16
Size of terminal screw							M4 Pz2	M4 Pz2	M4 Pz2	M5Pz2	M5Pz2
Tightening torque					Nm		1,7 - 1,8	1,7 - 1,8	1,7 - 1,8	2,5 - 2,8	2,5 - 2,8

UL508i LISTED E362647

						ZFV16	ZFV25	ZFV32	ZFV40	ZFV55
Ampere-Rating "General use"	2 Poles in series	UL	600 Vdc	A		16	20	25	40	55
			1000 Vdc	A		-	-	-	16	20
	4 Poles in series	UL	600 Vdc	A		16	25	32	40	55
			1000 Vdc	A		-	-	-	40	55
Fuse size (RK5) 5 kA / 600 V	Industrial Control Switch			A		40	60	80	-	-
Fuse size (RK5) 5 kA / 1000 V	Industrial Control Switch			A		-	-	-	90	125
Maximum cable cross sections (included jumper)										
Solid or stranded				AWG		12 - 10	12 - 10	12 - 10	16 - 10	16 - 10
Flexible				AWG		12 - 6	12 - 6	12 - 6	14 - 4	14 - 4
Flexible (+ multicore cable end)				AWG		12 - 6	12 - 6	12 - 6	- -	- -
Size of terminal screw						M4 Pz2	M4 Pz2	M4 Pz2	M5Pz2	M5Pz2
Tightening torque				Nm		1,7 - 1,8	1,7 - 1,8	1,7 - 1,8	2,5 - 2,8	2,5 - 2,8

*(c1) Other configurations are available under request



series ZFV

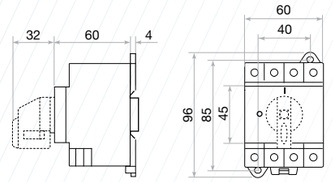
Accessories

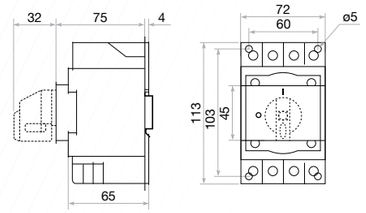


» **Insulated bridging links** included

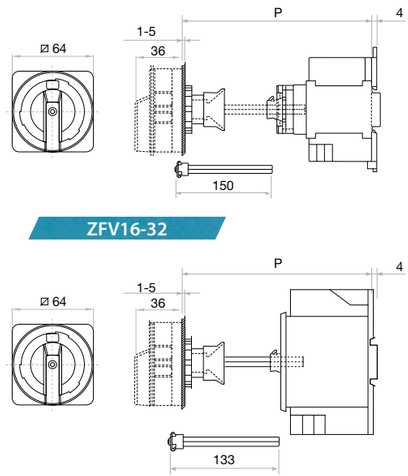
CODE ZFV-B1 16-32 A
ZFV-B2 40-55 A

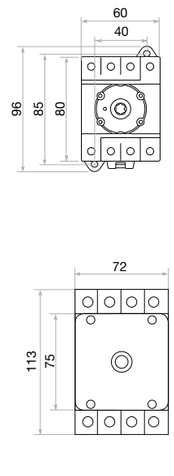
Dimensions (mm)





ZFV16-32

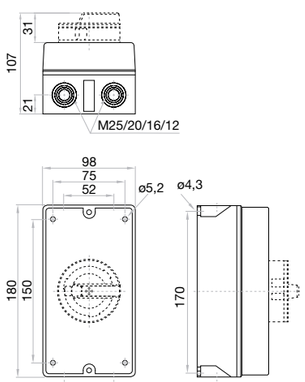


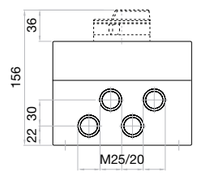


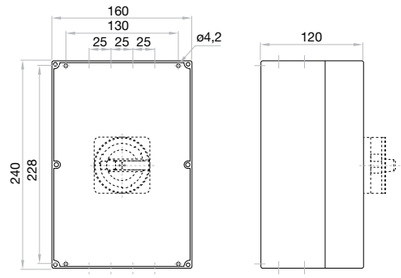
P
max = 194
min = 103

Other lengths (shafts) are available under request

ZFV40-55



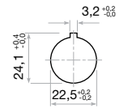




ZFV32

ZFV55

Door drilling for external handle



P
max = 150
min = 89

Other lengths (shafts) are available under request

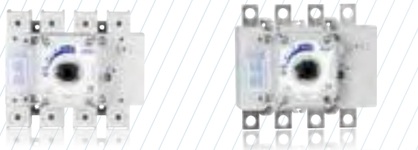
series S5 DC

S5000 DC
Switch - disconnector for DC current 4P

Size 0

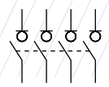
A 40

900 Vdc



CODE - 40A
S5-01604PB0

CODE - 40A
S5-01604PS0



4P

Technical information

CE EAC

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC/EN 60947-1
IEC/EN 60947-3

				40
Rated thermal current	Ith	40° C	A	40
in ambient at		50° C	A	40
		60° C	A	40
Rated insulation voltage DC20		Ui	V	1000
Rated dielectric strength		50 Hz., 1 min.	V	4000
Rated impulse withstand voltage		Uimp	kV	8
Rated operational current *(1) DC21B	Ie	Ue 900 Vdc	A	40

Short - circuit behaviour			
Short - circuit making capacity *(2)	Icm	kA (peak)	13
Maximum power dissipation		A^2s (x 10^3)	198
Minimun number of mechanical operations *(3)		Cycles	30000
Minimum number of electrical operations	DC21B 900V	Cycles	300
Maximum weight (without jumpers)		Kg	1

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

Connection diagram

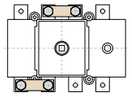
Connection diagram

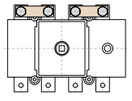
A

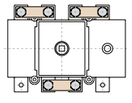

B


C

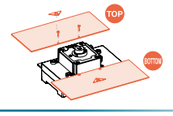

Bridging links

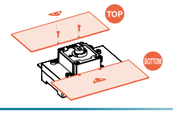


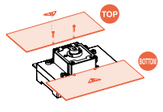




Terminal protection







series S5 DC

Accessories



Direct handle
CODE DS-SI01

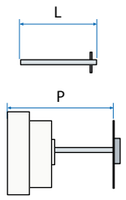


External handle included shaft *(e1)
IP65
CODE DS-SA01



External handle without shaft
IP65
CODE DS-SA03

Shafts



Standard shaft included *(e1)

L (mm)	P (mm)
177	87... 197,5

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
250	87... 278	DS-EP04

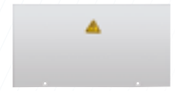
Type 2

L (mm)	P (mm)	CODE
387	87... 415	DS-EP05



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU01
(1 unit for input or output)



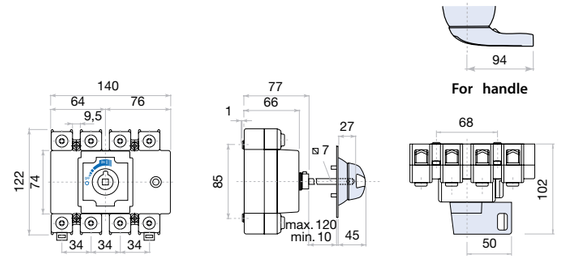
Bridging links (2 units)
A B CODE DS-PI05
CODE DS-PI01
C CONSULT

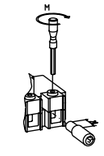


DIN rail mounting
CODE DS-DN01
(1 kit)

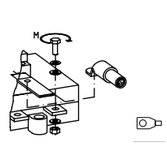
Dimensions (mm)

Door drilling for external handle





S max (Cu) mm²	M Nxm
95	4



S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm	T	M Nxm
95	5	25	M8	13

series S5 DC

S5000 DC
Switch - disconnector for DC current 4P

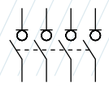
Size 1

A 100|160|250|400

1000 Vdc



CODE - 100A	CODE - 160A	CODE - 250A	CODE - 400A
S5-01254PR0	S5-02004PR0	S5-03154PR0	S5-04004PC0



4P

Technical information

According to IEC/EN 60947-1
IEC/EN 60947-3

consult consult consult

tests:

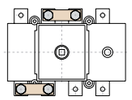
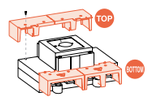
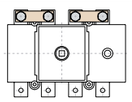
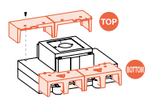
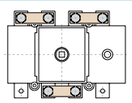
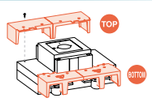
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

				100	160	250	400
Rated thermal current in ambient at	Ith	40º C	A	125	200	315	400
		50º C	A	125	200	315	400
		60º C	A	125	200	280	320
Rated insulation voltage DC20		Ui	V	1500	1500	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V	5000	5000	5000	5000
Rated impulse withstand voltage		Uimp	kV	8	8	8	8
Rated operational current *(1) DC21B	Ie	Ue 1000 Vdc	A	100	160	250	400

Short - circuit behaviour			100	160	250	400
Short - circuit making capacity *(2)	Icm	kA (peak)	20	20	20	20
Maximum power dissipation		A^2s (x 10^3)	1000	1000	1000	1000
Minimun number of mechanical operations *(3)		Cycles	20000	20000	20000	20000
Minimum number of electrical operations	DC21B 1000V	Cycles	200	200	200	200
Maximum weight (without jumpers)		Kg	1,9	1,9	1,9	1,9

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

Connection diagram

	Connection diagram	Bridging links	Terminal shrouds
A			
B			
C			

series S5 DC

Accessories



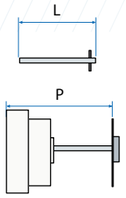
Direct handle
CODE DS-SI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA14



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
227	103... 256

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
375	103... 415	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	103... 576	DS-EP15



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

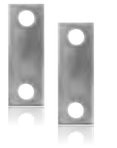


Terminal protection
CODE DS-CU12
(1 unit for input or output)



Terminal shrouds (2 units)

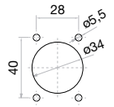
	A	B	C
TOP	DS-CU18	DS-CU10	DS-CU10
BOTTOM	DS-CU19	DS-CU11	DS-CU18



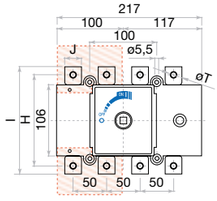
Bridging links (2 units)
A B CODE DS-PI11
CODE DS-PI14
C CONSULT

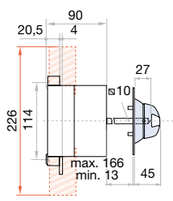
Dimensions (mm)

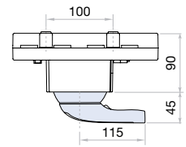
Door drilling for external handle

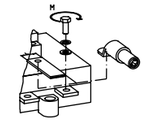


	H	I	J	øT
100 A 160 A	130	150	20	M8
250 A	143	167	25	M10

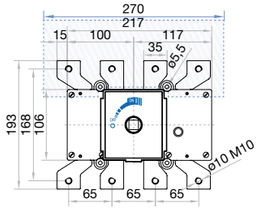


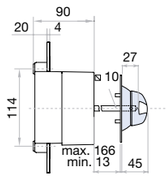


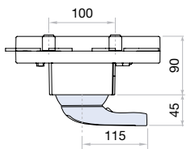


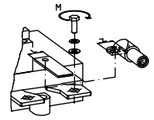


	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm	T	M Nxm
100 A	185	7	25	M8	13
160 A					13
250 A				M10	18









	S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm	T	M Nxm
400 A	240	44	7	40	M10	24

series S5 DC

S5000 DC
Switch - disconnector for DC current 4P - 2P

Size 2
A 500|630
1000 Vdc



CODE - 500A S5-06304PR0 | CODE - 630A S5-08004PC0



4P 2P

Technical information

CE IEC IECEE (consult) EAC UL (consult) CCC (consult)

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC/EN 60947-1
IEC/EN 60947-3

				500	630
Rated thermal current in ambient at	Ith	40º C	A	500	630
		50º C	A	500	630
		60º C	A	400	500
Rated insulation voltage DC20		Ui	V	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V	8000	8000
Rated impulse withstand voltage		Uimp	kV	12	12
Rated operational current *(1) DC21B	Ie	Ue 1000 Vdc	A	500	630

			500	630
Short - circuit behaviour				
Short - circuit making capacity *(2)	Icm	kA (peak)	26	26
Maximum power dissipation		A^2s (x 10^3)	1600	1600
Minimun number of mechanical operations *(3)		Cycles	10000	10000
Minimum number of electrical operations	DC21B 1000V	Cycles	200	200
Maximum weight (without jumpers)		Kg	4,5	4,5

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

Connection diagram

Connection diagram

A S5-06304PR0



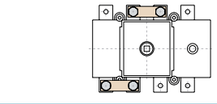
B S5-06304PR0 S5-08004PC0

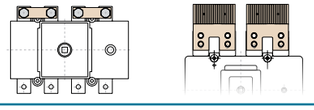


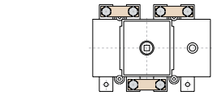
C



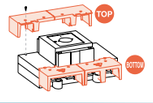
Bridging links

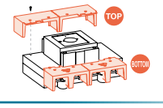


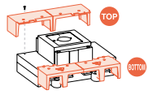




Terminal shrouds







series S5 DC

Accessories



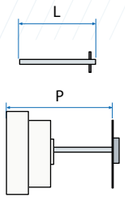
Direct handle
CODE DS-LI21



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA21



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA24



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
195	134... 240

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	134... 400	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	134... 560	DS-EP24



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal protection
CODE DS-CU22
(1 unit for input or output)



Terminal shrouds (2 units for 4P)

	A	B	C
TOP	DS-CU28	DS-CU20	DS-CU20
BOTTOM	DS-CU29	DS-CU21	DS-CU28



Bridging links (2 units)
For S5-06304PR0 B CODE DS-PI21 (2 units)
A C CONSULT

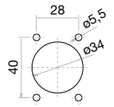


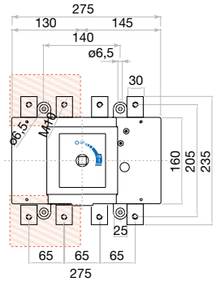
*(P2) For S5-08004PC0 B CODE DS-PI2D (2 units)
A C CONSULT

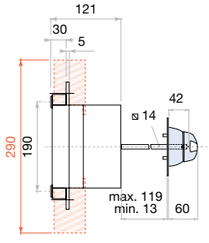
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

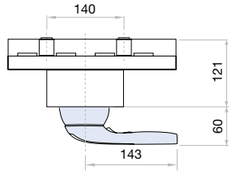
Dimensions (mm)

