

Cam switches

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



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.

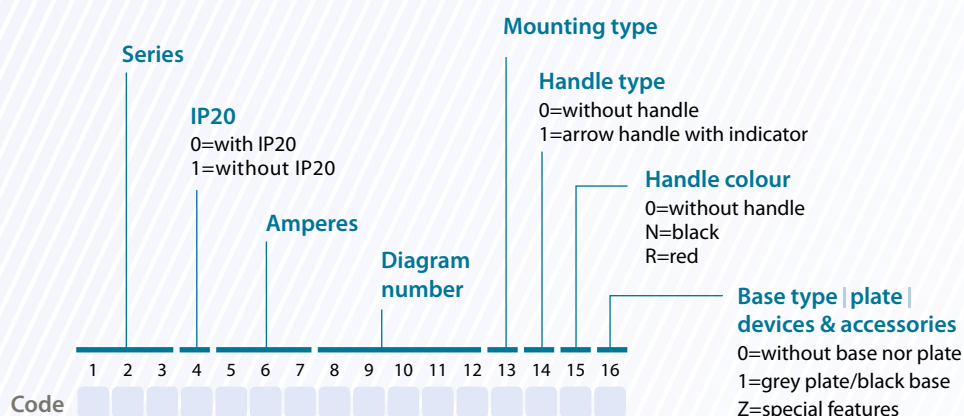
Range codification:

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 33).



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

According to:

IEC 60947-3



UL508 - CAN/CSA C22.2 N° 14

RoHS



Testing and approvals:

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



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.
- > Padlockable handle under request.

series | type T - TF | R



Serie T Serie TF
1 2 3 4 5 1 2 3 4 5
C I T R - C T F R - - - - -

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

series | type T - TB | A - C



Serie T Serie TB
1 2 3 4 5 1 2 3 4 5
C I T A - C T B A - - - - -
1 2 3 4 5 1 2 3 4 5
C I T C - C T B C - - - - -

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

>> Ask for more information about these applications with enclosure.

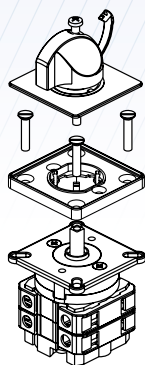
TP | T | TB | TF

series
T | TB | TF | TP

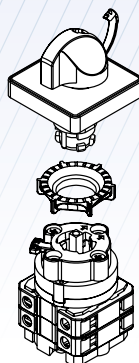
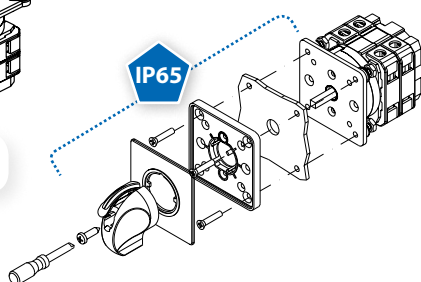
Fixing with screws | E type

For T - TB - TF - TP series

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



12 13 14
E

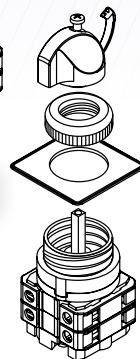


12 13 14
C

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

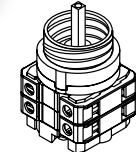


12 13 14
Z

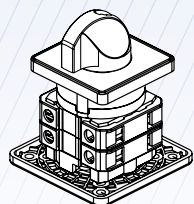
Central fixing with metal nut Ø 22 | Z type

For T - TF series

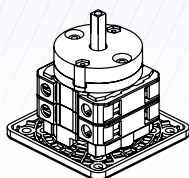
- Door mounting for metal nut Ø 22 mm available for sizes 0 and 1.
(also Ø 30 mm under request).



12 13 14
Z



12 13 14
D

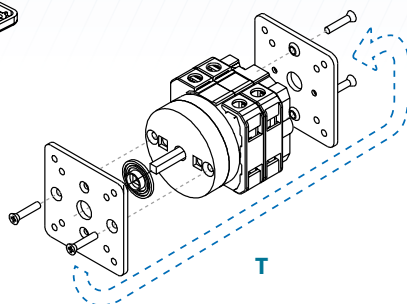


12 13 14
G

Base mounting by screws with direct handle | D type Base mounting by screws without plate nor handle | G type

For T series

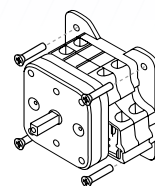
- Rear fixing plate for 4 screws, reversible mounting plate in T series (except T175 and size 3).



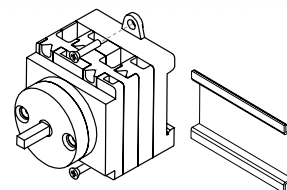
T

For TB - TF series

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



TB

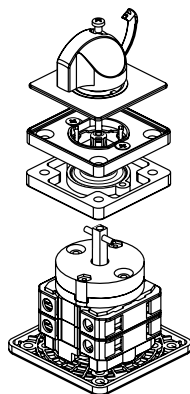


TF

Base mounting with clutch device and door handle | F type

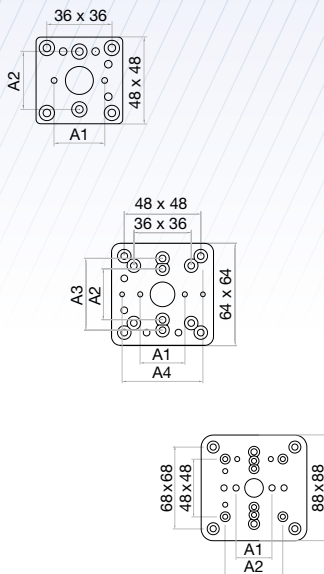
For T - TB - TF series

- 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.



12 13 14
F

Door mounting



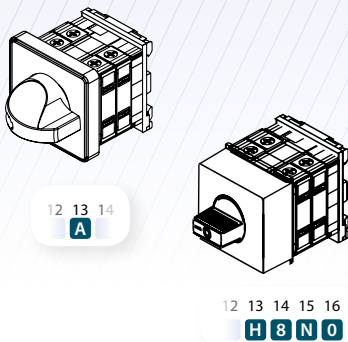
Size	Models		13
0	A1 = 28 mm	A2 = 32 mm	M
	A1 = 30 mm	A2 = 34 mm	N
	A1 = 35 mm	A2 = 38 mm	O
1	A1 = 28 mm A4 = 46 mm	A2 = 32 mm	M
	A1 = 33 mm A3 = 47 mm	A2 = 30 mm A4 = 50 mm	N
	A1 = 32 mm A3 = 45 mm	A2 = 32 mm A4 = 45 mm	P
	A1 = 38 mm	A3 = 40 mm	M
2	A1 = 30 mm	A2 = 50 mm	P

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

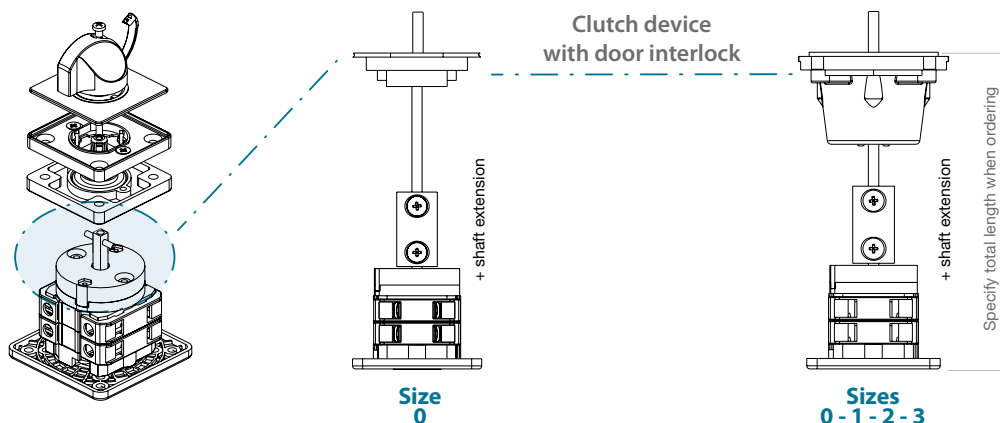
For T series

- > 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.



TP|T|TB|TF

Door mounting switch

1P up to 12P

Size 0

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



TP

T

TB

TF

Technical information



consult

consult

consult

consult

According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 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	4	4	4	6	6	6
AC rated operational current	Ie	Ue 415V AC13A	A	10	-	-	-	-	-	-	-
		Ue 415V AC21A	A	12	16	25	20	25	32	20	25
		Ue 415V AC22A	A	12	16	25	20	25	32	20	25
		Ue 415V AC23A	A	10	10	25	20	25	32	8	16
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 (according to the standards, for other values please consult)			1000	10000	10000	10000	10000	10000	10000	10000	10000
Rigid copper conductor		mm ²	2x4	2x4	2x4	1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10
Flexible copper conductor		mm ²	2x2,5	2x2,5	2x2,5	1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6
According to UL508 - CAN / CSA C22.2 N° 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 (°C): -5°...+40°. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frequency at AC utilization categories: 50/60 Hz.

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

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

Series | Amp

TP-00010

T-00012

T-00020

TB-00020

TB-00025

TB-00032

TF-00012

TF-00016

TF-00025

Diagram

Posit. 0 1	Poles	Chambers	Diagram
1	X	00010	1
2	X	00011	1
3	X	00012	2
4	X	00013	2
5	X	01075	3
6	X	01076	3
7	X	01077	4
8	X	01078	4
9	X	01079	5
10	X	01010	5
11	X	01011	6
12	X	01012	6

Type

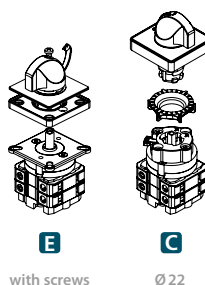
Model
or
fixing

Plate and handle



1N1



1RD

Arrow handle



6N1



6RD

Padlockable handle
"mini"

(E type only)



7N0



7R0

Padlockable handle

Dimensions (mm)

E

Frontal fixing
with 2 screws

TB

T- TF

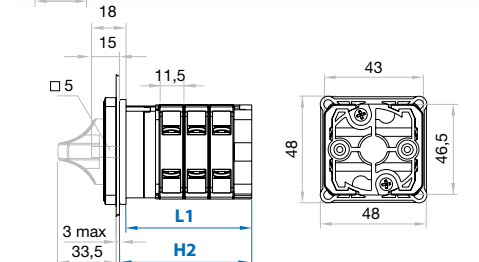
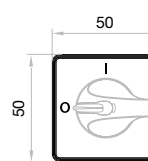
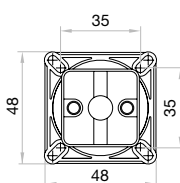
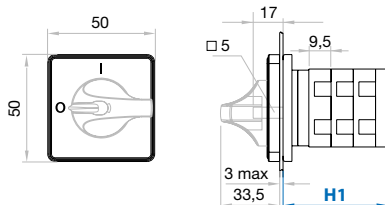
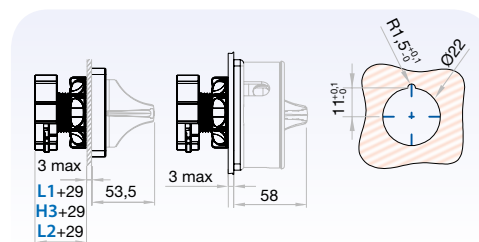
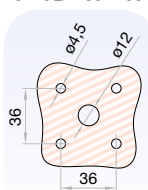
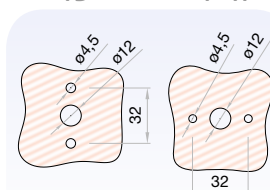
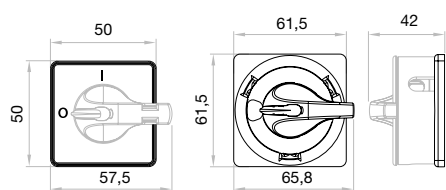
Frontal fixing
with 4 screws