Door drilling for external handle

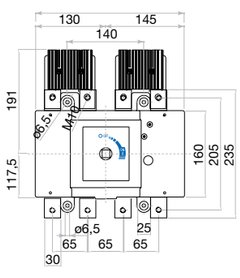


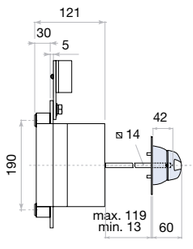


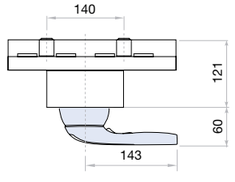




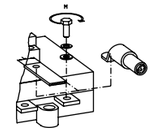
500 A

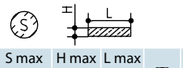






630 A





S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x5	40 50	M10	24

series S5 DC

S5000 DC
Switch - disconnector for DC current 4P - 2P

Size 3
A 850|1250
1000 Vdc



Technical information

According to IEC / EN 60947-1
IEC / EN 60947-3

consult · consult · consult

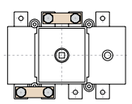
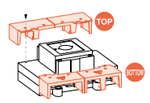
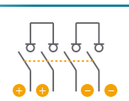
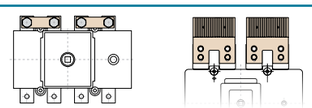
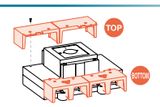
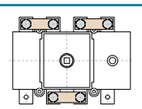
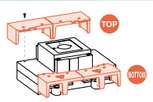
tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

				850	1250
Rated thermal current in ambient at	Ith	40º C	A	850	1250
		50º C	A	850	1250
		60º C	A	700	1000
Rated insulation voltage DC20		Ui	V	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V	8000	8000
Rated impulse withstand voltage		Uimp	kV	12	12
Rated operational current *(1) DC21B	Ie	Ue 1000 Vdc	A	850	1250

Short - circuit behaviour			850	1250
Short - circuit making capacity *(2)	Icm	kA (peak)	60	60
Maximum power dissipation		A^2s (x 10^3)	4900	4900
Minimun number of mechanical operations *(3)		Cycles	10000	10000
Minimum number of electrical operations	DC21B 1000V	Cycles	100	100
Maximum weight (without jumpers)		Kg	7,6	7,6

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

Connection diagram

	Connection diagram	Bridging links	Terminal shrouds
A S5-12504PC0			
B S5-12504PC0 S5-12502EC0			
C			

series S5 DC

Accessories



Direct handle
CODE DS-LI31



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA31



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA33



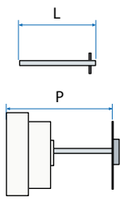
Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds (2 units for 4P)

	A	B	C
TOP	DS-CU38	DS-CU30	DS-CU30
BOTTOM	DS-CU39	DS-CU31	DS-CU38



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
186	145... 242

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	145... 411	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	145... 600	DS-EP24



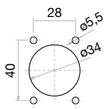
Bridging links (2 units)
For S5-12504PC0 A B CODE DS-PI31 (2 units)
C CONSULT

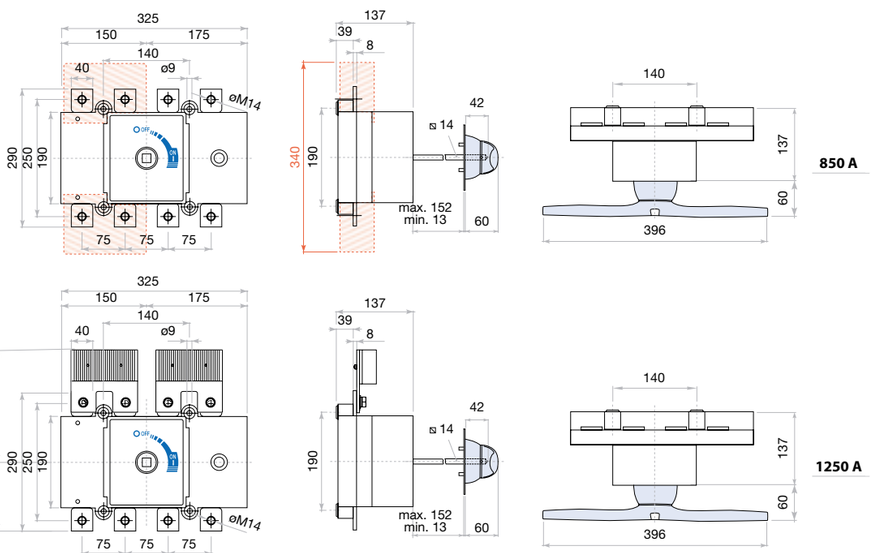
*(P2) For S5-12502EC0 B CODE DS-PI3D (2 units)
A C CONSULT

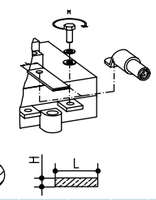
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

Dimensions (mm)

Door drilling for external handle







S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x300	2x10	50	M14	45

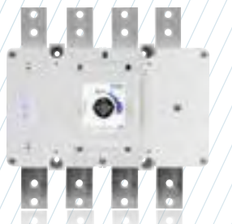
series S5 DC

S5000 DC
Switch - disconnector for DC current 4P - 2P

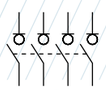
Size 4

A 1250|1800|2000

1000 Vdc



CODE - 1250A
4P S5-18004PS0



4P



CODE - 1800A
2P S5-18002ES0

CODE - 2000A
S5-20002ED0



2P

Technical information

According to IEC/EN 60947-1
IEC/EN 60947-3

consult consult consult

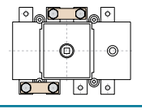
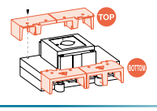
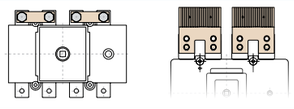
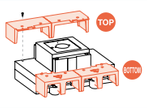
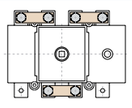
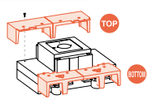
tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

				1250	1800	2000
Rated thermal current in ambient at	Ith 40º C	A	1250	1800	2000
	50º C	A	1250	1620	1800
	60º C	A	1250	1400	1600
Rated insulation voltage DC20	Ui	V	1500	1500	1500
Rated dielectric strength	50 Hz., 1 min.	V	10000	10000	10000
Rated impulse withstand voltage	Uimp	kV	12	12	12
Rated operational current *(1) DC21B	Ie Ue 1000 Vdc	A	1250	1800	2000

Short - circuit behaviour			1250	1800	2000
Short - circuit making capacity *(2)	Icm	kA (peak)	60	60	60
Minimun number of mechanical operations *(3)		Cycles	10000	10000	10000
Minimum number of electrical operations	DC21B 1000V	Cycles	100	100	100
Maximum weight (without jumpers)		Kg	20,8	20,8	20,8

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

Connection diagram

	Connection diagram	Bridging links	Terminal shrouds
A S5-18004PS0			
B S5-18004PS0 S5-18002ES0 S5-20002ED0			
C			

series S5 DC

Accessories



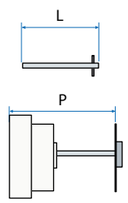
Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
239	235... 400

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
485	235... 686	DS-EP44

Type 2

L (mm)	P (mm)	CODE
635	235... 836	DS-EP45



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds (2 units for 4P)

	A	B	C
TOP	DS-CU48	DS-CU40	DS-CU40
BOTTOM	DS-CU49	DS-CU41	DS-CU48



Bridging links (2 units)
For S5-18004PS0 A B CODE DS-PI41 (2 units)
C CONSULT



*(P2) For S5-18002ES0 S5-20002ED0 B CODE DS-PI4D (2 units)

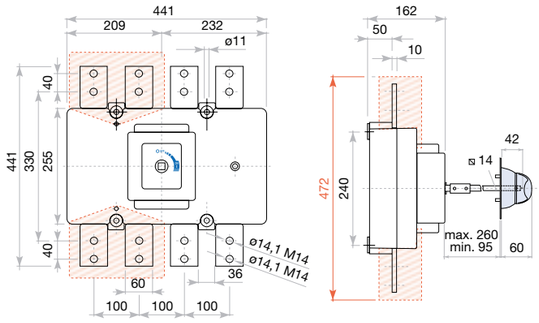
C CONSULT

*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

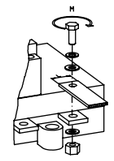
Dimensions (mm)

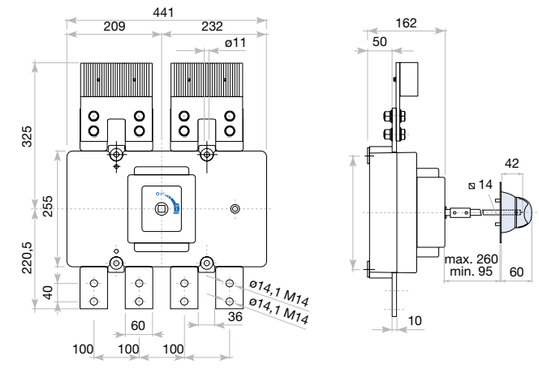
Door drilling for external handle



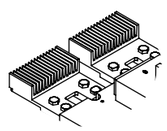


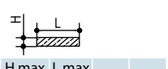
1250 A





1800 A
2000 A





H max (Cu) mm	L max (Cu) mm		M Nxm
2x7	80	M14	55

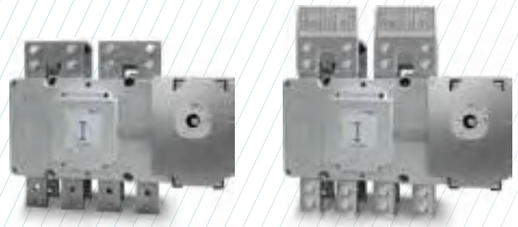
series S5 DC

S5000 DC
Switch - disconnector for DC current 2P

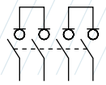
Size 5

A 2000|2500|3150

1000 Vdc



CODE-2000A S5-20002ES0 | CODE-2500A S5-25002ES0 | CODE-3150A S5-31502ES0



2P

Technical information

CE EAC CCC consult

According to IEC/EN 60947-1
IEC/EN 60947-3

					2000	2500	3150
Rated thermal current in ambient at	Ith	40º C	A		2000	2500	3150
		50º C	A		2000	2500	2850
		60º C	A		2000	2205	2500
Rated insulation voltage DC20		Ui	V		1500	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V		10000	10000	10000
Rated impulse withstand voltage		Uimp	kV		8	8	8
Rated operational current DC21B *(1)	Ie	Ue					
		1000 Vdc	A		2000	2500	3150

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

tests:

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

Short - circuit behaviour			2000	2500	3150
Short - circuit making capacity *(2)	Icm	kA (peak)	80	80	80
Minimun number of mechanical operations *(3)		Cycles	2500	2500	2500
Minimum number of electrical operations	DC21B 1000V	Cycles	100	100	100
Maximum weight (without jumpers)		Kg	58	58	58

series S5 DC

Accessories



Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43

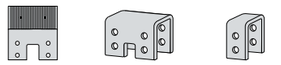


Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

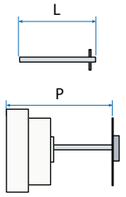


Bridging links *(P2)
2000A CODE DS-PI51 (2 units)
2500A CODE DS-PI51 (2 units)
3150A CODE **x2** DS-PI4D (2 units) + **x2** D5LPC45 (4 units)



DS-PI4D | DS-PI51 | D5LPC45

*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.



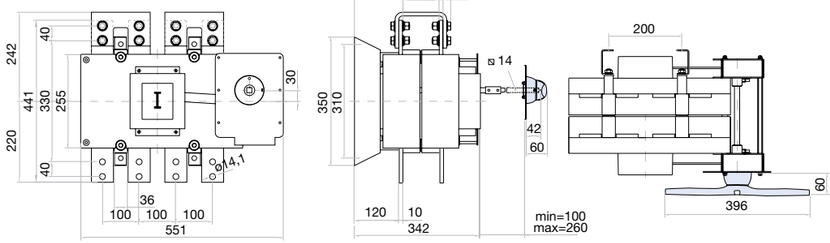
Shafts
Standard shaft included *(e1)

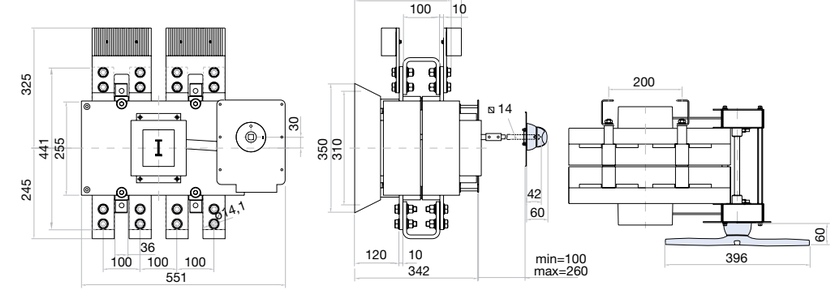
L (mm)	P (mm)
239	420... 580

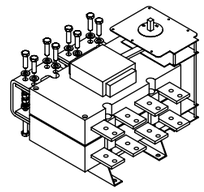
Dimensions (mm)

Door drilling for external handle

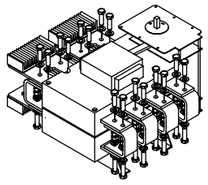








2000 A
2500 A



3150 A



H max (Cu)	L max (Cu)		M
mm	mm		Nxm
3x12	80	M14	45

SWITCH - DISCONNECTORS O-I

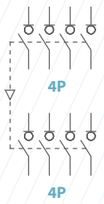
series S5M DC

S5000M DC
Switch - disconnector for DC current 8P
(multi-string)

Size 1
A 250
1000 Vdc



CODE - 250A
S5M02508PR00U



Accessories



» Direct handle
CODE DS-LI12



» External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA12



» External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA15



» Auxiliary contacts
1NA+1NC CODE DS-AU11
2NA+2NC CODE DS-AU12

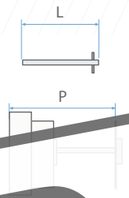
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Terminal shrouds (2 units)

	A	B	C D
TOP	DS-CU18	DS-CU10	DS-CU10
BOTTOM	DS-CU19	DS-CU11	DS-CU18

The shrouds can only be fitted in the front switch.



» Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
277	288... 422



» Bridging links (2 or 3 units)

A B	DS-PI120U	C D DS-PI80U
A B	DS-PI170U	C D DS-PI80U

Technical information

CE EAC

According to IEC/EN 60947-3
GB14048.3

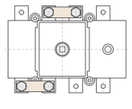
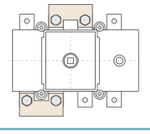
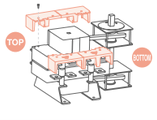
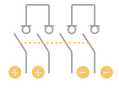
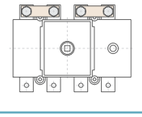
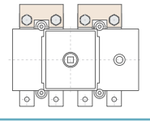
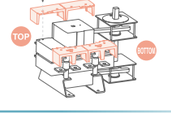
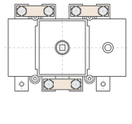
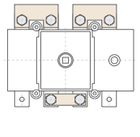
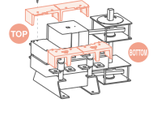
tests:
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY
TOMORROW TODAY

Rated thermal current in ambient at	Ith	40º C	A	250
		50º C	A	
Rated insulation voltage DC20			Ui	V
Rated dielectric withstand		50 Hz		
Rated impulse withstand voltage				kV
Rated operational current DC21B			Ue	
		400 Vdc	A	250
		600 Vdc	A	
		800 Vdc	A	
		1000 Vdc	A	250

Short-circuit behaviour			
Short - circuit making capacity		kA	
Maximum power dissipation		W	
Minimum number of mechanical operations *(e3)		Cycles	
Minimum number of electrical operations	DC21B 1000V	Cycles	200
Maximum weight (without jumpers)		Kg	5,8

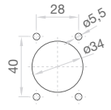
*(1) Other voltages and / or utilization categories: consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult for more operations

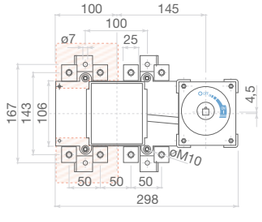
Connection diagram

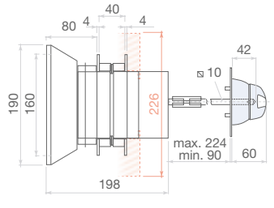
	Connection diagram	Bridging links Front switch	Bridging links Rear switch	Terminal shrouds (On front switch only)
A				
B				
C D				

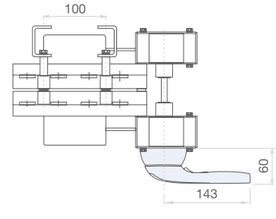
Dimensions (mm)

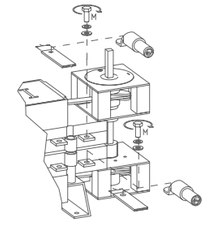
Door drilling for external handle











S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
185	7	25	M10	18

DISCONTINUED PRODUCT

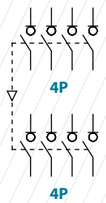
series S5M DC

S5000M DC
Switch - disconnector for DC current 4P + 4P

Size 2
A 630
1000 Vdc



CODE - 630A
S5M063044R0



Technical information

According to IEC60947-3
GB14048.3

				630
Rated thermal current in ambient at	Ith	40º C	A	630
		50º C	A	630
		60º C	A	630
Rated insulation voltage DC20		Ui	V	1500
Rated impulse withstand voltage		Uimp	kV	12
Rated operational current *(1)	Ie	Ue		
DC21B		1000 Vdc	A	630

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

tests:

Short - circuit behaviour			
Short - circuit making capacity *(2)	Icm	kA (peak)	26
Short - time withstand current (1 sec.)	Icw	kA rms	16
Minimun number of mechanical operations *(3)		Cycles	10000
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	17,5

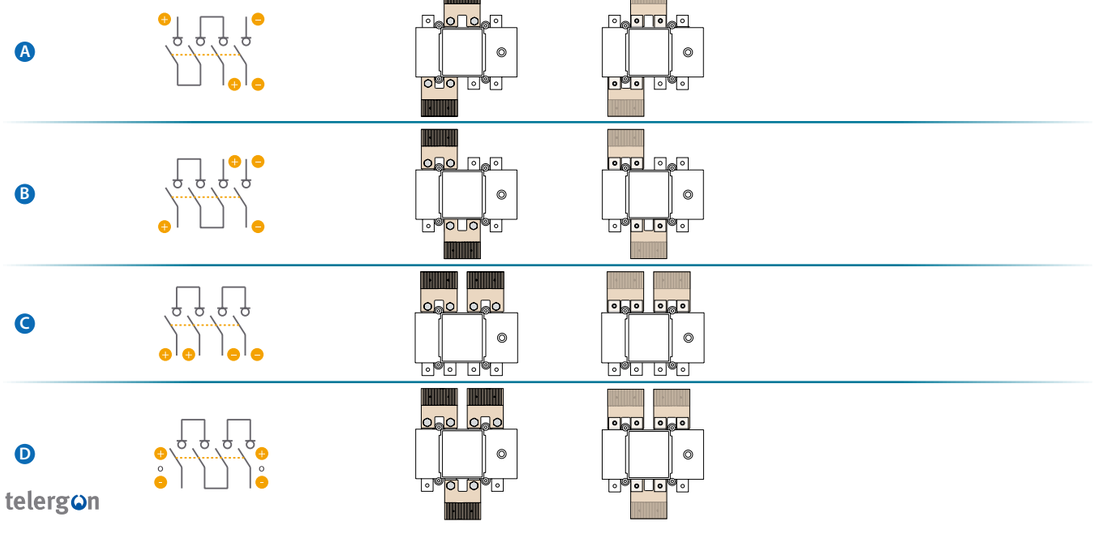
PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

Connection diagram

Connection diagram

Bridging links

Front switch | Rear switch



series S5M DC

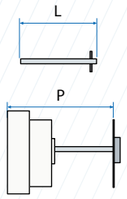
Accessories



Direct handle
CODE DS-LI22



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA22



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	325... 490



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

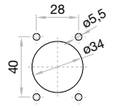


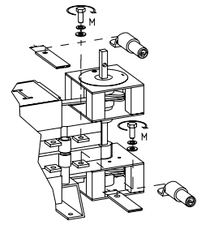
Bridging links *(P2)
CODE DS-PI2D (2 units)

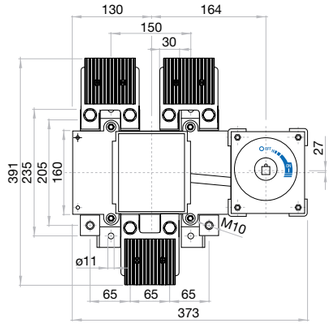
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

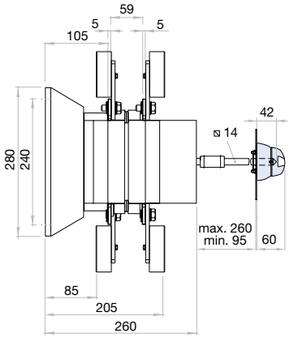
Dimensions (mm)

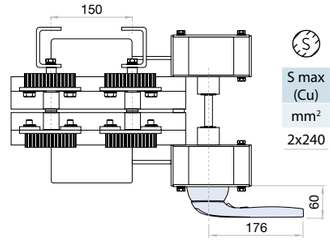
Door drilling for external handle









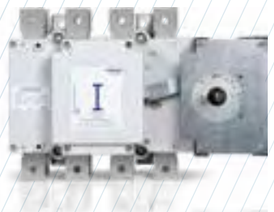


S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x5	40	M10	24

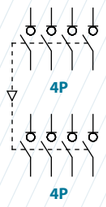
series S5M DC

S5000M DC
Switch - disconnector for DC current 4P + 4P

Size 3
A 1250
1000 Vdc



CODE - 1250A
S5M125044C0



Technical information

According to IEC60947-3
GB14048.3

				1250
Rated thermal current in ambient at	Ith	40º C	A	1250
		50º C	A	1250
		60º C	A	1250
Rated insulation voltage DC20		Ui	V	1500
Rated impulse withstand voltage		Uimp	kV	12
Rated operational current *(1)	Ie	Ue		
DC21B		1000 Vdc	A	1250
Rated dielectric strength		50 Hz., 1 min.	V	8000

tests:

Short - circuit behaviour			
Short - circuit making capacity *(2)	Icm	kA (peak)	60
Short - time withstand current (1 sec.)	Icw	kA rms	25
Minimun number of mechanical operations *(3)		Cycles	10000
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	28,6

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

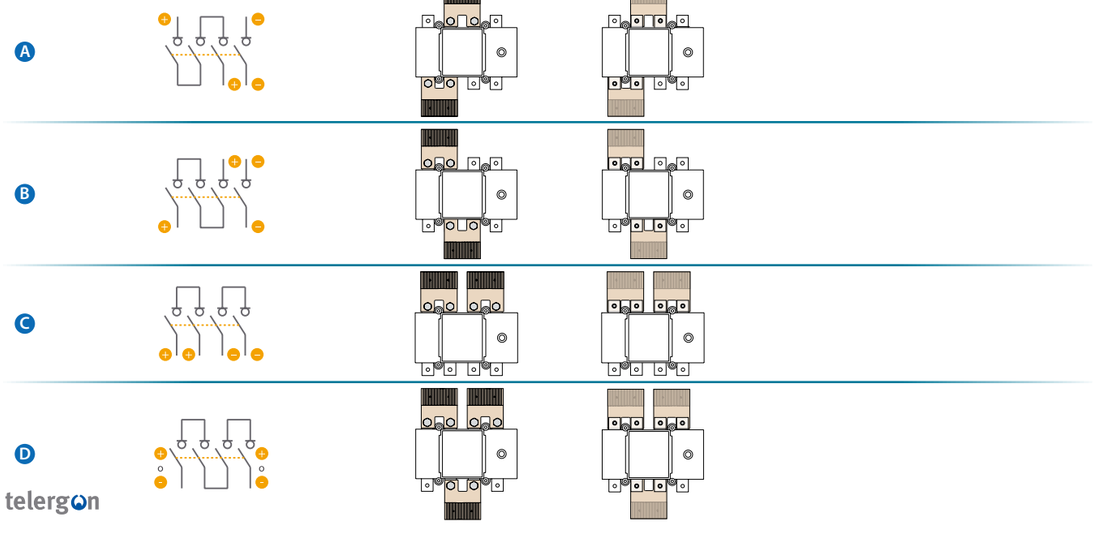
PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

Connection diagram

Connection diagram

Bridging links

Front switch | Rear switch



series S5M DC

Accessories



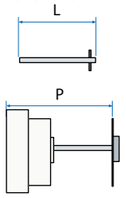
Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

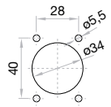


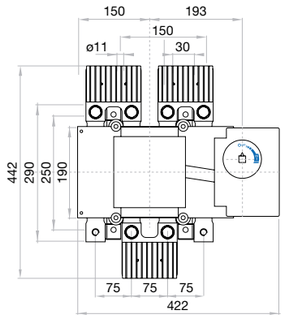
Bridging links *(P2)
CODE DS-PI3D (2 units)

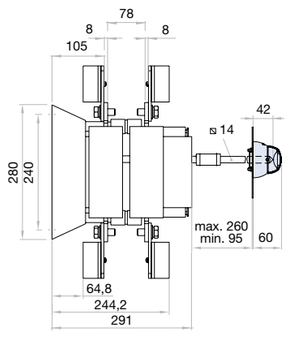
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

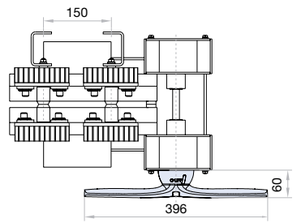
Dimensions (mm)

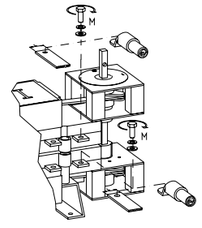
Door drilling for external handle

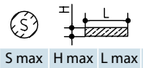












S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x10	50	M14	45

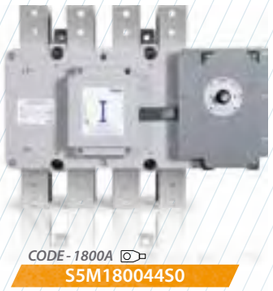
series S5M DC

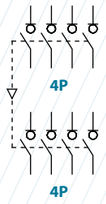
S5000M DC
Switch - disconnector for DC current 4P + 4P

Size 4

A 1800

1000 Vdc





tests:

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Technical information

CE EAC

According to IEC60947-3
GB14048.3

				1800
Rated thermal current in ambient at	Ith	40º C	A	1800
		50º C	A	1800
		60º C	A	1800
Rated insulation voltage DC20		Ui	V	1500
Rated impulse withstand voltage		Uimp	kV	12
Rated operational current *(1) DC21B	Ie	Ue 1000 Vdc	A	1800
Rated dielectric strength		50 Hz., 1 min.	V	10000

Short - circuit behaviour			
Short - circuit making capacity *(2)	Icm	kA (peak)	75
Short - time withstand current (1 sec.)	Icw	kA rms	50
Minimun number of mechanical operations *(3)		Cycles	10000
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	100
Maximum weight (without jumpers)		Kg	72,1

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) Please consult us for more operations

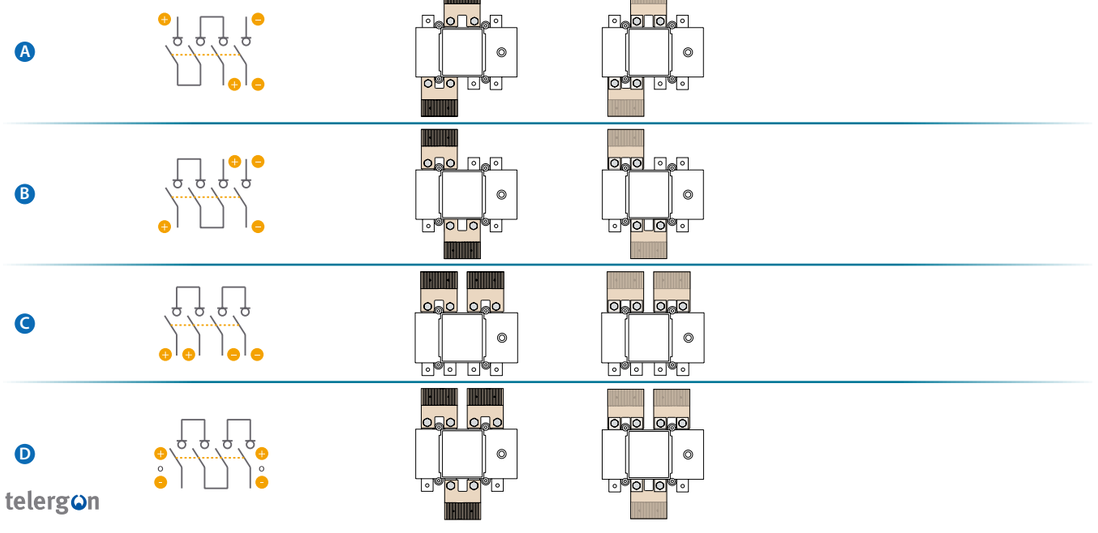
PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

Connection diagram

Connection diagram

Bridging links

Front switch | Rear switch



series S5M DC

Accessories



Direct handle

CODE DS-LI41



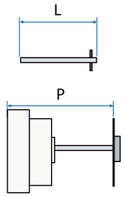
External handle included shaft *(e1)

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Auxiliary contacts

1NO+1NC *CODE* DS-AU11
2NO+2NC *CODE* DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



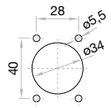
Bridging links *(P2)

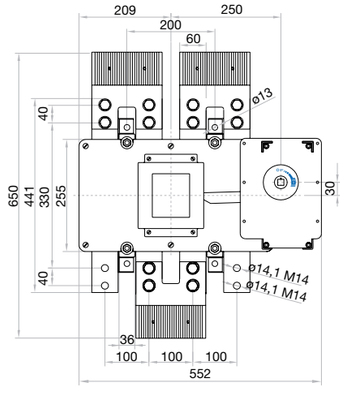
CODE DS-PI4D (2 units)

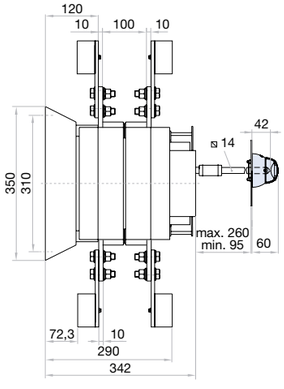
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

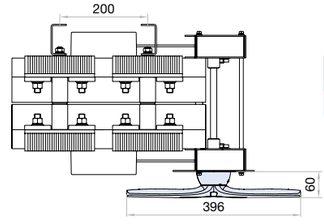
Dimensions (mm)

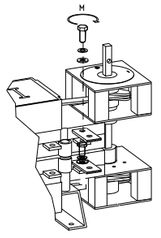
Door drilling for external handle













H max (Cu)	L max (Cu)		M
mm	mm		Nxm
2x7	80	M14	55

SWITCH - DISCONNECTORS O-I

series S5M DC

S5000M DC
Switch - disconnector for DC current 3P+3P 4P+4P

Size 1

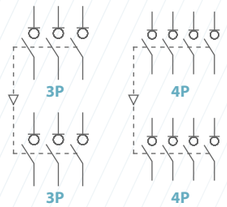
A 200|315

1500 Vdc



3P+3P CODE-200A S5M031533R0

4P+4P CODE-315A S5M031544R0



Accessories



» Direct handle

CODE DS-LI12



» External handle included shaft *(e1)

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12

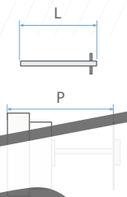
CODE DS-LA12



» External handle without shaft

IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12

CODE DS-LA15



» Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
227	288... 422



» Auxiliary contacts

1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Terminal shrouds (2 units)

	E	C
TOP	DS-CU180U	DS-CU100U
BOTTOM	DS-CU100U	DS-CU180U

The shrouds can only be fitted in the front switch.



» Bridging links (2 units)

4+4

DS-BU120U DS-BU180U

DISCONTINUED PRODUCT

Technical information

CE EAC

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC-EN 60947-1
IEC-EN 60947-3

				3+3	4+4
Rated thermal current in ambient at	Ith	40° C	A	200	315
		50° C	A		
Rated insulation voltage DC20		Ui	V	200	315
Rated dielectric strength		50 Hz, 1 min	V	3500	3500
Rated impulse withstand voltage		Uimp	kV	8	8
Rated operational current		DC21B 1500 Vdc	A	200	315
Rated making capacity		DC21B 1500 Vdc	A	1000	1000

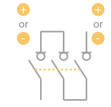
				3+3	4+4
Short-circuit behaviour					
Maximum cut - off current		1500 Vdc	kA	15	15
Short - time withstand current (1 Sec.)			kA	8	8
Conditional short - circuit current (max value) *(2)			kA	50	50
Maximum cut - off current (peak value)			kA (pick)	31	31
Maximum power dissipation			W	100	100
Mechanical operations			Cycles	1000	1000
Minimum number of electrical operations		1500 Vdc	Cycles	200	200
Maximum weight 3+3			Kg	5,5	
Maximum weight 4+4			Kg		5,8

*(1) With a limiting protective device (short-circuit maintained 50 ... 100 ms)
*(2) With a limiting protective device which set a limit to the value short-circuit making capacity and maximum power dissipation to indicated values

Connection diagram

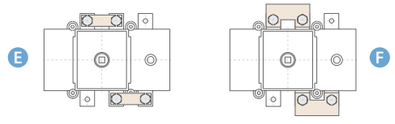
3P+3P

Connection diagram

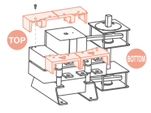


Bridging links

Front switch / Rear switch



Terminal shrouds (On front switch only)



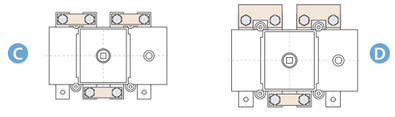
4P+4P

Connection diagram

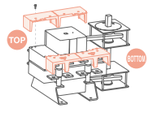


Bridging links

Front switch / Rear switch

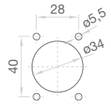


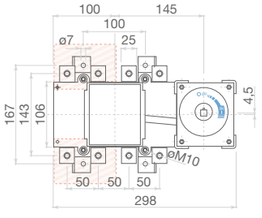
Terminal shrouds (On front switch only)

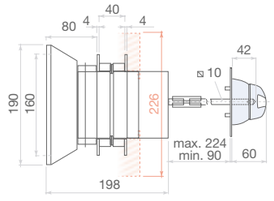


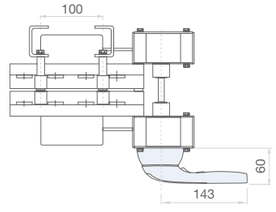
Dimensions (mm)

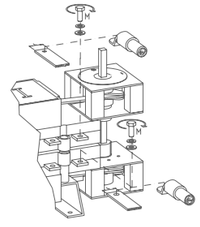
Door drilling for external handle

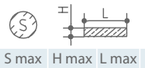












S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
185	7	25	M10	18

SWITCH - DISCONNECTORS O-I

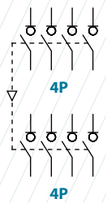
series S5M DC

S5000M DC
Switch - disconnector for DC current 4P + 4P

Size 2
A 500
1500 Vdc



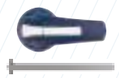
CODE - 500A
S5M063044R0



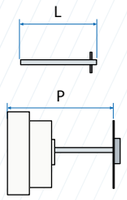
Accessories



» Direct handle
CODE DS-LI22



» External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA22



» Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	325... 490



» Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Bridging links *(P2)
CODE DS-PI2D (2 units)

*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

Technical information

tests:

According to IEC60947-1
IEC60947-3

				500
Rated thermal current in ambient at	Ith	40º C	A	500
		50º C	A	500
		60º C	A	500
Rated insulation voltage DC20		Ui	V	1500
Rated dielectric strength	50 Hz., 1 min.		V	8000
Rated impulse withstand voltage		Uimp	kV	12
Rated operational current DC21B	Ie	Ue		
		1500 Vdc	A	500
Rated making capacity DC21B		Ue		
		1500 Vdc	A	500

*(1) Without limiting protective device (short-circuit maintained 50... 100 ms.)

Short - circuit behaviour			
Maximum cut - off current *(1)	Icm	kA (peak)	26
Short - time withstand current (1 sec.)	Icw	kA rms	16
Minimun number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B 1500 Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	13

PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

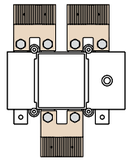
Connection diagram

Connection diagram

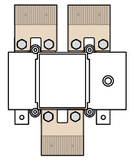


Bridging links

Front switch

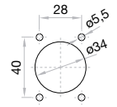


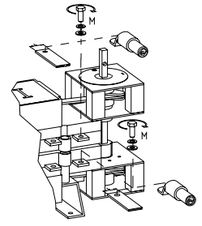
Rear switch

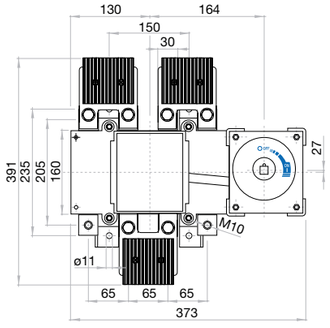


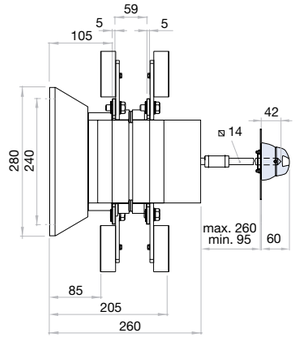
Dimensions (mm)

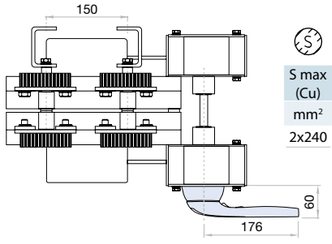
Door drilling for external handle

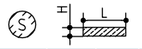












S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x5	40	M10	24

series S5M DC

S5000M DC
Switch - disconnector for DC current 4P + 4P

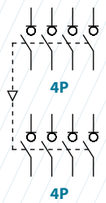
Size 3
A 800|1000
1500 Vdc



CODE - 800A
S5M080044R0



CODE - 1000A
S5M125044C0



Technical information

CE EAC

According to IEC60947-1
IEC60947-3

				800	1000
Rated thermal current in ambient at	Ith	40º C	A	800	1000
		50º C	A	800	1000
		60º C	A	800	1000
Rated insulation voltage DC20		Ui	V	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V	8000	8000
Rated impulse withstand voltage		Uimp	kV	12	12
Rated operational current DC21B	Ie	Ue 1500 Vdc	A	800	1000
Rated making capacity DC21		Ue 1500 Vdc	A	800	1000

*(1) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(2) Please consult us for more operations

Short - circuit behaviour			
Maximum cut - off current *(1)	Icm	kA (peak)	60
Short - time withstand current (1 sec.)	Icw	kA rms	25
Minimun number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B 1500Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	28,6

PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

tests:
AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

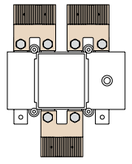
Connection diagram

Connection diagram

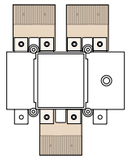


Bridging links

Front switch



Rear switch



series S5M DC

Accessories



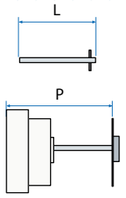
Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

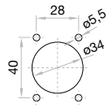


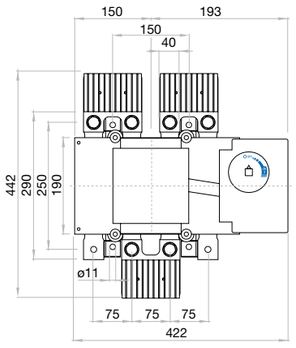
Bridging links *(P2)
CODE DS-PI3D (2 units)

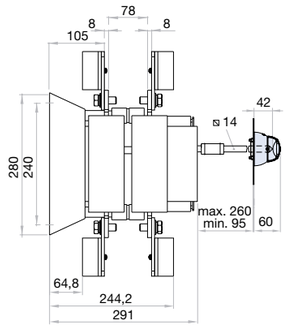
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

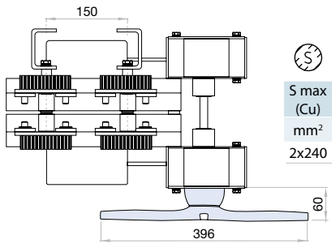
Dimensions (mm)

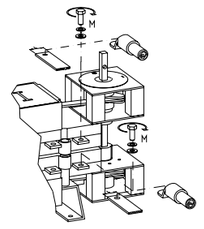
Door drilling for external handle











S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
2x240	2x10	50	M14	45

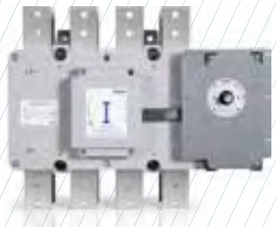
series S5M DC

S5000M DC
Switch - disconnector for DC current 4P + 4P

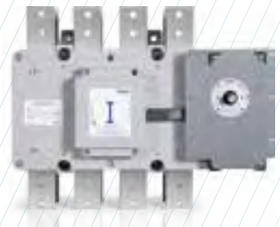
Size 4

A 1250|1800

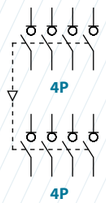
1500 Vdc



CODE - 1250A
S5M160044S0



CODE - 1800A
S5M180044S0



Technical information

CE EAC

According to IEC60947-1
IEC60947-3

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

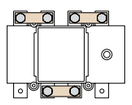
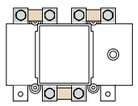
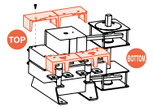
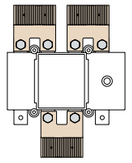
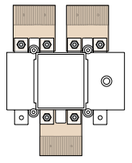
				1250	1800
Rated thermal current in ambient at	Ith	40º C	A	1250	1800
		50º C	A	1250	1800
		60º C	A	1250	1800
Rated insulation voltage DC20		Ui	V	1500	1500
Rated dielectric strength	50 Hz., 1 min.		V	10000	10000
Rated impulse withstand voltage		Uimp	kV	12	12
Rated operational current DC21B	Ie	Ue 1500 Vdc	A	1250	1800
Rated making capacity DC21		Ue 1500 Vdc	A	1250	1800

*(1) Without limiting protective device (short-circuit maintained 50... 100 ms.)

Short - circuit behaviour			
Maximum cut - off current *(1)	Icm	kA (peak)	75
Short - time withstand current (1 sec.)	Icw	kA rms	50
Minimun number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B 1500V	Cycles	100
Maximum weight (without jumpers)		Kg	72,1

PV disconnect switch. Location category B. Minus 20 to +50ºC.
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

Connection diagram

	Connection diagram	Bridging links Front switch	Bridging links Rear switch	Terminal shrouds (On front switch only)
S5M160044S0		D1 		
S5M180044S0		D2 		

series S5M DC

Accessories



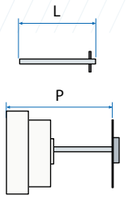
Direct handle
CODE DS-LI41



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA41



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA43



Shafts
Standard shaft included *(e1)

L (mm)	P (mm)
239	408... 573



Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds (2 units)
D1
TOP DS-CU400U
BOTTOM DS-CU480U

The shrouds can only be fitted in the front switch.