T- TB- TF- TP

C

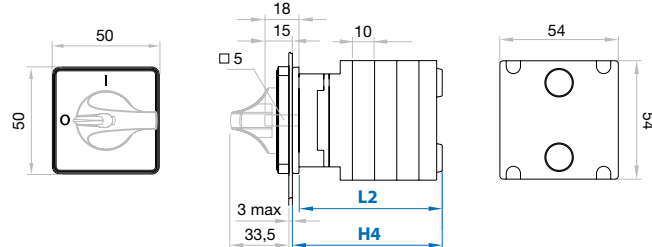
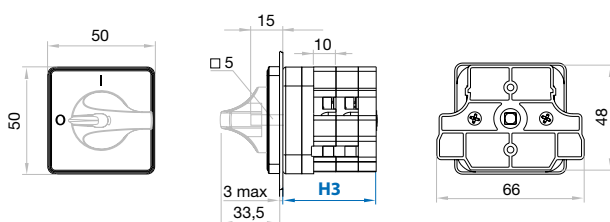
Frontal fixing
Ø22

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

T

Door mounting switch

1P up to 12P

Size 1

A 16|25|32|40



T

Technical information



consult

consult

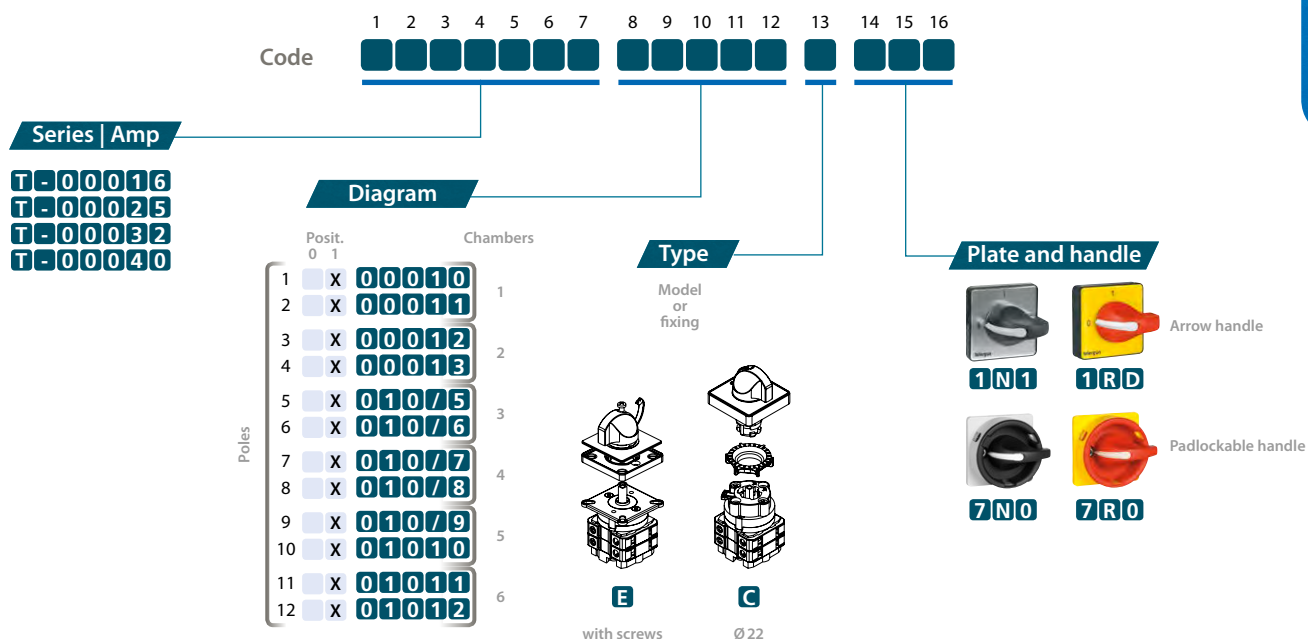
According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T16	T25	T32	T40
Rated thermal current	I _{th}	A	25	32	40	50
Rated insulation voltage	U _i	V	690	690	690	690
Rated impulse withstand voltage	U _{imp}	kV	6	6	8	8
AC rated operational current	I _e	Ue 415V AC21A	A	25	32	40
		Ue 415V AC22A	A	25	32	40
		Ue 415V AC23A	A	16	20	25
Rated conditional short-circuit current		kA	10	10	10	10
Rated maximum current	g _L -g _G	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	800	800
Mechanical durability (according to the standards, for other values please consult)			10000	10000	10000	10000
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 N° 14			T16	T25	T32	T40
Rated thermal current	I _{th}	A	16	25	32	40
General use rating		Vac	600	600	600	600
AC rated operational power	3x240V	HP	5	7,5	10	15
	3x480V	HP	10	15	20	25
	3x600V	HP	10	15	20	25

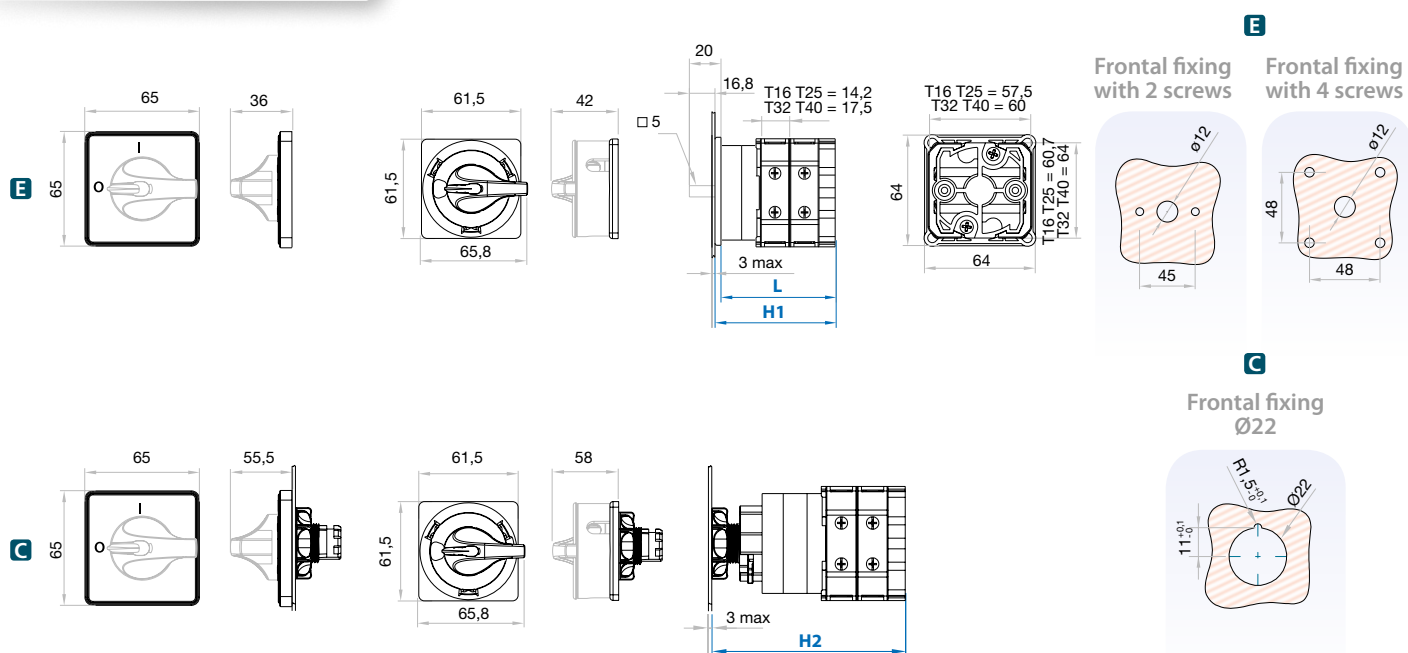
Normal service conditions:

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

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



Dimensions (mm)



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

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



consult

According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T50	T63	T80	T100	T125	T175
Rated thermal current	I _{th}	A	63	80	80	125	125	200
Rated insulation voltage	U _i	V	690	690	690	690	690	1000
Rated impulse withstand voltage	U _{imp}	kV	8	8	8	8	8	8
AC rated operational current	Ue 415V AC21A	A	63	80	80	125	125	200
	Ue 415V AC22A	A	63	80	80	115	115	200
	Ue 415V AC23A	A	63	63	63	100	100	200
Rated conditional short-circuit current		kA	15	15	15	15	15	15 ^{*(2)}
Rated maximum current	gI-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 (according to the standards, for other values please consult)			10000	10000	10000	8000	8000	8000
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 N° 14			T50	T63	T80	T100	T125	T175
Rated thermal current	I _{th}	A	63	63	63	100	100	200
General use rating		Vac	600	600	600	600	600	600
	3x240V	HP	20	20	20	30	30	25
	3x480V	HP	40	40	40	50	50	60
AC rated operational power	3x600V	HP	40	40	40	50	50	50

*⁽¹⁾ With terminals for connection

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

Normal service conditions:

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

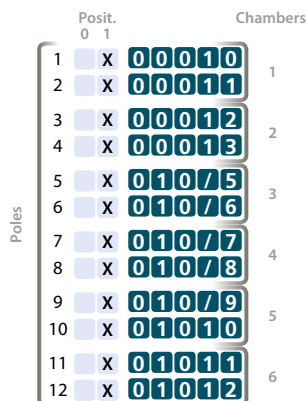
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

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

Series | Amp

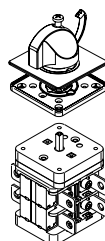
T-00050
T-00063
T-00080
T-00100
T-00125
T-00175

Diagram



Type

Model
or
fixing



E

Plate and handle



1N1



1RD

Arrow handle



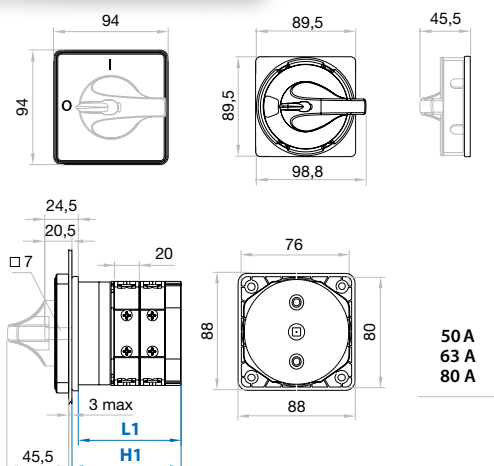
7N0



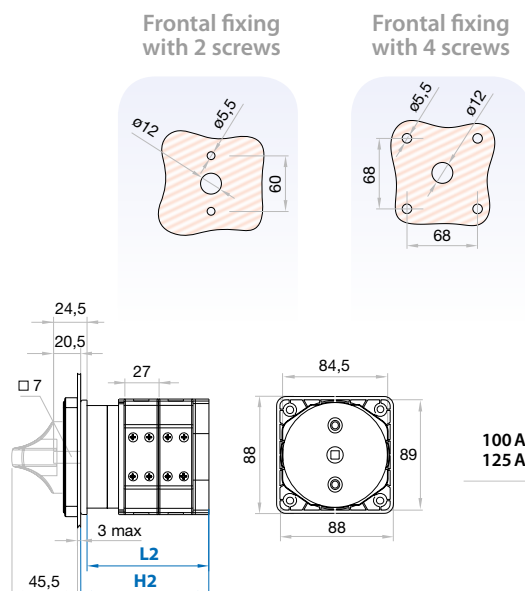
7R0

Padlockable handle

Dimensions (mm)