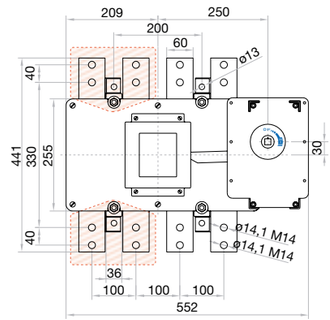
Bridging links *(P2)
C D CODE DS-PI430U (3 units)
E F CODE DS-PI4D (2 units)

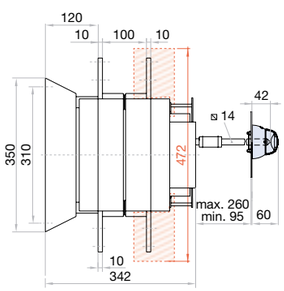
*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

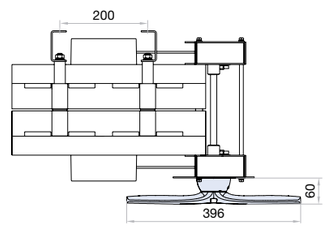
Dimensions (mm)

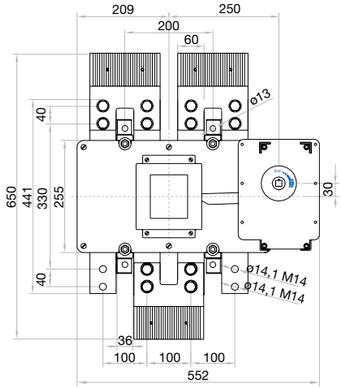
Door drilling for external handle

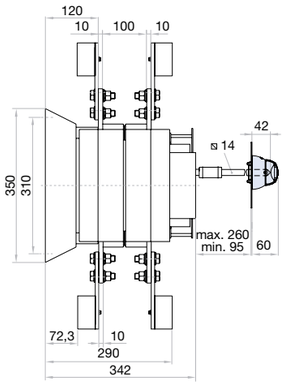


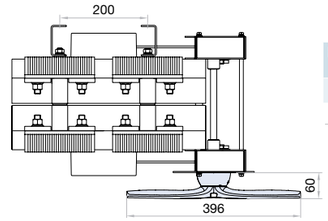


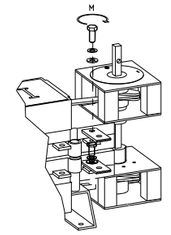














H max (Cu)	L max (Cu)		M
mm	mm		Nxm
2x7	80	M14	55

series S6 DC

S6000 DC
Switch - disconnector base mounting 1P - 2P

Size 1

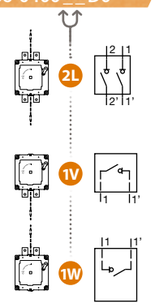
A 125|160|200|250|315|400

500 - 750 - 1000 Vdc



CODE - 500 Vdc

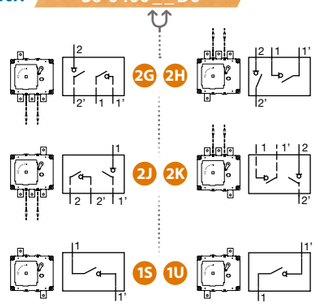
125A	S6-0125__S0
160A	S6-0160__S0
200A	S6-0200__S0
250A	S6-0250__S0
315A	S6-0315__S0
400A	S6-0400__D0





CODE - 750 Vdc

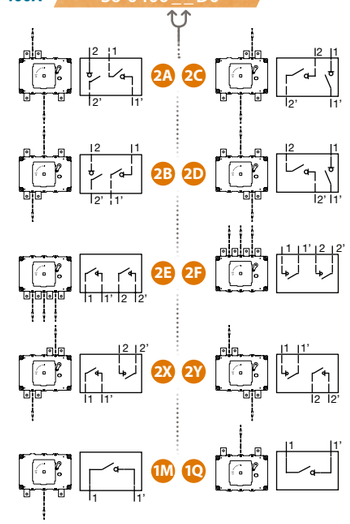
125A	S6-0125__S0
160A	S6-0160__S0
200A	S6-0200__S0
250A	S6-0250__S0
315A	S6-0315__S0
400A	S6-0400__D0





CODE - 1000 Vdc

125A	S6-0125__S0
160A	S6-0160__S0
200A	S6-0200__S0
250A	S6-0250__S0
315A	S6-0315__S0
400A	S6-0400__D0



Technical information

CE IEC IECEE CB SCHEME EAC

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

consult

According to IEC/EN 60947-1
IEC/EN 60947-3

				125	160	200	250	315	400
Rated thermal current in ambient at	Ith	40° C	A	125	160	200	250	315	400
		50° C	A	125	160	200	250	315	400
		60° C	A	125	160	200	250	315	400
Rated insulation voltage (DC)		Ui	V	1500	1500	1500	1500	1500	1500
Rated dielectric strength		50 Hz., 1 min.	V	5000	5000	5000	5000	5000	5000
Rated impulse withstand voltage		Uimp	kV	12	12	12	12	12	12
Rated operational current *(1)	Ie	Code 500 Vdc	A	125	160	200	250	315	400
		Code 750 Vdc DC21B	A	125	160	200	250	315	400
		Code 1000 Vdc	A	125	160	200	250	315	400

			125	160	200	250	315	400
Short - circuit behaviour								
Rated short-circuit making capacity *(2)	Icm	kA (peak)	10	10	10	10	10	10
Rated short-time withstand current (1sec)	Icw	kA rms	10	10	10	10	10	10
Conditional short - circuit current *(3)		kA rms	100	100	100	100	100	100
Mechanical features								
Minimun number of mechanical operations *(4)		Cycles	20000	20000	20000	20000	20000	20000
Maximum weight			Consult according to code					

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values
*(4) Please consult us for more operations

series S6 DC

Accessories



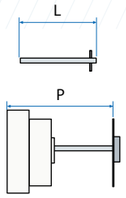
Direct handle
CODE DS-SI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA14



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
227	103... 256

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
375	103... 415	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	103... 576	DS-EP15



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DR-CU11 (1 unit)
CODE DR-CU12 (1 unit)
CODE DR-CU13 (1 unit)



Phase barriers
CODE DR-SF11 (1 unit)
CODE DR-SF12 (2 units)
CODE DR-SF13 (3 units)



Spacers
CODE DR-EL11 (4 units)

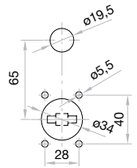


Safety key lock device
Simple CODE DS-CA11
Double CODE DS-CE11

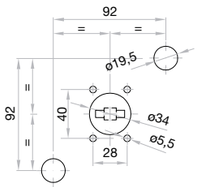
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

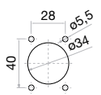


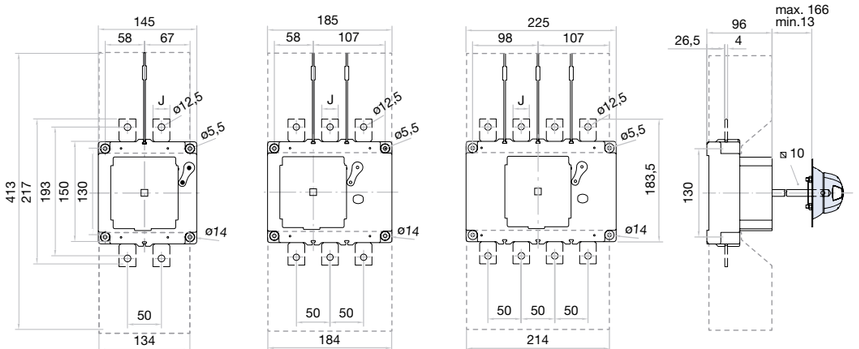
Double



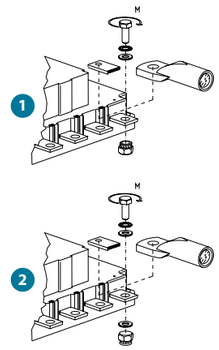
Dimensions (mm)

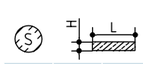
Door drilling for external handle





	J
	mm
125 A	25
160 A	25
200 A	25
250 A	25
315 A	25
400 A	30 *(5)





	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
125 A	95	5	25	M10	18
160 A	95	5	25	M10	18
200 A	120	7	25	M10	18
250 A	150	7	25	M10	18
315 A	185	7	25	M10	18
400 A	240 *(5)	7	35 *(5)	M10	18

*(5) Using phase barriers DR-SF__ to maintain the required clearance .

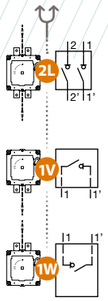
series S6 DC UL

S6ooo DC UL
Switch - disconnector base mounting 1P - 2P

Size 1
A 250
500 - 750 - 1000 Vdc

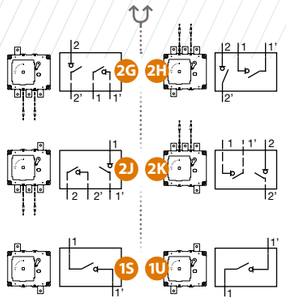


250A CODE - 500 Vdc
S6-0250__S00L



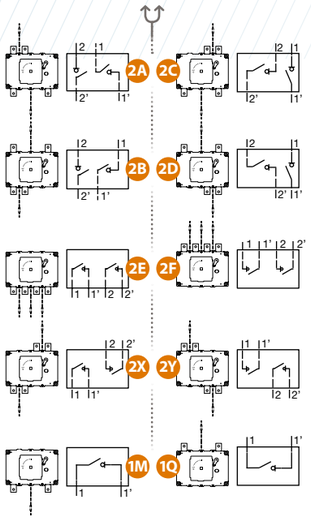


250A CODE - 750 Vdc
S6-0250__S00L





250A CODE - 1000 Vdc
S6-0250__S00L



Technical information

CE UL

According to UL98B

LISTED
E333311

				250
Rated thermal current	Ith	-20ºC to +50ºC	A	250
Rated operational current	Ie	Code 500 Vdc	A	250
		Code 750 Vdc	A	250
		Code 1000 Vdc	A	250
Rated short-circuit current	Icc		kA	10
Maximum weight			Consult according to code	
Wiring capacity				
Minimum connection wire range/AWG			MCM	400
Maximum connection wire range/AWG			MCM	400

250 A

Conforms to UL98B. Minus 20 to +50ºC. PV disconnects switch. Location Category B
1000 Vdc 250 A Torque: 159 lbf-in. Short circuit rating: 10 kA
Suitable for Use in PV Systems in accordance with Article 690 of the NEC
IEC-60947-3 Uimp 12 kV DC21B - 1000 Vdc - 250 A Ui 1500 Vdc Ith 250 A

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

series S6 DC UL

Accessories



Direct handle
CODE DS-SI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11



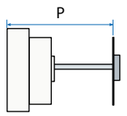
External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA14

Shafts



Standard shaft included *(e1)

L (mm)	P (mm)
227	103... 256



Shaft extensions

Type 1

L (mm)	P (mm)	CODE
375	103... 415	DS-EP14

Type 2

L (mm)	P (mm)	CODE
536	103... 576	DS-EP15



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DR-CU11 (1 unit)
CODE DR-CU12 (1 unit)
CODE DR-CU13 (1 unit)



Phase barriers
CODE DR-SF11 (1 unit)
CODE DR-SF12 (2 units)
CODE DR-SF13 (3 units)



Spacers
CODE DR-EL11 (4 units)

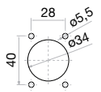


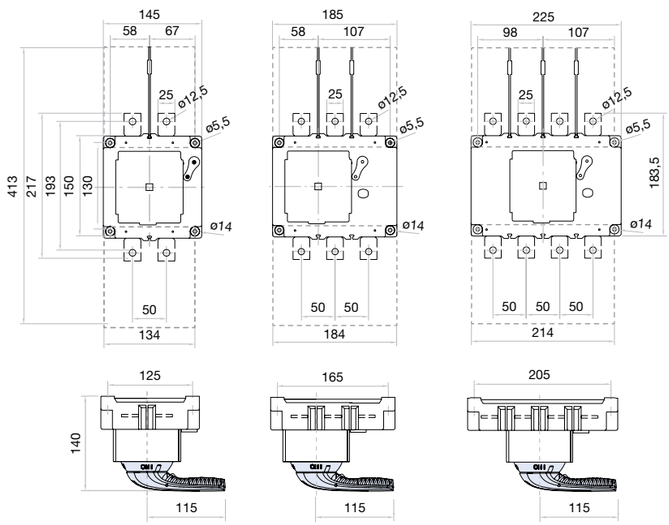
Terminal lug
CODE DR-TL11 (2 units)

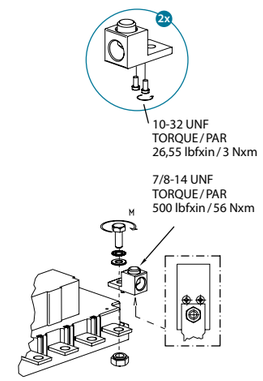
(Using phase barriers DR-SF_ _
to maintain the required clearance)

Dimensions (mm)

Door drilling for external handle







3/0 85 mm² min - 400 kcmil 240 mm² max	Temperature rating	T	Copper wire only M +5% -10%	
			Nxm	lbfxin
	75ºC	M10	18	159

series S6 DC

S6000 DC
Switch - disconnector base mounting 1P - 2P

Size 2

A 500|630

500 - 750 - 1000 Vdc



CODE - 500 Vdc

500A	S6-0500 _ _ S0
630A	S6-0630 _ _ S0



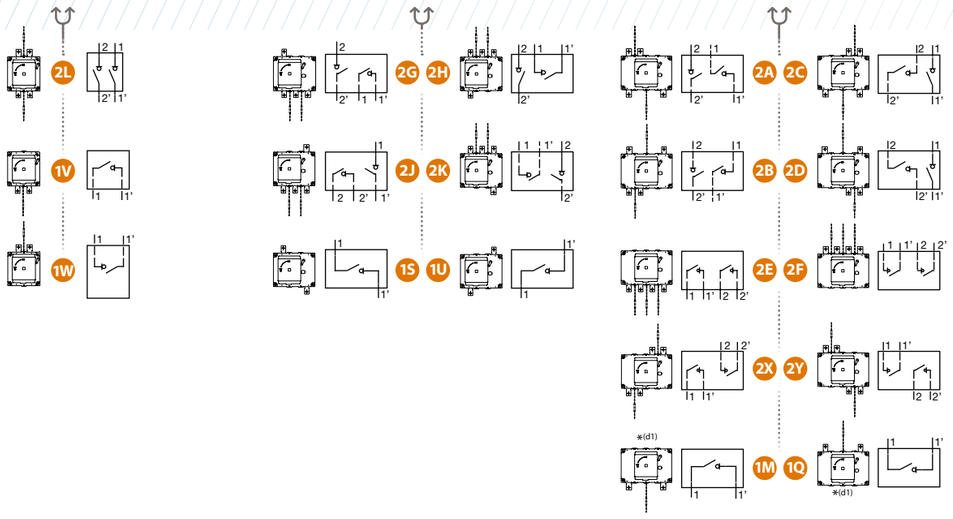
CODE - 750 Vdc

500A	S6-0500 _ _ S0
630A	S6-0630 _ _ S0



CODE - 1000 Vdc

500A	S6-0500 _ _ S0
630A	S6-0630 _ _ S0



*(d1) Only for 500 A.

Technical information

CE IEC IECEE CB SCHEMES EAC

consult

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

According to IEC/EN 60947-1
IEC/EN 60947-3

					500	630
Rated thermal current in ambient at	Ith	40° C		A	500	630
		50° C		A	500	630
		60° C		A	500	630
Rated insulation voltage (DC)	Ui			V	1500	1500
Rated dielectric strength		50 Hz., 1 min.		V	8000	8000
Rated impulse withstand voltage	Uimp			kV	12	12
Rated operational current *(1)	Ie	Code 500 Vdc		A	500	630
		Code 750 Vdc	DC21B	A	500	630
		Code 1000 Vdc		A	500	630

			500	630
Short - circuit behaviour				
Rated short-circuit making capacity *(2)	Icm	kA (peak)	10	10
Rated short-time withstand current (1sec)	Icw	kA rms	10	10
Conditional short - circuit current *(3)		kA rms	100	100
Mechanical features				
Minimun number of mechanical operations *(4)		Cycles	10000	10000
Maximum weight		Consult according to code		

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values
*(4) Please consult us for more operations

series S6 DC

Accessories



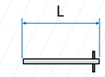
Direct handle
CODE DS-LI21



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA21



External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA24



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
195	134... 240

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	134... 400	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	134... 560	DS-EP24

Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Terminal shrouds
CODE DR-CU21 (1 unit)
CODE DR-CU22 (1 unit)
CODE DR-CU23 (1 unit)



Phase barriers
CODE DR-SF21 (1 unit)
CODE DR-SF22 (2 units)
CODE DR-SF23 (3 units)



Spacers
CODE DR-EL21 (4 units)

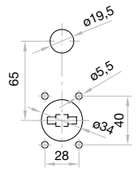


Safety key lock device
Simple CODE DS-CB21
Double CODE DS-CF21

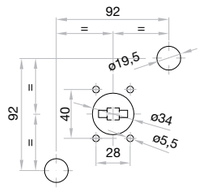
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device

Simple

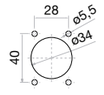


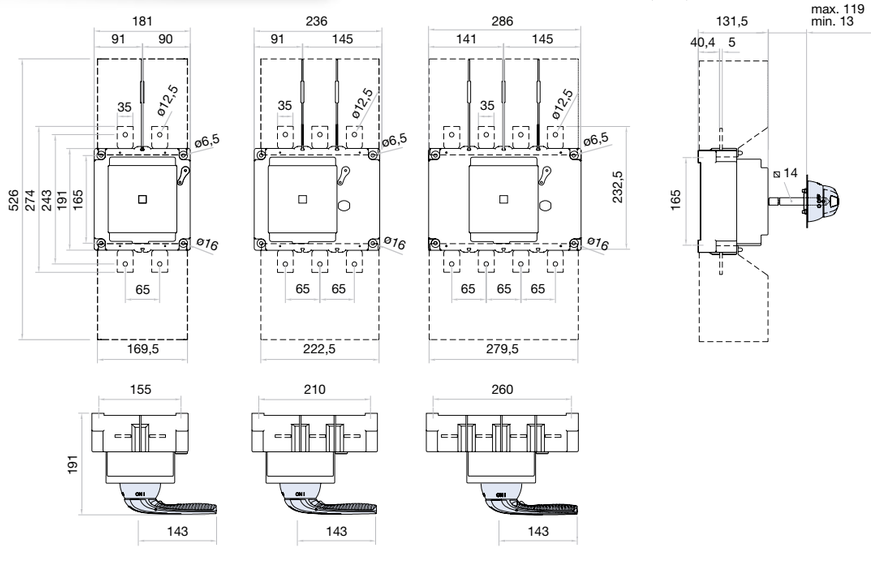
Double

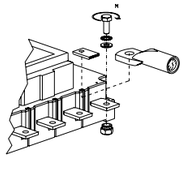


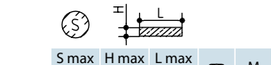
Dimensions (mm)

Door drilling for external handle









	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
500 A	2x150	6	40	M10	24
630 A	2x185	2x5	40	M10	24

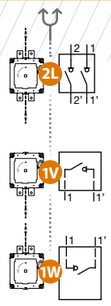
series S6 DC UL

S6ooo DC UL
Switch - disconnector base mounting 1P - 2P

Size 2
A 400
500 - 750 - 1000 Vdc

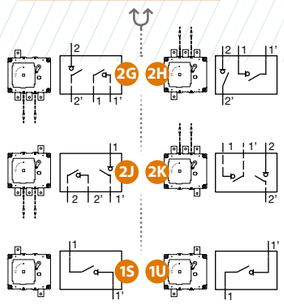


400A CODE - 500 Vdc S6-0400 _ _ S00L



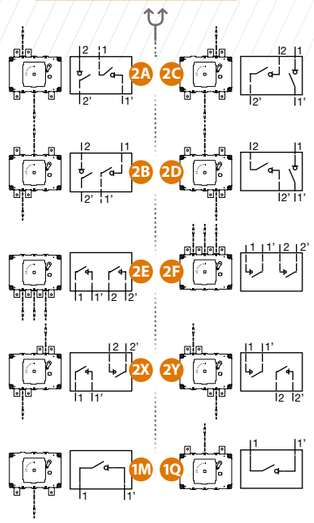


400A CODE - 750 Vdc S6-0400 _ _ S00L





400A CODE - 1000 Vdc S6-0400 _ _ S00L



Technical information

CE UL

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According to UL98 B

LISTED
E333311

Rated thermal current	Ith	-20ºC to +50ºC	A	400
Rated operational current	Ie	Code 500 Vdc	A	400
		Code 750 Vdc	A	400
		Code 1000 Vdc	A	400
Rated short-circuit current	Icc		kA	10
Overload				
Maximum weight			Consult according to code	
Wiring capacity				
Minimum connection wire range/AWG			MCM	2x300
Maximum connection wire range/AWG			MCM	2x350

400 A
Conforms to UL98B. Minus 20 to +50ºC. PV disconnects switch. Location Category B
1000 Vdc 400 A Torque: 212 lbf-in. Short circuit rating: 10 kA
Suitable for Use in PV Systems in accordance with Article 690 of the NEC
IEC-60947-3 Uimp 12 kV DC21B - 1000 Vdc - 400 A Ui 1500 Vdc Ith 400 A

series S6 DC UL

Accessories



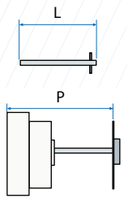
» Direct handle
CODE DS-LI21



» External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA21



» External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-LA24



» Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
195	134... 240

Shaft extensions

Type 1

L (mm)	P (mm)	CODE
345	134... 400	DS-EP23

Type 2

L (mm)	P (mm)	CODE
535	134... 560	DS-EP24



» Auxiliary contacts
1NO+1NC *CODE* D5LAU01
2NO+2NC *CODE* D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Terminal shrouds
CODE DR-CU21 (1 unit)
CODE DR-CU22 (1 unit)
CODE DR-CU23 (1 unit)



» Phase barriers
CODE DR-SF21 (1 unit)
CODE DR-SF22 (2 units)
CODE DR-SF23 (3 units)



» Spacers
CODE DR-EL21 (4 units)

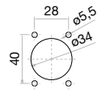


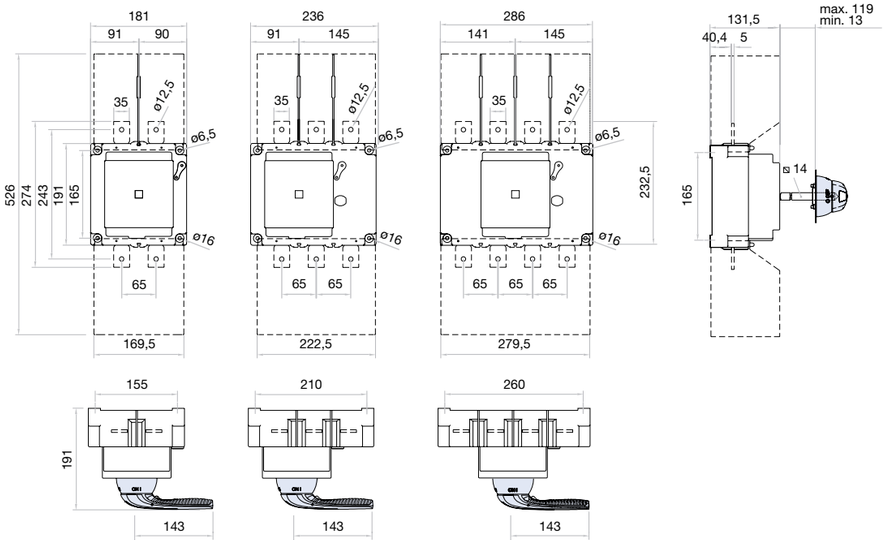
» Terminal lug
CODE DR-TL21 (2 units)
CODE DR-TL22 (2 units)

(Using phase barriers DR-SF_ _
to maintain the required clearance)

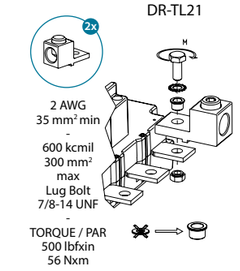
Dimensions (mm)

Door drilling for external handle



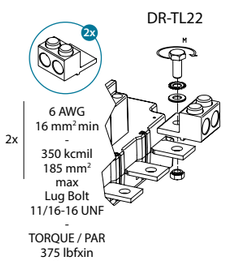


DR-TL21



2 AWG
35 mm² min
-
600 kcmil
300 mm²
max
Lug Bolt
7/8-14 UNF
-
TORQUE / PAR
500 lbfxin
56 Nxm

DR-TL22



6 AWG
16 mm² min
-
350 kcmil
185 mm²
max
Lug Bolt
11/16-16 UNF
-
TORQUE / PAR
375 lbfxin
42 Nxm

Temperature rating		Copper wire only M +5% -10%	
		Nxm	lbfxin
75 ºC	M10	24	212

series S6N DC

S6oooN DC
Switch - disconnector base mounting 1P - 1P

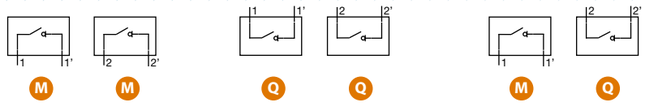
Size 1

A 315|400

1500 Vdc



	CODE - 1500 Vdc	CODE - 1500 Vdc	CODE - 1500 Vdc
315A	S6N0315MMS0	S6N0315QQS0	S6N0315MQS0
400A	S6N0400MMD0	S6N0400QQD0	S6N0400MQD0



Technical information

According to IEC / EN 60947-1
IEC / EN 60947-3

					315	400
Rated thermal current in ambient at	Ith	40º C		A	315	400
		50º C		A	315	400
		60º C		A	315	360
Rated insulation voltage (DC)	Ui			V	1500	1500
Rated dielectric strength		50 Hz., 1 min.		V	5000	5000
Rated impulse withstand voltage			Uimp	kV	12	12
Rated operational current *(1)	Ie	1500 Vdc	DC21B	A	315	400

			315	400
Short - circuit behaviour				
Rated short-circuit making capacity *(2)	Icm	kA (peak)	10	10
Rated short-time withstand current (1sec)	Icw	kA rms	10	10
Conditional short - circuit current *(3)		kA rms	100	100
Mechanical features				
Minimun number of mechanical operations *(4)		Cycles	8000	8000
Maximum weight			4,25	4,29

*(1) Other voltages and / or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)
*(3) With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values
*(4) Please consult us for more operations

series S6N DC

Accessories



Direct handle
CODE DS-SI11



External handle included shaft *(e1)
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA11

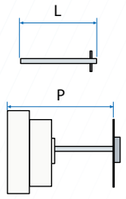


External handle without shaft
IP65|UL50E/NEMA 250
Types: 1, 3R, 4, 4X y 12
CODE DS-SA14



Auxiliary contacts
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02

Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



Shafts

Standard shaft included *(e1)

L (mm)	P (mm)
227	179... 398,5

Shaft extensions

Type 1

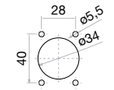
L (mm)	P (mm)	CODE
375	179... 398,5	DS-EP14

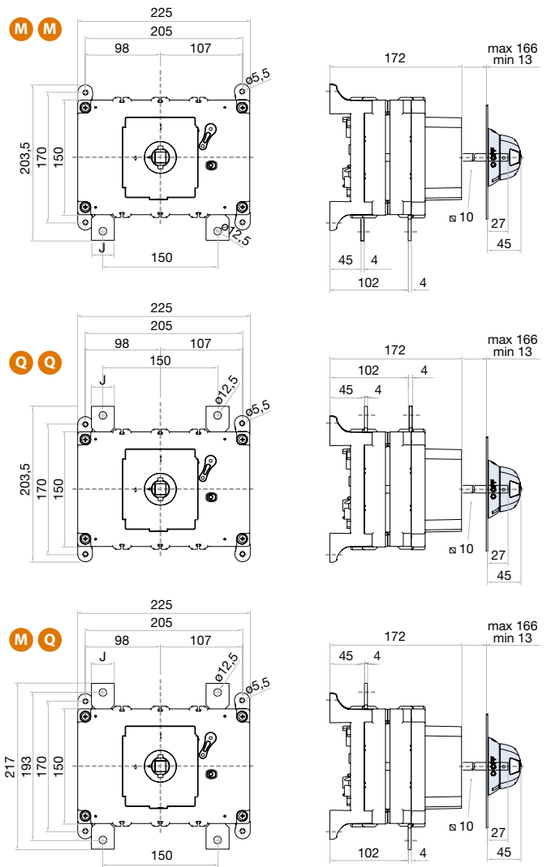
Type 2

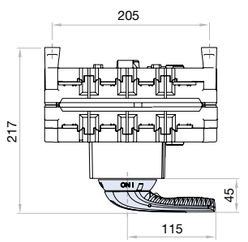
L (mm)	P (mm)	CODE
536	179... 707,5	DS-EP15

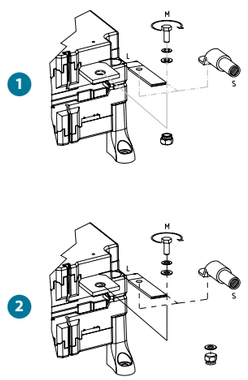
Dimensions (mm)