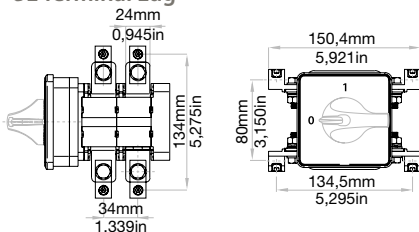


T series	Chambers	1	2	3	4	5	6
T50 T63 T80	L1	58,5	78,5	98,5	118,5	138,5	158,5
	H1	62,5	82,5	102,5	122,5	142,5	162,5

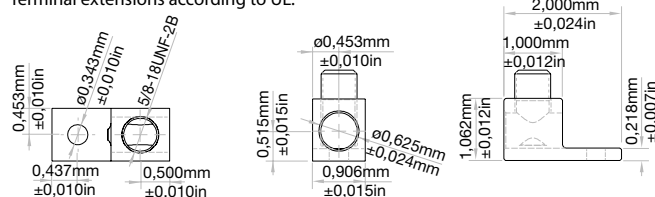


T series	Chambers	1	2	3	4	5	6
T100 T125	L2	67	94	121	148	175	202
	H2	71	98	125	152	179	206

UL Terminal Lug

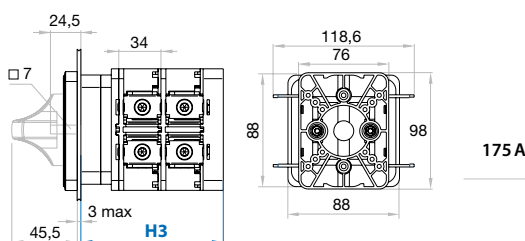


Terminal extensions according to UL.



Wire size	Wires per lug	Wire type	Kit reference
120 mm ² / 250 kcmil	1	Cu	DS-TLU21 (2 pieces)

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



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 this series; accessories see pages 24-31 | diagrams see pages 32-43

T

Door mounting switch

1P up to 12P

Size 3

200|250|315



* Under request also available
in 400A, 500A, 630A, 800A,
consult please



T

Technical information



According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T200	T250	T315
Rated thermal current	I _{th}	A	200	250	315
Rated insulation voltage	U _i	V	690	690	690
Rated impulse withstand voltage	U _{imp}	kV	8	8	8
AC rated operational current	I _e	Ue 415V AC21A	200	250	315
		Ue 415V AC22A	200	250	315
		Ue 415V AC23A	200	200	200
Rated conditional short-circuit current		kA	15	15	15
Rated maximum current	g _L -g _G	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 (according to the standards, for other values please consult)			8000	8000	8000
Rigid copper conductor		mm ²	95	120	185
Flexible copper conductor		mm ²	95	120	185
According to UL508 - CAN / CSA C22.2 N° 14			T200	T250	T315
Rated thermal current	I _{th}	A	200	200	200
General use rating		Vac	600	600	600
	3x240V	HP	60	60	60
	3x480V	HP	75	75	75
AC rated operational power		HP	60	60	60
	3x600V	HP	60	60	60

Normal service conditions:

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

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

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

Series | Amp

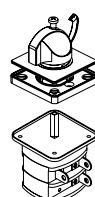
T-00200
T-00250
T-00315

Diagram

Posit.	0 1	Chambers											
		1	2	3	4	5	6	7	8	9	10	11	12
1	X	00010											
2	X	00011											
3	X	00012											
4	X	00013											
5	X	01075											
6	X	01076											
7	X	01077											
8	X	01078											
9	X	01079											
10	X	01010											
11	X	01011											
12	X	01012											

Type

Model
or
fixing



E

Plate and handle



Arrow handle
(from 1 to 4 poles)

1N1

1RD



Simple handle
(from 5 to 9 poles)

AN1

ARD



Double handle
(from 10 to 12 poles)

BN1

BRD



Padlockable handle
(from 1 to 9 poles)

NN1

NRD

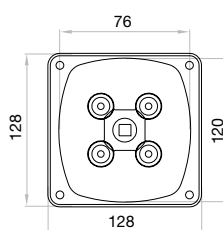
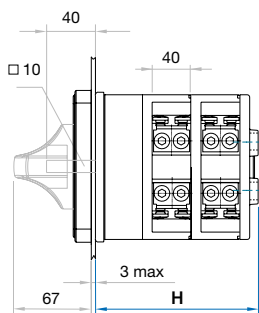
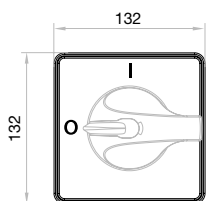
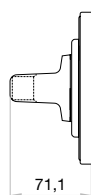
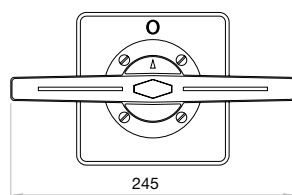
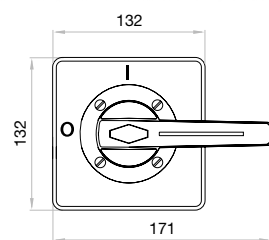
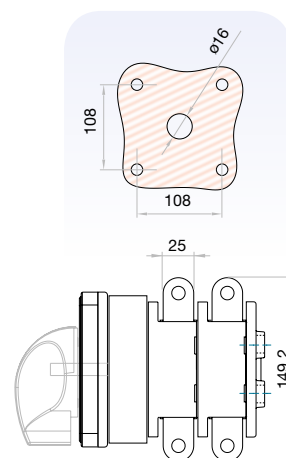


Padlockable handle
(from 10 to 12 poles)

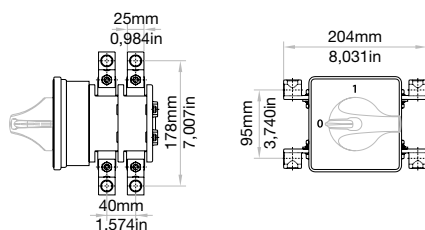
ON1

ORD

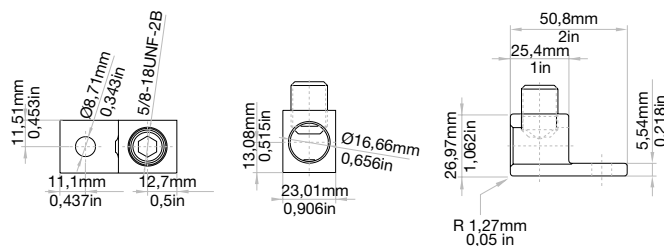
Dimensions (mm)

Frontal fixing
with 4 screws

UL Terminal Lug



Terminal extensions according to UL.



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.

TP | T | TB | TF

Door mounting changeover

1P up to 4P

Size 0

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



TP



T



TB



TF

Technical information



consult

consult

consult

consult

According to IEC 60947-3

UL508 - CAN/CSA C22.2 N° 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	4	4	4	6	6	6	
AC rated operational current	Ie	Ue 415V AC13A	A	10	-	-	-	-	-	-	-	
		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	10	25	20	25	32	8	16	20
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 (according to the standards, for other values please consult)			1000	10000	10000	10000	10000	10000	10000	10000	10000	
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 N° 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 (°C): -5°...+40°. Maximum altitude: 2.000 m. Maximum humidity: 90%. Pollution degree: 3 (standard for industrial applications). Rated frequency at AC utilization categories: 50/60 Hz.

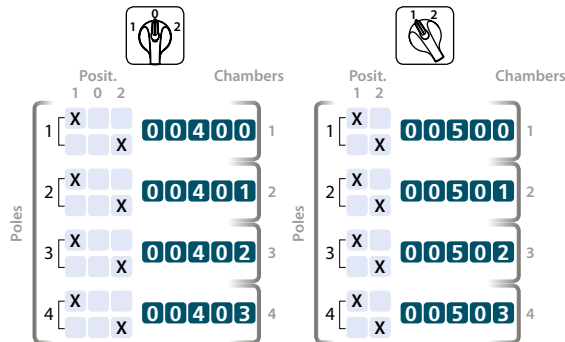
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

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

Series | Amp

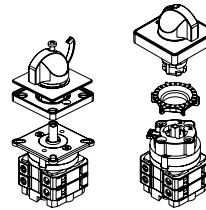
TP-0010
T-00012
T-00020
TB-0020
TB-0025
TB-0032
TF-0012
TF-0016
TF-0025

Diagram



Type

Model or fixing



E

with screws

C

Ø22

Plate and handle



Arrow handle



Padlockable handle "mini"

6N1
(E type only)

Padlockable handle open view

CN0

For red/yellow handle, please consult

Dimensions (mm)

E

Frontal fixing
with 2 screws

TB

T- TF

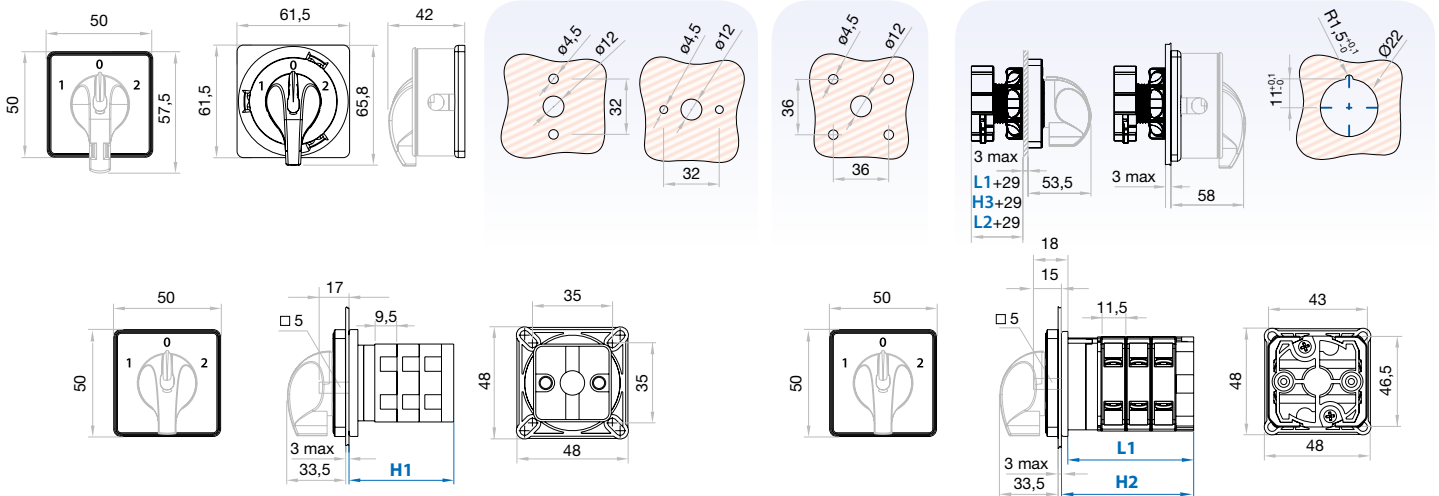
Frontal fixing
with 4 screws

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

T

Door mounting changeover

1P up to 4P

Size 1

A 16|25|32|40



T

Technical information



consult

consult

consult

consult

According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T16	T25	T32	T40
Rated thermal current	I _{th}	A	25	32	40	50
Rated insulation voltage	U _i	V	690	690	690	690
Rated impulse withstand voltage	U _{imp}	kV	6	6	8	8
AC rated operational current	I _e	Ue 415V AC21A	A	25	32	40
		Ue 415V AC22A	A	25	32	40
		Ue 415V AC23A	A	16	20	25
Rated conditional short-circuit current		kA	10	10	10	10
Rated maximum current	g _L -g _G	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	800	800
Mechanical durability (according to the standards, for other values please consult)			10000	10000	10000	10000
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 N° 14			T16	T25	T32	T40
Rated thermal current	I _{th}	A	16	25	32	40
General use rating		Vac	600	600	600	600
AC rated operational power	3x240V	HP	5	7,5	10	15
	3x480V	HP	10	15	20	25
	3x600V	HP	10	15	20	25

Normal service conditions:

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

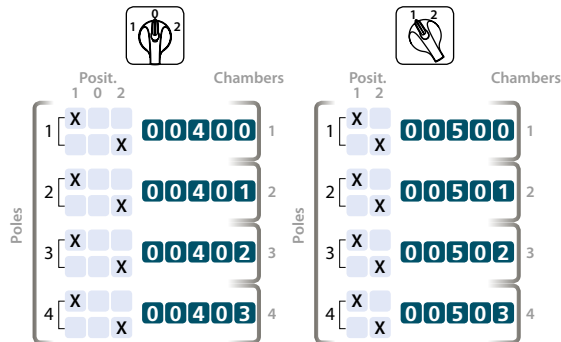
Rated duties at utilization categories AC21A, AC22A and AC23A: Continuing (8 hours); uninterrupted.