Door drilling for external handle









	J
315A	25
400A	30

	S max (Cu) mm²	H max (Cu) mm	L max (Cu) mm		M Nxm
315A	185	7	25	M10	18
400A	240	7	35	M10	18

tests: AIT AUSTRIAN INSTITUTE OF TECHNOLOGY TOMORROW TODAY

Code	Page
40110028	47
40110029	47
40110030	46
40110031	46
40111002	46
40111003	46
40111032	47
40111033	47
40111034	46
40111035	46
40112026	47
40112028	46
40112029	46
40113001	46
40113002	46
40113007	46
40113008	46
40113023	46
40113024	46
40140045	47
40140061	47
40140203	47
40141039	47
40141053	47
40141188	47
40142020	47
40142025	47
40142028	47
40142095	47
40143020	47
40143028	47
40143084	47
40143086	47
40143088	47
DM1CU01	133
DM1CU02	133
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CCF02503NS0	146
CCF02503PS0	146
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CIS25A01603NB	106
CIS25A01603PB	106
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CIS25A02003PR	108
CIS25A02503NR	108
CIS25A02503PR	108
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CIS25A12503NS	114
CIS25A12503PS	114
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	153
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	167
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	143
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D5LCF21	149
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	173
	151
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	175
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D5LLA21	161
	153
D5LLA31	163
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D5LPC03	169
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D5LPC42	153
D5LPC42	177
D5LPC45	201 DC
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D5LPCB1	167
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	145
D5LSI02	157
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DCCCU12	147
	171
DCCCU21	149
	173
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	175
DCCCU32	169
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DCCLA31	149
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DCCLI21	147
DCCLI31	149
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DCCPP12	147
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DCCPP22	149
DCCPP31	151
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	131
	133
DM1CU01	121
	123
DM1CU02	121
	123
DM1RLB1	123
	121
DM1SAB1	121
DM1SI01	121
	123
DM1SLB1	123
	121
DM1SRB1	121
DM1SYB1	121
DM1SYB1	123
	125
DM2CU11	135
	147
	171
DM2CU12	125
	135
	147
	171
DM2CU13	125
	135
	147
	171
DM2CU21	127
	137
	149
	173
DM2CU22	127
	137
	149
	173
DM2CU23	127
	137
	149
	173
DM2CU31	129
	139
	151
	175
DM2CU32	129
	139
	151
	175
DM2CU33	129
	139
	151
	175
DM2PP11	125
DM2PP12	125
DM2PP21	125
	127
DM2PP22	125
	127
DM2PP31	129
DM2PP32	129
DM2SI11	125
DM2SI21	127
DM2SI31	129
DR-CU11	101
	109
	219 DC
	221 DC
DR-CU12	101
	219 DC
	221 DC
DR-CU13	101
	219 DC
	221 DC
DR-CU21	103
	111
	223 DC
	225 DC
DR-CU22	103
	223 DC
	225 DC
DR-CU23	103
	223 DC
	225 DC
DR-CU31	113
DR-CU41	121
DR-EL11	101
	219 DC
	221 DC
DR-EL21	103
	223 DC
	225 DC
DR-SF11	101
	219 DC
	221 DC
DR-SF12	101
	219 DC
	221 DC
DR-SF13	101
	219 DC
	221 DC
DR-SF21	103
	223 DC
	225 DC
DR-SF22	103
	223 DC
	225 DC
DR-SF23	103
	223 DC
	225 DC
DR-TL11	221 DC
DR-TL21	225 DC
DR-TL22	225 DC
DS-AU11	83
	87
	89
	93
	145
	155
	157
	159
	161
	163
	165
	177
	179
	201 DC
	203 DC
	205 DC
	207 DC
	209 DC
	211 DC
	213 DC
	215 DC
	217 DC
DS-AU12	83
	87
	89
	91
	93
	145
	155
	157
	159
	161
	163
	165
	177
	179
	201 DC
	203 DC
	205 DC
	207 DC
	209 DC
	211 DC
	213 DC
	215 DC
	217 DC
DS-AU12	153
	155
	157
	159
	161
	163
	165
	177
	179
	201 DC
	203 DC
	205 DC
	207 DC
	209 DC
	211 DC
	213 DC
	215 DC
	217 DC
DS-CA11	79
	101
	109
	125
	131
	135
	219 DC
DS-CAB1	75
	77
	91
	105
	107
	121
	123
	131
	133
DS-CB12	93
	81
	95
DS-CB21	103
	111
	127
	137
	223 DC
DS-CB31	113
	129
	139
DS-CB41	85
	87
	97
	99
	121
DS-CD41	89
DS-CE11	79
	101
	109
	219 DC
DS-CEB1	75
	77
	91
	105
	107
	121
	123
	125
	131
	133
	135
DS-CF11	93
DS-CF21	81
	95
	103
	111
	127
	137
	223 DC
DS-CF31	83
	113
	129
	139
DS-CF41	85
	87
	97
	99
	121
DS-CS41	89
DS-CU01	79
	91
	169
	155
	157
	159
	145
	161
	163
	191 DC
DS-CU10	193 DC
	203 DC
DS-CU100U	211 DC
DS-CU11	79
	193 DC
	201 DC
	203 DC
	93
	159
DS-CU12	79
	93
	193 DC
	211 DC
	159
DS-CU18	193 DC
	203 DC
DS-CU180U	211 DC
DS-CU19	193 DC
	203 DC
DS-CU20	195 DC
	205 DC
DS-CU200U	213 DC
DS-CU21	81
	95
	161
	205 DC
DS-CU22	81
	195 DC
DS-CU28	195 DC
	205 DC
DS-CU280U	213 DC
DS-CU29	195 DC
	205 DC
DS-CU30	197 DC
	207 DC
DS-CU300U	215 DC
DS-CU31	83
	97
	163
DS-CU38	197 DC
	207 DC
DS-CU380U	215 DC
DS-CU39	197 DC
	207 DC
DS-CU40	199 DC
	209 DC
DS-CU400U	217 DC
DS-CU41	85
	165
	177
	179
	199 DC
DS-CU48	199 DC
	209 DC
DS-CU480U	217 DC
DS-CU49	199 DC
	209 DC
DS-DN01	77
	191 DC
DS-EI61	155
DS-EN61	89
DS-EP02	121
	123
	75
	77
DS-EP04	143
	145
	191 DC
DS-EP05	75
	77
	121
	123
	143
	145
	191 DC
DS-EP14	79
	101
	125
	147
	193 DC
	219 DC
	221 DC
	227 DC
DS-EP15	79
	101
	147
	193 DC
	219 DC
	221 DC
	227 DC
DS-EP23	81
	83
	103
	127
	129
	149
	151
	195 DC
	197 DC
	223 DC
	225 DC
DS-EP24	81
	83
	103
	149
	151
	195 DC
	197 DC
	223 DC
	225 DC
DS-EP44	83
	85
	199 DC
DS-EP45	83
	85
	199 DC
DS-LA01	91
DS-LA12	93
	203 DC
DS-LA15	93
	203 DC
	211 DC
DS-LA21	81
	195 DC
	223 DC
	225 DC
DS-LA22	95
	127
	205 DC
	213 DC
DS-LA24	81
	103
	195 DC
	223 DC
	225 DC
DS-LA31	129
	197 DC
DS-LA33	83
	197 DC
DS-LA41	83
	85
	87
	97
	99
	199 DC
	201 DC
	207 DC
	209 DC
	215 DC
	217 DC
DS-LA43	85
	87
	97
	99
	199 DC
	201 DC
	207 DC
	209 DC
	215 DC
	217 DC

You will find references of accessories that being common, they may appear on several pages of this catalogue.
The references with the DC indication, belong to the products for Direct Current.