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

Series | Amp

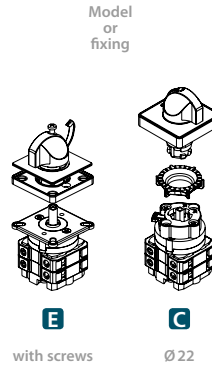
T-00016
T-00025
T-00032
T-00040

Diagram



Type

Plate and handle



Arrow handle

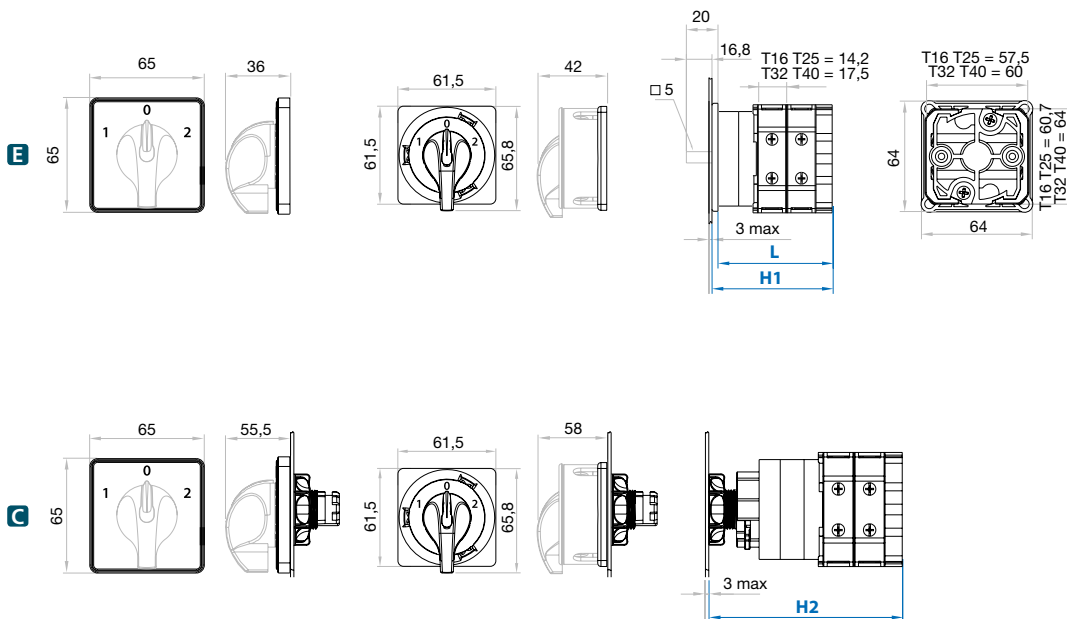
1N1

Padlockable handle
open view

CN0

For red/yellow handle,
please consult

Dimensions (mm)



E

Frontal fixing
with 2 screwsFrontal fixing
with 4 screws

C

Frontal fixing
Ø22

T series

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

T

Door mounting changeover

1P up to 4P

Size 2

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



* Except T175



T

Technical information



According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T50	T63	T80	T100	T125	T175
Rated thermal current	I _{th}	A	63	80	80	125	125	200
Rated insulation voltage	U _i	V	690	690	690	690	690	1000
Rated impulse withstand voltage	U _{imp}	kV	8	8	8	8	8	8
AC rated operational current	U _e 415V AC21A	A	63	80	80	125	125	200
	U _e 415V AC22A	A	63	80	80	115	115	200
	U _e 415V AC23A	A	63	63	63	100	100	200
Rated conditional short-circuit current		kA	15	15	15	15	15	15 ^{*(2)}
Rated maximum current	g _L -g _G	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 (according to the standards, for other values please consult)			10000	10000	10000	8000	8000	8000
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 N° 14			T50	T63	T80	T100	T125	T175
Rated thermal current	I _{th}	A	63	63	63	100	100	200
General use rating		Vac	600	600	600	600	600	600
	3x240V	HP	20	20	20	30	30	25
	3x480V	HP	40	40	40	50	50	60
AC rated operational power	3x600V	HP	40	40	40	50	50	50

*⁽¹⁾ With terminals for connection

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

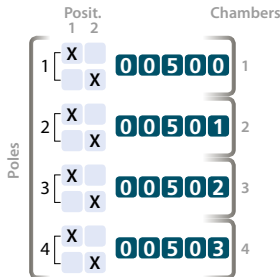
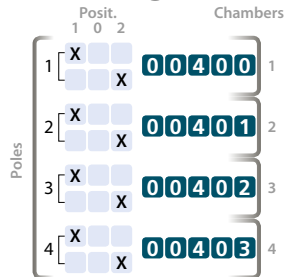
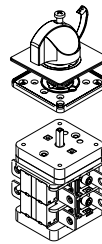
Normal service conditions:

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

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



T	-	0	0	0	5	0
T	-	0	0	0	6	3
T	-	0	0	0	8	0
T	-	0	0	1	0	0
T	-	0	0	1	2	5
T	-	0	0	1	7	5

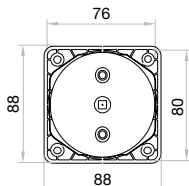
Mode
or
fixing

1 N 1



For red/yellow handle,
please consult

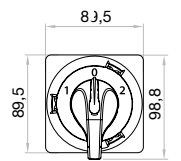
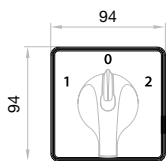
Technical drawing of a 1/2 inch NPT female fitting. The drawing shows a side view and a cross-section. Dimensions are provided in millimeters: overall length 45,5; thread length 20,5; total width 24,5; thread outer diameter 20; and a maximum depth of 3. The cross-section shows a 7mm hole and a 1/2 inch NPT thread.



50 A
63 A
80 A

T50 T63 T80

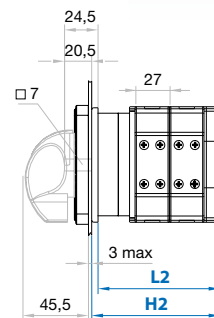
T series		Chambers	1	2	3	4
T50 T63 T80	L1	58,5	78,5	98,5	118,5	
	H1	62,5	82,5	102,5	122,5	

[illegible]

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

Technical drawing of a mechanical part with dimensions: outer diameter 12, inner hole diameter 5.5, and a width of 60.

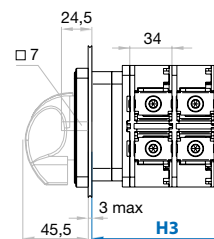
Technical drawing of a mechanical part with dimensions: 68, 33, 5.5, and 1/2.



100 A
125 A

T100 T125

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



175 A

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

T

Door mounting changeover

1P up to 4P

Size 3

A* 200|250|315



* Under request also available
in 400A, 500A, 630A, 800A,
consult please



T

Technical information



According to IEC 60947-3
UL508 - CAN/CSA C22.2 N° 14

According to IEC 60947-3			T200	T250	T315
Rated thermal current	I _{th}	A	200	250	315
Rated insulation voltage	U _i	V	690	690	690
Rated impulse withstand voltage	U _{imp}	kV	8	8	8
AC rated operational current	I _e	Ue 415V AC21A	200	250	315
		Ue 415V AC22A	200	250	315
		Ue 415V AC23A	200	200	200
Rated conditional short-circuit current		kA	15	15	15
Rated maximum current	gI-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 (according to the standards, for other values please consult)			8000	8000	8000
Rigid copper conductor		mm ²	95	120	185
Flexible copper conductor		mm ²	95	120	185
According to UL508 - CAN / CSA C22.2 N° 14			T200	T250	T315
Rated thermal current	I _{th}	A	200	200	200
General use rating		Vac	600	600	600
	3x240V	HP	60	60	60
	3x480V	HP	75	75	75
AC rated operational power		HP	60	60	60
	3x600V	HP	60	60	60

Normal service conditions:

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

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



14 15 16
D100 4



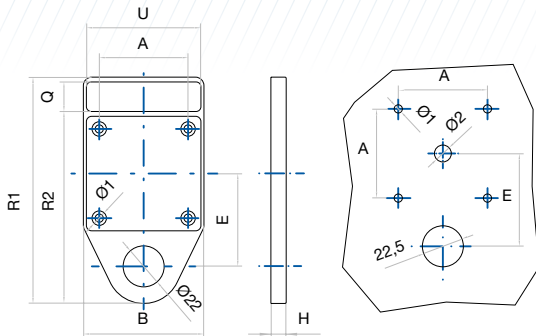
Light with white neon lamp
D100

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 columns
D201 with three columns

13 14 15 16
D301 G

13 14 15 16
D300 F



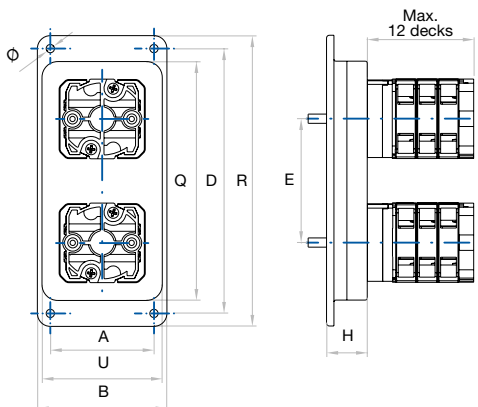
Blocking operation*
D300 with two columns
D301 with three columns

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.

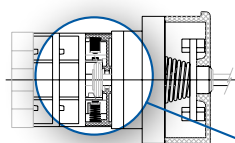
D300-301 For switching up to 29 positions with two handles and two columns, or 36 positions with three handles and three columns according to the electrical diagram.

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										Tandem	Blocking
	A	B	D	R	U	Q	E	H	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	139	19	25		

13 14 15 16
H

Push to turn D401*



Before operating the handle must be pressed to unlock, simultaneously an auxiliary contact 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
3

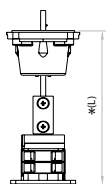
Dual voltage locking device D420



The screw position, at left or at 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



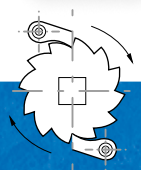
To extend the shaft length to the depth required.

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
	5	500		DT-EPR12
	2	200	T50-T63	DT-EPR21
	7	500	T100-T175	DT-EPR22
Only incorporated in the cam switch	3	upon request	T200	-

*(L) Specify total length when ordering

One way rotation D405



This device allows to rotate the handle just in 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



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	D501 + 704 90°	0 T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-75401N07
			DT-75401R01
②	90°	0 T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-50102
			DT-50101
			DT-50121
			DT-50131
			DT-50104
	60°	2 T50-T63-T100-T175	DT-50124
			DT-50134
			DT-50103
	45°	2 T50-T63-T100-T175	DT-50123
			DT-50133
			DT-50103
Incorporated in the cam switch	D501 + 704 90°	0 T12-T20 TB20-TB25-TB32 TF12-TF16-TF25	DT-50102
			DT-50101

12 13 14 15 16
F

Coaxial coupling D600



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

Key handle device D701



D701 Supplied as standard with $\varnothing 22\text{mm}$ fixing; $\varnothing 30\text{ mm}$ 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° .

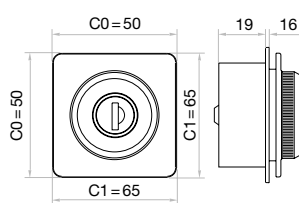
Assembly limitation:
4 contacts actuating simultaneously.

Key handle device D711

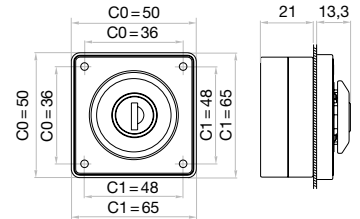


Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40

D701



D711



Key lock device D702

D702 14 15 16 6



Key lock device with inscription plate D703

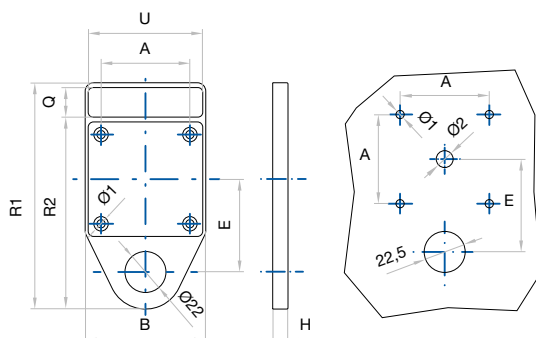
D703 14 15 16 7



D702 The key lock 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

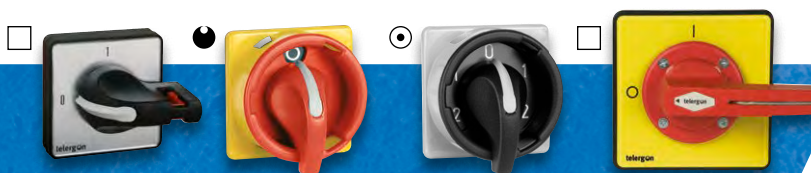


* Auxiliary contacts 1NO + 1NC

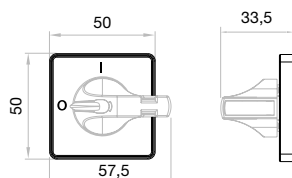


Series	B	R1	R2	H	E	U	Q	A	Ø1	Ø2
T12 T20 T16 T25 T32 T40 TB20 TB32 TF12 TF25	65	123	102	6,5	50	61	16	48	4,5	9
T50 T63 T100 T175	94	160	137	7,5	70	90	19	68	5,5	12
T200 T800	132	198	173	10	85	126	21	108	6,5	16

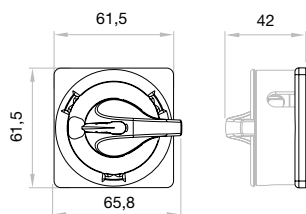
Padlockable handle D704



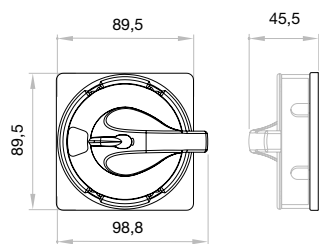
- Allows the blockade of the handle in OFF position using padlock.
- Available in red colour on yellow background ¹⁵R or black colour on grey background ¹⁵N
- According to the machinery directive and the european standards, red & yellow handles ¹⁵R are intended to be used only in ON-OFF safety switches.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



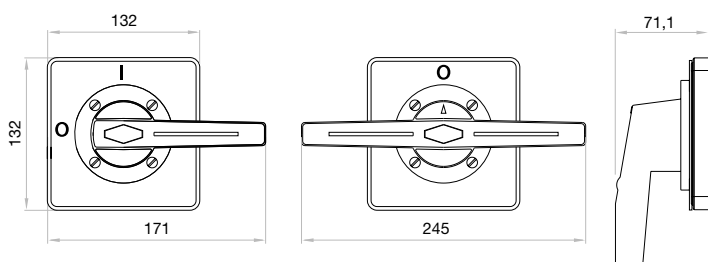
Size 0



Size 0-1



Size 2



Size 3

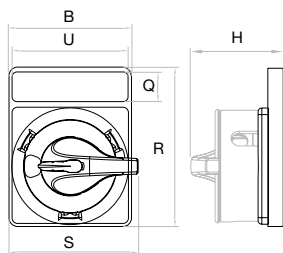
	Supply	Size	For series	Code
Square plate	Spare	0	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 TP10	DT-70401N07
	Incorporated in the cam switch			DT-70401R01*
				13 14 15 16 6 N 1
				13 14 15 16 6 R D
Closed view	Spare	0 - 1	T12-T20 TB20-TB25-TB32 TF12-TF16-TF25 T16-T25-T32-T40	DT-7041CN02
	Incorporated in the cam switch			DT-7041CR02
				13 14 15 16 7 N 0
				13 14 15 16 7 R 0
Open view	Spare	2	T50-T63 T100-T175	DT-7041AN02
	Incorporated in the cam switch			DT-7041AR02
				13 14 15 16 C N 0
				13 14 15 16 C R 0
Closed view	Spare	3	T200	DT-7042CN02
	Incorporated in the cam switch			DT-7042CR02
				13 14 15 16 7 N 0
				13 14 15 16 7 R 0
Open view	Spare	3	T200	DT-7042AN02
	Incorporated in the cam switch			DT-7042AR02
				13 14 15 16 C N 0
				13 14 15 16 C R 0
Square plate (single handle)	Spare	3	T200	DT-70431
	Incorporated in the cam switch			DT-70433*
				13 14 15 16 N N 1
				13 14 15 16 N R D
Square plate (double handle)	Spare	3	T200	DT-70432
	Incorporated in the cam switch			DT-70434*
				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 ¹⁵R or black colour on grey background ¹⁵N
- Inscription plate included with text as requested.
- According to the machinery directive and the european standards, red & yellow handles ¹⁵R are intended to be used only in ON-OFF safety switches.
- For switches O-I specify version ¹⁵R or ¹⁵N, for the rest will be supplied ¹⁵N version (padlocks not included).



Size	B	H	Q	R	S	U
0-1	65	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

	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	Only incorporated in the cam switch			¹³ ¹⁴ ¹⁵ ¹⁶ C N 2
				¹³ ¹⁴ ¹⁵ ¹⁶ C R 2
Closed view	Only incorporated in the cam switch	2	T50-T63 T100-T175	¹³ ¹⁴ ¹⁵ ¹⁶ 7 N 2
				¹³ ¹⁴ ¹⁵ ¹⁶ 7 R 2
Open view	Only incorporated in the cam switch			¹³ ¹⁴ ¹⁵ ¹⁶ C N 2
				¹³ ¹⁴ ¹⁵ ¹⁶ C R 2
Square plate (single handle)	Only incorporated in the cam switch			¹³ ¹⁴ ¹⁵ ¹⁶ N N 2
				¹³ ¹⁴ ¹⁵ ¹⁶ N R 2
Square plate (double handle)	Only incorporated in the cam switch	3	T200	¹³ ¹⁴ ¹⁵ ¹⁶ O N 2
				¹³ ¹⁴ ¹⁵ ¹⁶ O R 2

¹⁴ ¹⁵ ¹⁶
D708 8



Push button blocking system D708

¹⁴ ¹⁵ ¹⁶
D709 9



Push button blocking system with inscription plate D709

D708 Available in two versions (specify when ordering):

- The handle is blocked in all positions.
- The handle is blocked only in OFF position.

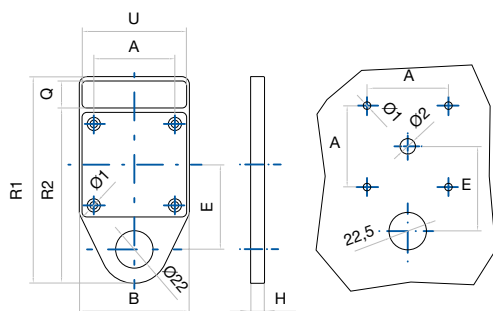
The switch in version 2 can be used for emergency operation since the handle is not blocked in ON position.

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.

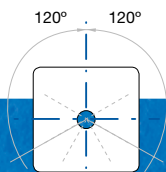
Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20-TB20-TB25 TB32-TF12-TF16-TF25 T16-T25-T32-T40
	2	T50-T63-T100-T175
	3	T200

* 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

Return from one or two ways up to 120° D802

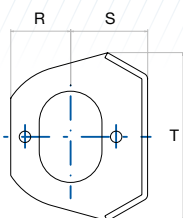
13 14 15 16
K

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).

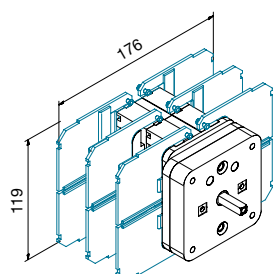


Series	R	S	S
T12 T20	21	27	59
T16 T25 T32 T40	28	34	72
T50 T63 T100	15	52	104
T200	40	155	130

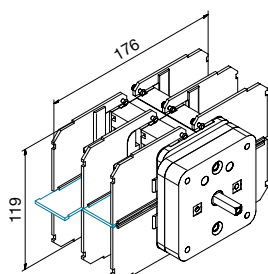
Supply	Size	For series	Code
Spare	0	T12-T20	DT-90002
	1	T16-T25-T32-T40	DT-90012
	2	T50-T63	DT-90022
		T100	DT-90024
	3*	T200	DT-90031
		T400	DT-90032

* Max. 2 chambers

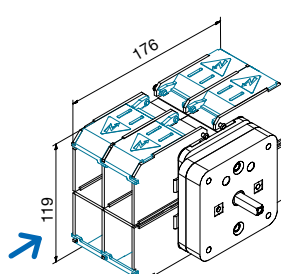
T175 terminal shrouds and phase barriers D900



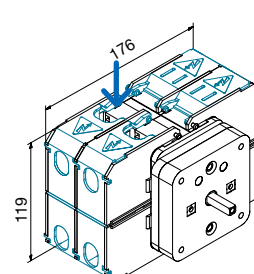
Phase barriers - Vertical
Code DT-90025 (4 units)



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



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



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

DIN rail mounting device D904

12 13 14 15 16
A

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 O

Handles (plastic)

13 14 15 16
1 N

13 14 15 16
1 R

13 14 15 16
2 N

13 14 15 16
2 R

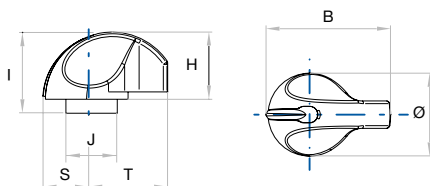
13 14 15 16
B N

13 14 15 16
B R


- 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.