REFERENCE - PAGE INDEX

Code	Page
DS-LI12	93
	203 DC
	211 DC
DS-LI21	81
	103
	195 DC
	223 DC
	225 DC
DS-LI22	95
	205 DC
	213 DC
DS-LI31	197 DC
	83
DS-LI41	83
	85
	87
	97
	99
	199 DC
	201 DC
	207 DC
	209 DC
	215 DC
	217 DC
DS-LR01	91
DS-LR12	93
DS-LR21	81
	103
DS-LR22	95
	127
DS-LR31	83
	129
DS-LR41	83
	85
	87
	97
	99
DS-PI01	191 DC
DS-PI05	191 DC
DS-PI11	193 DC
	211 DC
DS-PI120U	203 DC
DS-PI130U	203 DC
	211 DC
DS-PI14	193 DC
DS-PI160U	203 DC
	211 DC
DS-PI170U	211 DC
	203 DC
DS-PI21	195 DC
DS-PI220U	205 DC
	213 DC
DS-PI230U	205 DC
	213 DC
DS-PI260U	205 DC
	213 DC
DS-PI270U	213 DC
	205 DC
DS-PI2D	195 DC
DS-PI31	197 DC
DS-PI320U	207 DC
	215 DC
DS-PI330U	207 DC
	215 DC
DS-PI360U	207 DC
	207 DC
	215 DC
DS-PI370U	215 DC
DS-PI3D	197 DC
DS-PI41	199 DC
DS-PI420U	209 DC
	217 DC
DS-PI430U	209 DC
	217 DC
DS-PI460U	209 DC
	217 DC
DS-PI470U	209 DC
	217 DC
DS-PI4D	199 DC
	201 DC
DS-PI51	201 DC
DS-SA01	75
	77
	191 DC
DS-SA02	121
	123
DS-SA03	75
DS-SA03	77
DS-SA03	191 DC
DS-SA11	79
	101
	125
	193 DC
	219 DC
	221 DC
	227 DC
DS-SA14	79
	101
	193 DC
	219 DC
	221 DC
	227 DC
DS-SI01	75
	77
	91
	191 DC
DS-SI11	79
	101
	193 DC
	219 DC
	221 DC
	227 DC
DS-SR01	75
	77
DS-SR02	121
	123
DS-SR11	79
	101
	125
DT-10011	40
DT-10021	40
DT-10031	40
DT-10111	40
DT-10121	40
DT-10131	40
DT-50101	41
DT-50102	41
DT-50103	41
DT-50104	41
DT-50121	41
DT-50123	41
DT-50124	41
DT-50131	41
DT-50133	41
DT-50134	41
DT-70401N07	43
DT-70401R01	43
DT-7041AN02	43
DT-7041AR02	43
DT-7041CN02	43
DT-7041CR02	43
DT-7042AN02	43
DT-7042AR02	43
DT-7042CN02	43
DT-7042CR02	43
DT-70431	43
DT-70432	43
DT-70433	43
DT-70434	43
DT-75401N07	41
DT-75401R01	41
DT-90002	45
DT-90012	45
DT-90022	45
DT-90024	45
DT-90025	45
DT-90026	45
DT-90027	45
DT-90028	45
DT-90031	45
DT-90032	45
DT-90401	45
DT-90421	45
DT-EPR11	41
DT-EPR12	41
DT-EPR21	41
DT-EPR22	41
FV-B1	189 DC
FV-B2	189 DC
IPTA00404PS0	116
IPTA00634PS0	116
IPTA01004PS0	116
IPTA01604PS0	116
IPTA02004PS0	116
IPTA02504PS0	116
IPTA04004PS0	116
IPTA06304PTO	116
IPTR01603NB0	116
IPTR02503NB0	116
IPTR04003NB0	116
IPTR06303NT0	116
IPTU01603NB0	116
IPTU02503NB0	116
IPTU04003NB0	116
IPTU06303NT0	116
M1100322PBBA0	120
M1100323NBBA0	120
M1100323PBBA0	120
M1100502PBC20	120
M1100503NBC20	120
M1100503PBC20	120
M1100632PBBB0	120
M1100632PBDB0	120
M1100633NBBB0	120
M1100633NBDB0	120
M1100633PBBB0	120
M1100633PBDB0	120
M1101002PBB00	122
M1101002PBDB0	120
M1101002PTB00	122
M1101003NBB00	122
M1101003NBDB0	120
M1101003NTB00	122
M1101003PBB00	122
M1101003PBDB0	120
M1101003PTB00	122
M1101252PBC30	122
M1101252PBDB0	122
M1101252PTC30	122
M1101252PTDB0	122
M1101253NBC30	122
M1101253NBDB0	122
M1101253NTC30	122
M1101253NTDB0	122
M1101253PBC30	122
M1101253PBDB0	122
M1101253PTC30	122
M1101253PTDB0	122
M1101602PBDB0	122
M1101602PTDB0	122
M1101603NBDB0	122
M1101603NTDB0	122
M1101603PBDB0	122
M1101603PTDB0	122
M2101603NSB10	124
M2101603NSD00	124
M2101603PSB10	124
M2101603PSD00	124
M2102003NSB20	124
M2102003PSB20	124
M2102503NSB20	124
M2102503NSD10	126
M2102503PSB20	124
M2102503PSD10	126
M2103153NSB40	126
M2103153PSB40	126
M2104003NSB50	126
M2104003NSD20	126
M2104003PSB50	126
M2104003PSD20	126
M2106303NSB70	128
M2106303NSD30	128
M2106303PSB70	128
M2106303PSD30	128
M2108003NSB80	128
M2108003NSD30	128
M2108003PSB80	128
M2108003PSD30	128
S5-00402PB0	74
S5-00403NB0	74
S5-00403PB0	74
S5-00632PB0	74
S5-00633NB0	74
S5-00633PB0	74
S5-00802PB0	74
S5-00803NB0	74
S5-00803PB0	74
S5-01252PB0	76
S5-01252PS0	76
S5-01253NB0	76
S5-01253NS0	76
S5-01253PB0	76
S5-01253PS0	76
S5-01254PR0	192 DC
S5-01602PB0	76
S5-01602PS0	76
S5-01603NB0	76
S5-01603NS0	76
S5-01603PB0	76
S5-01603PS0	76
S5-01604PB0	190 DC
S5-01604PS0	190 DC
S5-02002PS0	76
S5-02003NS0	76
S5-02003PS0	76
S5-02004PR0	192 DC
S5-02502PD0	76
S5-02502PR0	78
S5-02503ND0	76
S5-02503NR0	78
S5-02503PD0	76
S5-02503PR0	78
S5-03152PR0	78
S5-03153NR0	78
S5-03153PR0	78
S5-03154PR0	192 DC
S5-04002PC0	78
S5-04003NC0	78
S5-04003PC0	78
S5-04004PC0	192 DC
S5-05003NR0	80
S5-05003PR0	80
S5-06303NR0	80
S5-06303PR0	80
S5-06304PR0	194 DC
S5-08003NC0	80
S5-08003NR0	82
S5-08003PC0	80
S5-08003PR0	82
S5-08004PC0	194 DC
S5-10003NC0	82
S5-10003NS0	84
S5-10003PC0	82
S5-10003PS0	84
S5-12502EC0	196 DC
S5-12503NC0	82
S5-12503NS0	84
S5-12503PC0	82
S5-12503PS0	84
S5-12504PC0	196 DC
S5-16003NS0	84
S5-16003PS0	84
S5-18002ES0	198 DC
S5-18003NS0	84
S5-18003PS0	84
S5-18004PS0	198 DC
S5-20002ED0	198 DC
S5-20002ES0	200 DC
S5-20003NC0	82
S5-20003ND0	84
S5-20003NP0	86
S5-20003PC0	82
S5-20003PP0	86
S5-25002ES0	200 DC
S5-25003NP0	86
S5-25003PP0	86
S5-31502ES0	200 DC
S5-31503NP0	86
S5-31503PP0	86
S5-40003NP0	88
S5-40003PP0	88
S5-50003NP0	88
S5-50003PP0	88
S5-60003NP0	88
S5-60003PP0	88
S5B01253NS0	156
S5B01253PS0	156
S5B01603NS0	156
S5B01603PS0	156
S5B02003NS0	156
S5B02003PS0	156
S5B02503NR0	158
S5B02503PR0	158
S5B03153NR0	158
S5B03153PR0	158
S5B04003NC0	158
S5B04003PC0	158
S5B05003NR0	160
S5B05003PR0	160
S5B06303NR0	160
S5B06303PR0	160
S5B08003NR0	162
S5B08003PR0	162
S5B10003NC0	162
S5B10003PC0	162
S5B12503NS0	164
S5B12503PS0	164
S5B16003NS0	164
S5B16003PS0	164
S5B18003NS0	164
S5B18003PS0	164
S5B20003ND0	164
S5B20003PD0	164
S5F01253NS0	144
S5F01253PS0	144
S5F01603NS0	144
S5F01603PS0	144
S5F02003NS0	144
S5F02003PS0	144
S5F16003NS0	152
S5F16003PS0	152
S5F18003NS0	152
S5F18003PS0	152
S5F20003ND0	152
S5F20003NP0	154
S5F20003PD0	152
S5F20003PP0	154
S5F25003NP0	154
S5F25003PP0	154
S5F31503NP0	154
S5F31503PP0	154
S5L00403NB0	142
S5L00403PB0	142
S5L00633NB0	142
S5L00633PB0	142
S5L00803NB0	142
S5L00803PB0	142
S5L01253NB0	144
S5L01253PB0	144
S5L01603NB0	144
S5L01603PB0	144
S5M01256PS0	90
S5M01258PS0	90
S5M01606PS0	90
S5M01608PS0	90
S5M02006PS0	90
S5M02008PS0	90
S5M02506PR0	92
S5M02508PR0	92
S5M02508PR00U	202 DC
S5M031533R0	210 DC
S5M031544R0	210 DC
S5M03156PR0	92
S5M03158PR0	92
S5M04006PC0	92
S5M04008PC0	92
S5M05006PR0	94
S5M05008PR0	94
S5M063033R0	212 DC
S5M063044R0	212 DC
S5M06306PR0	94
S5M06308PR0	94
S5M06308PR00U	204 DC
S5M08006PR0	96
S5M08008PR0	96
S5M10006PC0	96
S5M10008PC0	96
S5M125033C0	214 DC
S5M125044C0	214 DC
S5M12506PS0	98
S5M12508PC00U	206 DC
S5M12508PS0	98
S5M16006PS0	98
S5M16008PS0	98
S5M180033S0	216 DC
S5M180044S0	216 DC
S5M18006PS0	98
S5M18008PS0	98
S5M18008PS00U	208 DC
S5M20006PD0	98
S5M20008PD0	98
S6-01251MS0	218 DC
S6-01251QS0	218 DC
S6-01251SS0	218 DC
S6-01251US0	218 DC
S6-01251VS0	218 DC
S6-01251WS0	218 DC
S6-01252AS0	218 DC
S6-01252BS0	218 DC
S6-01252CS0	218 DC
S6-01252DS0	218 DC
S6-01252ES0	218 DC
S6-01252FS0	218 DC
S6-01252GS0	218 DC
S6-01252HS0	218 DC
S6-01252JS0	218 DC
S6-01252KS0	218 DC
S6-01252LS0	218 DC
S6-01252XS0	218 DC
S6-01252YS0	218 DC
S6-01601MS0	218 DC
S6-01601QS0	218 DC
S6-01601SS0	218 DC
S6-01601US0	218 DC
S6-01601VS0	218 DC
S6-01601WS0	218 DC
S6-01602AS0	218 DC
S6-01602BS0	218 DC
S6-01602CS0	218 DC
S6-01602DS0	218 DC
S6-01602ES0	218 DC
S6-01602FS0	218 DC
S6-01602GS0	218 DC
S6-01602HS0	218 DC
S6-01602JS0	218 DC
S6-01602KS0	218 DC
S6-01602LS0	218 DC
S6-01602XS0	218 DC
S6-01602YS0	218 DC
S6-02001MS0	218 DC
S6-02001QS0	218 DC
S6-02001SS0	218 DC
S6-02001US0	218 DC
S6-02001VS0	218 DC
S6-02001WS0	218 DC
S6-02002AS0	218 DC
S6-02002BS0	218 DC
S6-02002CS0	218 DC
S6-02002DS0	218 DC
S6-02002ES0	218 DC
S6-02002FS0	218 DC
S6-02002GS0	218 DC
S6-02002HS0	218 DC
S6-02002JS0	218 DC
S6-02002KS0	218 DC
S6-02002LS0	218 DC
S6-02002PS0	100
S6-02002XS0	218 DC
S6-02002YS0	218 DC
S6-02003NS0	100
S6-02003PS0	100
S6-02501MS0	218 DC
S6-02501MS00L	220 DC
S6-02501QS0	218 DC
S6-02501QS00L	220 DC
S6-02501SS0	218 DC
S6-02501SS00L	220 DC
S6-02501US0	218 DC
S6-02501US00L	220 DC
S6-02501VS0	218 DC
S6-02501VS00L	220 DC
S6-02501WS0	218 DC
S6-02501WS00L	220 DC
S6-02502AS0	218 DC
S6-02502AS00L	220 DC
S6-02502BS0	218 DC
S6-02502BS00L	220 DC
S6-02502CS0	218 DC
S6-02502CS00L	220 DC
S6-02502DS0	218 DC
S6-02502DS00L	220 DC
S6-02502ES0	218 DC
S6-02502ES00L	220 DC
S6-02502FS0	218 DC
S6-02502FS00L	220 DC
S6-02502GS0	218 DC
S6-02502GS00L	220 DC
S6-02502HS0	218 DC
S6-02502HS00L	220 DC
S6-02502JS0	218 DC
S6-02502JS00L	220 DC
S6-02502KS0	218 DC
S6-02502KS00L	220 DC
S6-02502LS0	218 DC
S6-02502LS00L	220 DC
S6-02502PS0	100
S6-02502XS0	218 DC
S6-02502XS00L	220 DC
S6-02502YS0	218 DC
S6-02502YS00L	220 DC
S6-02503NS0	100
S6-02503PS0	100
S6-03151MS0	218 DC
S6-03151QS0	218 DC
S6-03151SS0	218 DC
S6-03151US0	218 DC
S6-03151VS0	218 DC
S6-03151WS0	218 DC
S6-03152AS0	218 DC
S6-03152BS0	218 DC
S6-03152CS0	218 DC
S6-03152DS0	218 DC
S6-03152ES0	218 DC
S6-03152FS0	218 DC
S6-03152GS0	218 DC
S6-03152HS0	218 DC
S6-03152JS0	218 DC
S6-03152KS0	218 DC
S6-03152LS0	218 DC
S6-03152PS0	100
S6-03152XS0	218 DC
S6-03152YS0	218 DC
S6-03153NS0	100
S6-03153PS0	100
S6-04001MD0	218 DC
S6-04001MS00L	224 DC
S6-04001QD0	218 DC
S6-04001QS00L	224 DC
S6-04001SD0	218 DC
S6-04001SS00L	224 DC
S6-04001UD0	218 DC
S6-04001US00L	224 DC
S6-04001VD0	218 DC
S6-04001VS00L	224 DC
S6-04001WD0	218 DC
S6-04001WS00L	224 DC
S6-04002AD0	218 DC
S6-04002BD0	218 DC
S6-04002CD0	218 DC
S6-04002DD0	218 DC
S6-04002ED0	218 DC
S6-04002FD0	218 DC
S6-04002GD0	218 DC
S6-04002HD0	218 DC
S6-04002JD0	218 DC
S6-04002KD0	218 DC
S6-04002LD0	218 DC
S6-04002PD0	100
S6-04002XD0	218 DC
S6-04002XS00L	224 DC
S6-04002YD0	218 DC
S6-04002YS00L	224 DC
S6-04003ND0	100
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S6-05002BS0	222 DC
S6-05002CS0	222 DC
S6-05002DS0	222 DC
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S6-05002FS0	222 DC
S6-05002GS0	222 DC
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S6-05003PS0	102
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S6-06302HS0	222 DC
S6-06302JS0	222 DC
S6-06302KS0	222 DC
S6-06302LS0	222 DC
S6-06302PS0	102
S6-06302XS0	222 DC
S6-06302YS0	222 DC
S6-06303NS0	102
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S6-08002PD0	102
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S6N0315MMS0	226 DC
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S6N0315QQS0	226 DC
S6N0400MMD0	226 DC
S6N0400MQD0	226 DC
S6N0400QQD0	226 DC
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UM-C1A230Z	184
UM-C21120Z	184
UM-C21230Z	184
UM-C21277Z	184
UM-C31120Z	184
UM-C31230Z	184
UM-C31277Z	184
UM-C35120Z	184
UM-C35230Z	184
UM-C35277Z	184
UM-S1A230Z	182
UM-S2A230Z	182
UM-S21120Z	182
UM-S21230Z	182
UM-S21277Z	182
UM-S31120Z	182
UM-S31230Z	182
UM-S31277Z	182
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UM-S32230Z	182
UM-S32277Z	182
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ZBKLH11X	63
ZBKLH11X	65
ZBKLH11X	67
ZBKLH11X	69
ZBKLH11X	71
ZBKLTXX-E/V	69
ZBKLTXX-N/V	69
ZBKN40E	63
ZBKN40V	65
ZBKN40V	67
ZBKN80E	63
ZBKN80V	65
ZBKN80V	67
ZBKPE80E	63
ZBKPE80V	65
ZBKPE80V	67
ZBKPE80V	69
ZBKPEN80E	63
ZBKPEN80V	65
ZBKPEN80V	67
ZBKPEN80V	69
ZFV16SMAH1A4O	188 DC
ZFV16VZVH4A4O	188 DC
ZFV25SMAH1A4O	188 DC
ZFV25VZVH4A4O	188 DC
ZFV32PFLH4A4O	188 DC
ZFV32SMAH1A4O	188 DC
ZFV32VZVH4A4O	188 DC
ZFV40SMAH1A4O	188 DC
ZFV40VZVH4A4O	188 DC
ZFV55PFH4A40	188 DC
ZFV55SMAH1A4O	188 DC
ZFV55VZVH4A4O	188 DC

You will find references of accessories that being common, they may appear on several pages of this catalogue.
The references with the DC indication, belong to the products for Direct Current.

Utilization categories

Utilization categories according to IEC/EN 60947-3			
Nature of current	Utilization category		Typical applications
	Category A *(2)	Category B *(3)	
AC	AC-20A *(1)	AC-20B *(1)	Connecting and disconnecting under no-load conditions
	AC-21A	AC-21B	Switching of resistive loads including moderate overloads
	AC-22A	AC-22B	Switching of mixed resistive and inductive loads, including moderate overloads
	AC-23A	AC-23B	Switching of motor loads or other highly inductive loads
DC	DC-20A *(1)	DC-20B *(1)	Connecting and disconnecting under no-load conditions
	DC-21A	DC-21B	Switching of resistive loads including moderate overloads
	DC-22A	DC-22B	Switching of mixed resistive and inductive loads, including moderate overloads (e.g.: motores shunt)
	DC-23A	DC-23B	Switching of highly inductive loads (e.g. series motors)
*(1) The use of these utilization categories is not permitted in the EE.UU.			
*(2) **A** Repeatedly operation			
*(3) **B** Not very repeatedly operation			

Category AC-23 includes occasional switching of individual motors. The switching of capacitos or of tungsten filament lamps shall be subject to agreement between manufacturer and user.

The utilization categories referred do not apply to an equipment normally used to start, accelerate and / or stop individual motors. The utilization categories for such equipment are explained next:

Utilization category		Typical applications
AC	AC-2	Slip-ring motors: starting, plugging [a], switching off
	AC-3	Squirrel-cage motors: starting, switching off of motors during running
	AC-4	Squirrel-cage motors: starting, plugging [a], inching [b]
DC	DC-3	Shunt motors: starting, plugging [a], inching [b], dynamic breaking of d.c. motors
	DC-5	Serie-motors: starting, plugging [a] inching [b], dynamic breaking of d.c. motors
NOTE - The switching of motor circuits, capacitors or tungsten filament lamps shall be subject to special agreement between manufacturer and user.		
[a] Plugging means stopping or reversing the motor rapidly by reversing motor primary connections while the motor is running.		
[b] Inching (jogging) means energizing a motor once or repeatedly for short periods to obtain small movements of the driven mechanism.		

The previous information is only advisory, it does not replace the specifications of the standard which will be consulted for its exact knowledge.

MAINTENANCE RECOMMENDATIONS:

Electrical installations and their components should be periodically inspected to check they are in good condition. Operability of switches should be checked after an incident, during maintenance or due to ageing.

Tightening torque of electrical connections should be revised as vibrations in the environment and electrical conductivity may loose them affecting to the performance and durability of all components as well.

Not performing preventive maintenance may damage and spoil parts, systems and machines. Moreover it can also cause accidents and to injure people.

Before working on equipment or components which may be electrically live, the appropriate safety cautions must be taken by operators, end-users or other staff. Right personal protective equipment (e.g. safety clothes, gloves, goggles, helmet, insulating footwear) should be used, and the appropriate tools for the operation. At the same time, caution measures should be taken to prevent damages to third parties such as warning signs, barriers, mechanical locks, etc.

Prior to use any protective equipment or tools, they must be checked to be in good condition.

Maintenance or repair works should be performed in areas not electrically live by qualified and authorized staff following the applicable regulations and good practices.

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telergon
gorlan team

Telergon, S.A.U.
Ctra. Castellón (Pol. La Cartuja)
ES-50720 La Cartuja Baja
Zaragoza / Spain

Tel.: + 34 976 50 08 76
Fax: + 34 976 50 03 14

E-mail: comercial@telergon.es
www.telergon.com