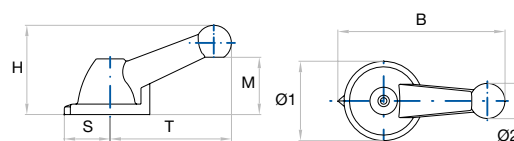
	Supply	Size	Code
Arrow handle with indicator	Spare or incorporated in the cam switch	0	40110030
			40110031
		1	40111034
			40111035
		2	40112028
			40112029
Ball lever	Spare or incorporated in the cam switch	1	40111002
			40111003
		3	40113002
			40113001
Double handle	Spare or incorporated in the cam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

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



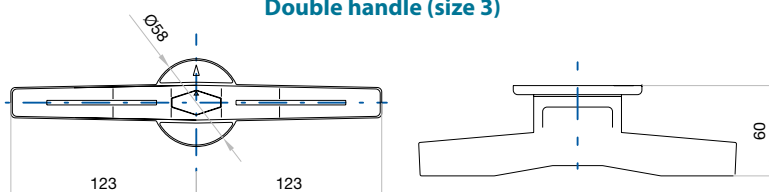
Size	B	H	I	J	S	T	Ø
0	39,3	26,8	30,5	14,5	13,5	24	27
1	50	28	33	14,5	18	32	36
2	66,5	36,5	-	-	22,5	44	45
3	100	54	-	-	38	62	76

Ball lever (sizes 1 - 3)

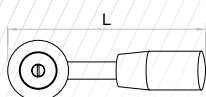
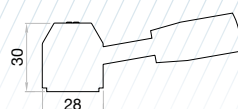


Size	B	H	S	T	M	Ø1	Ø2
1	89	48	24	65	32,5	37	18
3	151,5	81	41,5	110	52	72	32

Double handle (size 3)



Handles (metal & plastic)



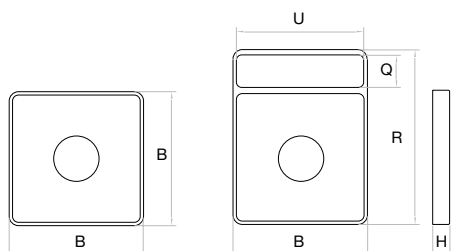
	Supply	Size	Code
Metal lever & plastic	Spare or incorporated in the cam switch	L=90mm	9-KN100146
		L=108mm	9-KN100145



13 14 15 16

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

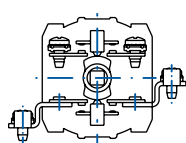
Size	B	R	H	U	Q
0	50	65	6,5	47	11
1	65	85	6,5	61	16
2	94	117	7	90	19
3	132	157	10	126	21



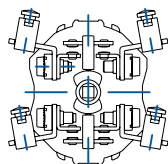
	Supply	Size	Code		
PPA (neutral plate)	Spare or incorporated in the cam switch	0	40140045	40140061	40110028
		1	40141039	40141053	40111032
		2	40142020	40142028	40142025
		3	40143020	40143028	40143084
PRA (neutral plate)	Spare or incorporated in the cam switch	Size	Code		
		0	40140203		40110029
		1	40141188		40111033
		2	40142095		40112026
		3	40143088		40143086

Terminal extensions CP

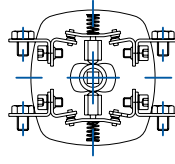
Supply	Size	For series
Only incorporated in the cam switch	0	T12-T20
	1	T16-T25-T32-T40
	2	T50-T63-T100



T12-T16-T20-T25



T32-T40-T63-T100

T200
standard
connection as per
drawing

Fast-on terminals 6,25 x 0,8

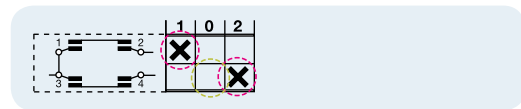


Supply	Size	For series
Only incorporated in the cam switch	0-1	T12-T20 T16-T25-T32-T40

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.

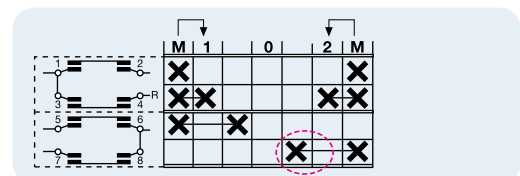


It represents "closed contact".

It represents "opened contact".

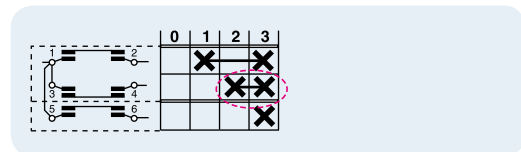
The contact 1/2 is closed in position 1 and opened in positions 0 & 2.

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



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.

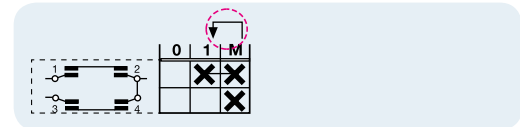


It represents closed contact "without interruption".

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

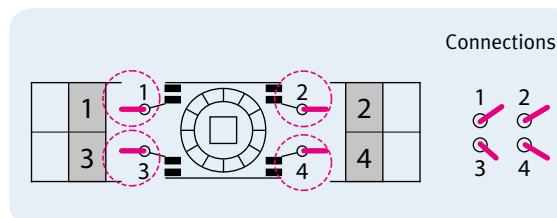
The contact 3/4 closes in position 2 and remains closed in position 3.

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

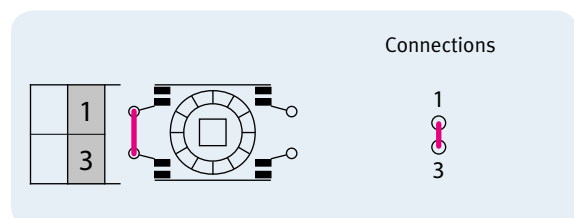


It represent "spring return" to previous position.

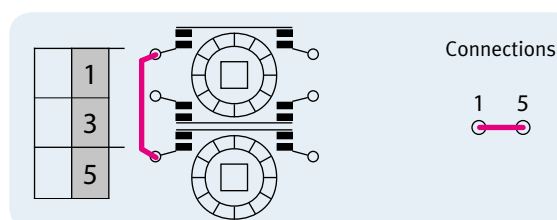
The M position is not fixed and it will return to position 1 when the handle is released.



Connection point.



Vertical bridging link.



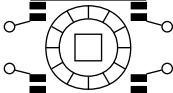
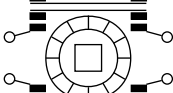
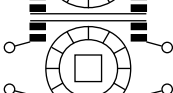
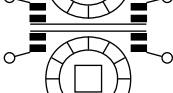
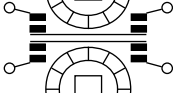
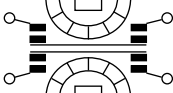
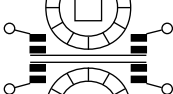
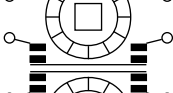
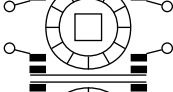
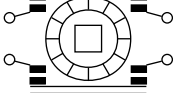
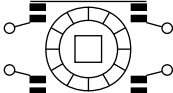
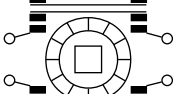
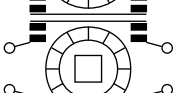
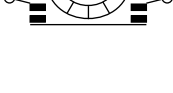
Horizontal bridging link.

telergon
gorlan

Open contact	Contact closed	✗
Closed contact without interruption		✗✗
Late break contact		✗—
Early-make contact		—✗
Return from 30°		↓

Rev.

Connections

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

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

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

20	25	32	40
----	----	----	----

12	16	25	32	40
----	----	----	----	----

10

E	C	Z	D	G	H	F
---	---	---	---	---	---	---

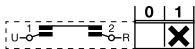
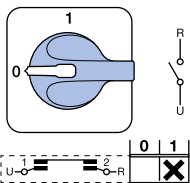
Indicator arrow	Black	mm
Ball lever handle	Red	
Double handle		
Key		

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

[illegible]

33 ◀

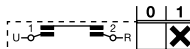
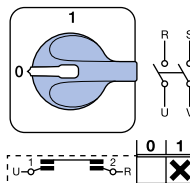
On-Off switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00010

010
1 pole
1 chamber

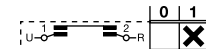
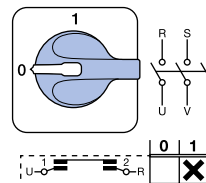
010/5 5 poles
010/6 6 poles
010/7 7 poles
010/8 8 poles
010/9 9 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00011

011
2 poles
1 chamber

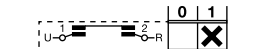
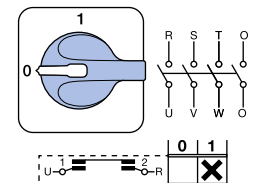
010/10 10 poles
010/11 11 poles
010/12 12 poles
010/13 13 poles
010/14 14 poles



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00012

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



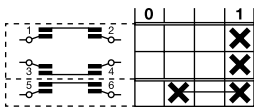
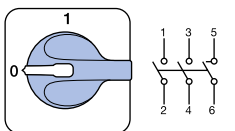
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00013

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

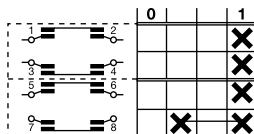
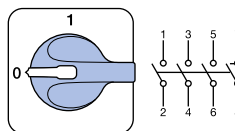
To view these wiring diagrams please visit our download area on www.telergon.com

On-Off switches with contacts leading when making



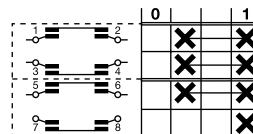
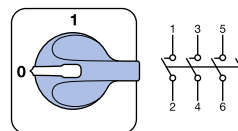
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00020

020
3 poles 1 preclosed pole
2 chambers



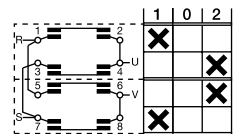
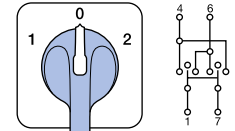
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00021

021
4 poles 1 preclosed pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00022

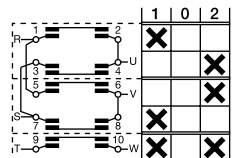
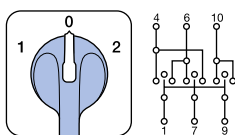
022
4 poles 3 preclosed poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00101

101
2 poles
2 chambers

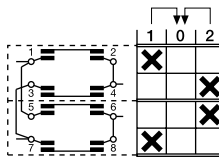
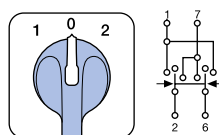
Reversing switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00102

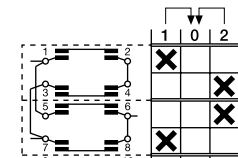
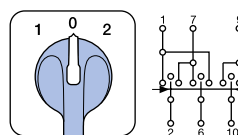
102
3 poles
3 chambers

Reversing switches with spring return



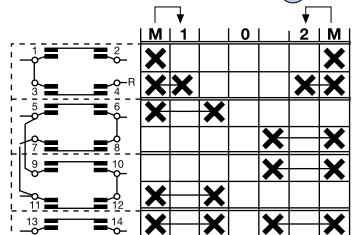
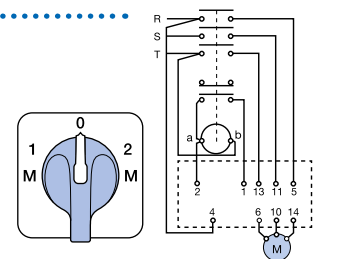
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00111

111
2 poles
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00112

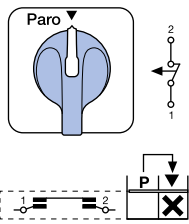
112
3 poles
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00113

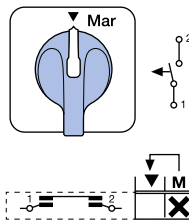
113
3 poles for use with reserving
contactors
4 chambers

Control switches with spring return



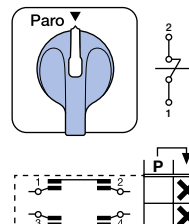
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00201

201
Start switch 1 pole
1 chamber



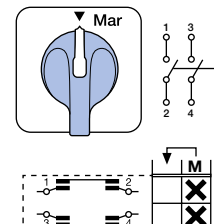
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00202

202
Stop switch 1 pole
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00203

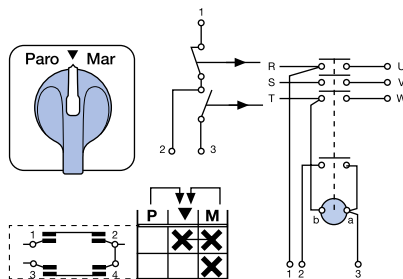
203
Start switch 2 poles
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00204

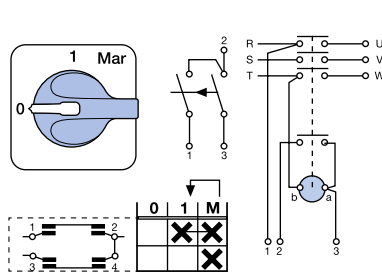
204
Stop switch 2 poles
1 chamber

Stop-Start switches



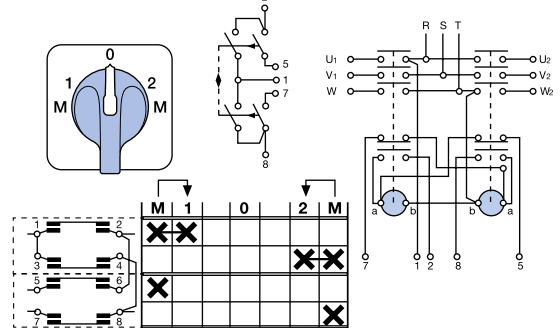
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00205

205
With contactor
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00206

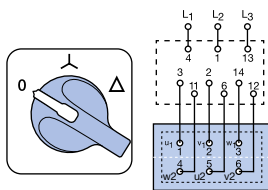
206
With contactor and spring return
1 chamber



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00207

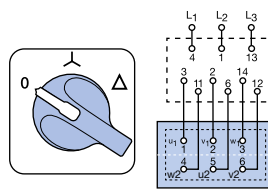
207
With spring return to run for 2 units
2 chambers

Star delta switches



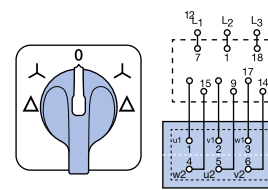
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00300

300
Normal type
4 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00301

301
Auxiliary contact closed in "0"
5 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00302

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

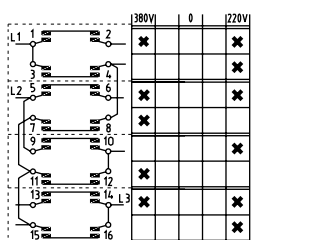
305
Reversing. Return from λ to 0
Δ - λ - 0 - λ - Δ
5 chambers

308
Use with contactor
0 - λ - Δ
4 chambers

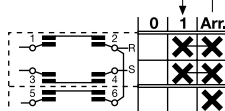
309
Reversing for use with contactor
Δ - λ - 0 - λ - Δ
7 chambers

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

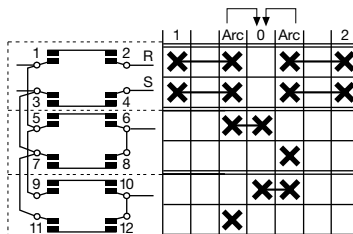
Split phase starting switches



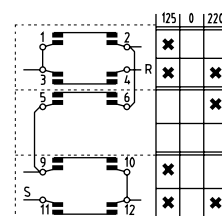
310
Selector $\lambda - \Delta$
380 - 0 - 220
4 chambers



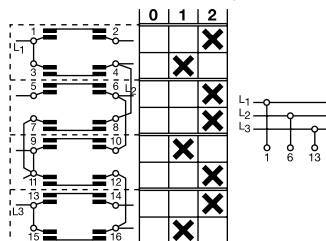
315
Start return to 1
2 chambers



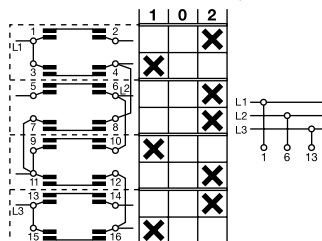
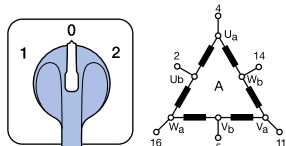
316
Reversing type of T315
1 - ARR - 0 - ARR - 2
3 chambers



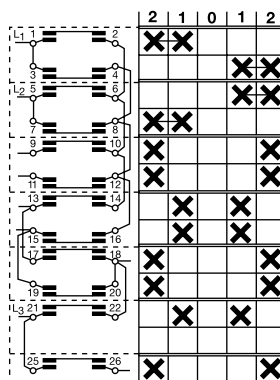
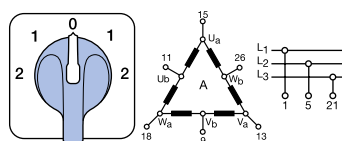
317
Start single phase 2 voltages
3 chambers



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



331
Dahlander $\Delta_A - 0 - \lambda \lambda_A$
4 chambers



332
Reversing type of T330
7 chambers

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

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

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

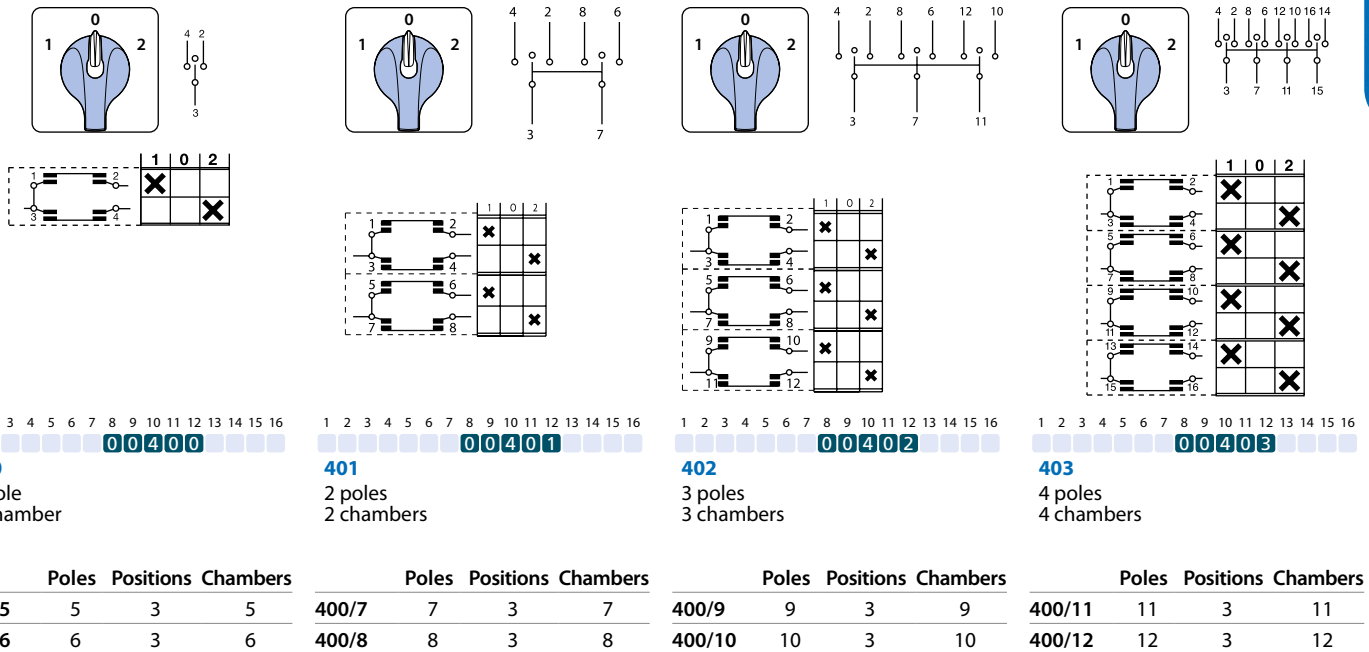
341
 $0 - \Delta_A - \lambda_B$
 $0 - 1 - 2$
 4 chambers

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

6 chambers

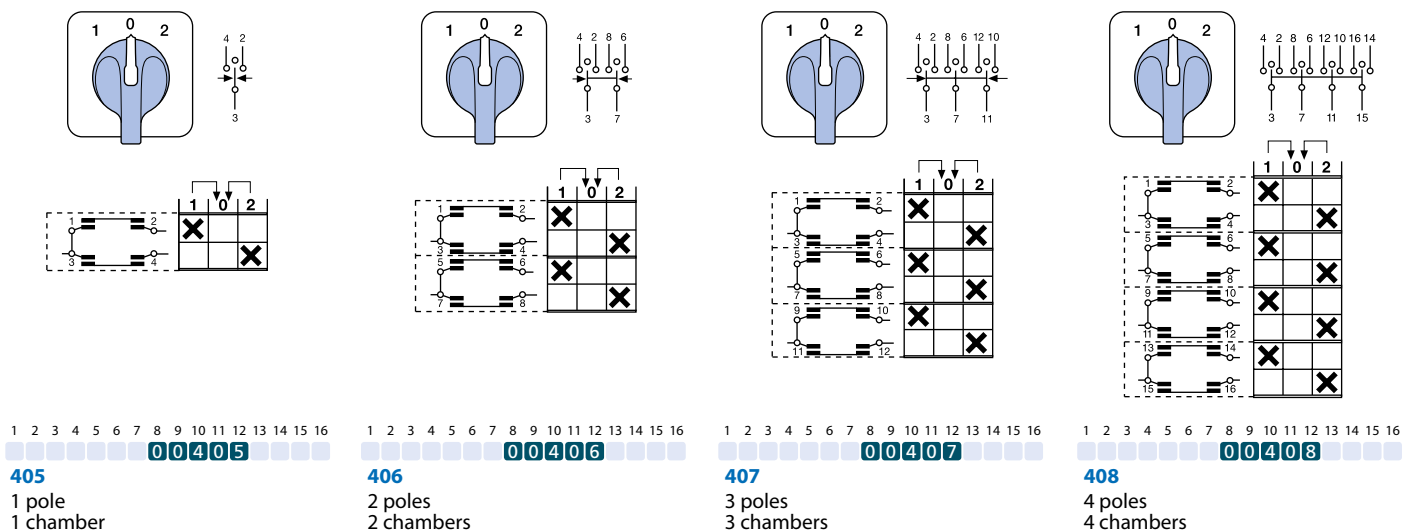
▶ 36

Changeover switches with center "Off"

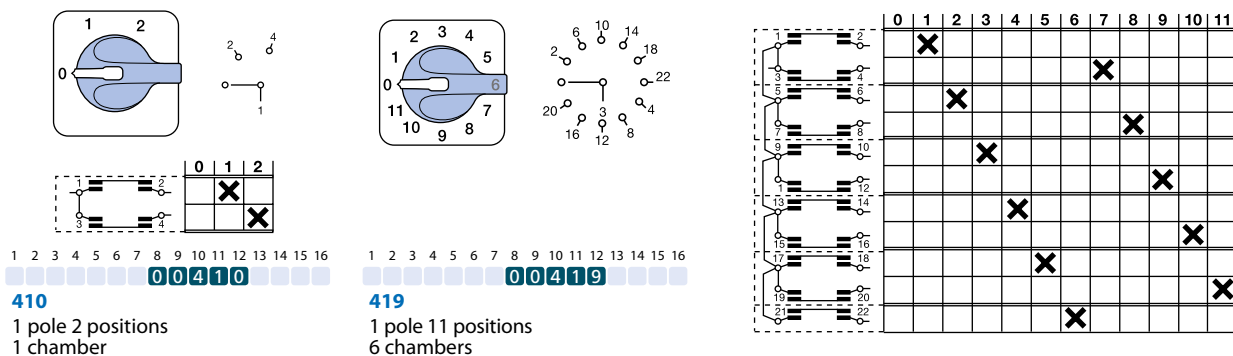


To view these wiring diagrams please visit our download area on www.telergon.com

Changeover switches with spring return to center



Multi-step switches with "Off" position

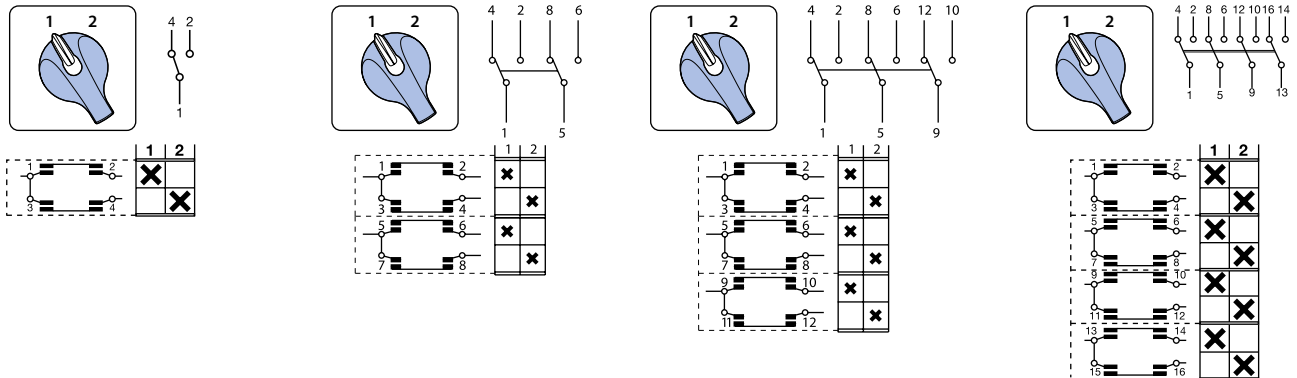


Multi-step switches with "Off" position

	Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers
411	1	3	2	422	2	4	4	432	3	4	6	452	5	4	10
412	1	4	2	423	2	5	5	433	3	5	9	460	6	2	6
413	1	5	3	424	2	6	7	434	3	6	12	461	6	3	9
414	1	6	4	425	2	7	8	435	3	7	12	462	6	4	12
415	1	7	4	426	2	8	9	440	4	2	4	470	7	2	7
416	1	8	5	427	2	9	10	441	4	3	6	471	7	3	11
417	1	9	5	428	2	10	11	442	4	4	8	480	8	2	8
418	1	10	6	429	2	11	12	443	4	5	10	481	8	3	12
420	2	2	2	430	3	2	3	450	5	2	5	490	9	2	9
421	2	3	3	431	3	3	5	451	5	3	8				

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

Changeover switches without "Off"



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005000

500
1 pole
1 chamber

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005011

501
2 poles
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005022

502
3 poles
3 chambers

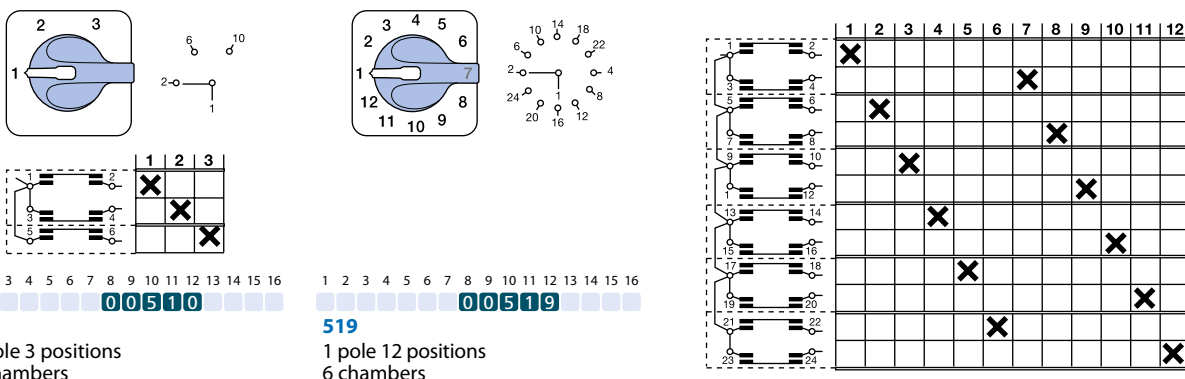
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005033

503
4 poles
4 chambers

	Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers
500/5	5	2	5	500/7	7	2	7	500/9	9	2	9	500/11	11	2	11
500/6	6	2	6	500/8	8	2	8	500/10	10	2	10	500/12	12	2	12

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

Multi-step switches without "Off" position



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005110

510
1 pole 3 positions
2 chambers

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
005119

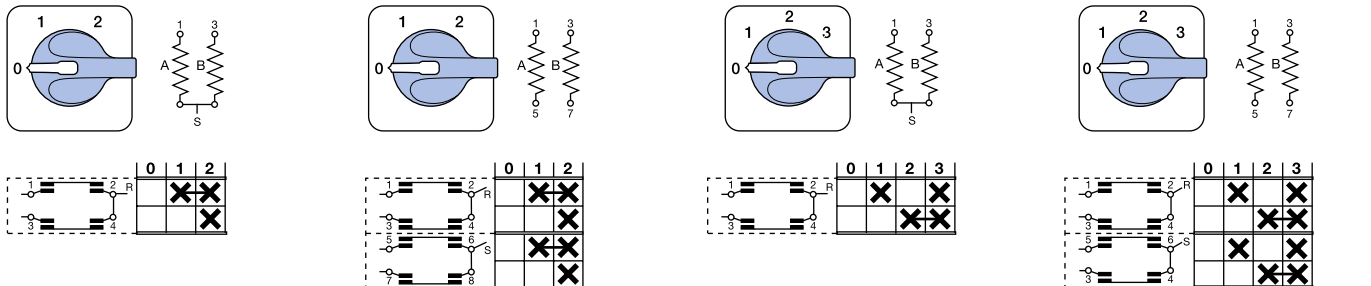
519
1 pole 12 positions
6 chambers

Multi-step switches without "Off" position

	Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers		Poles	Positions	Chambers
511	1	4	2	521	2	4	4	530	3	3	5	543	4	6	12
512	1	5	3	522	2	5	5	531	3	4	6	550	5	3	8
513	1	6	3	523	2	6	6	532	3	5	8	551	5	4	10
514	1	7	4	524	2	7	7	533	3	6	9	552	5	5	13
515	1	8	4	525	2	8	8	534	3	7	11	560	6	3	9
516	1	9	5	526	2	9	9	535	3	8	12	561	6	4	12
517	1	10	5	527	2	10	10	540	4	3	6	570	7	3	11
518	1	11	6	528	2	11	11	541	4	4	8	580	8	3	12
520	2	3	3	529	2	12	12	542	4	5	10				

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

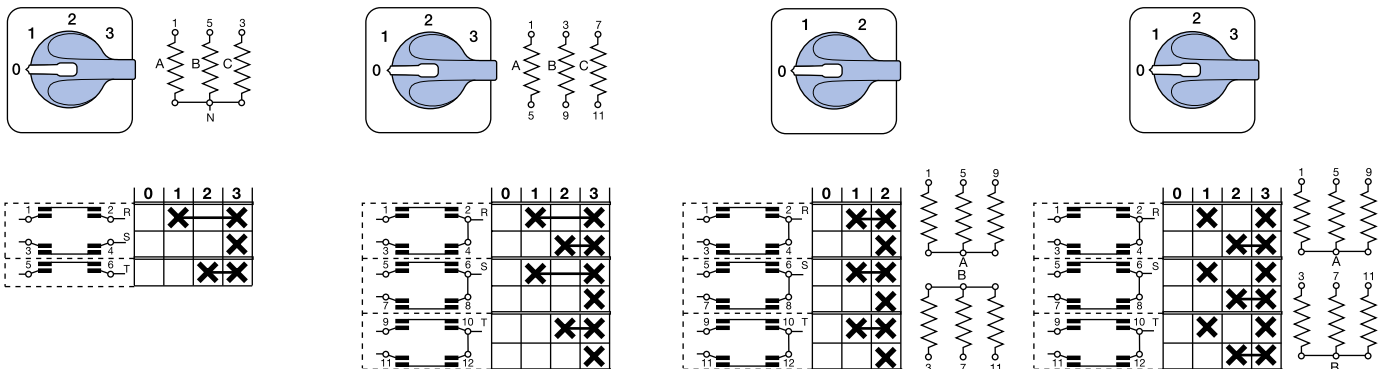
602
2 poles switching sequence
0 - A - (A+B)
2 chambers

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

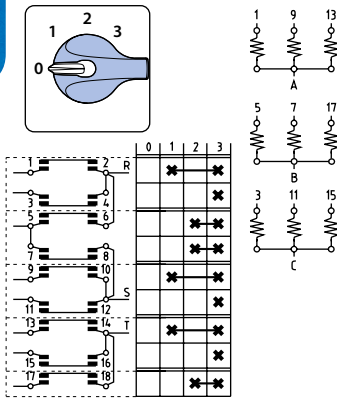
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
0 0 6 0 7

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

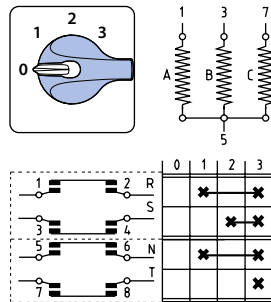
Gang switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00609

609

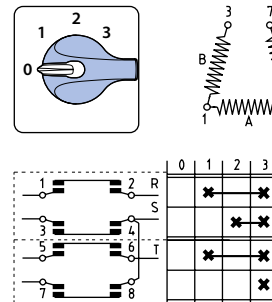
3 poles switching sequence
0 - A - (A+B) - (A+B+C)
5 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00610

610

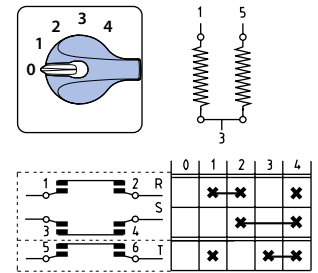
Switching sequence
 λ 0 - A - (A+B) - (A+B+C)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00611

611

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

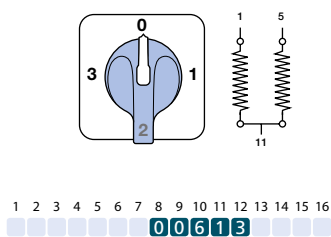


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00612

612

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

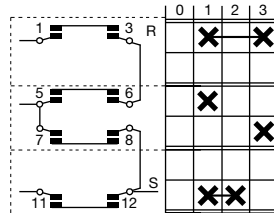
Kitchen and heating switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00613

613

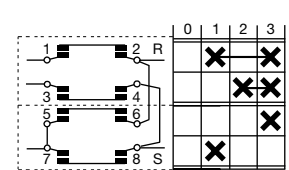
3 positions switching sequence
0-A+B parallell; A or B-A+B series -0
3 chambers



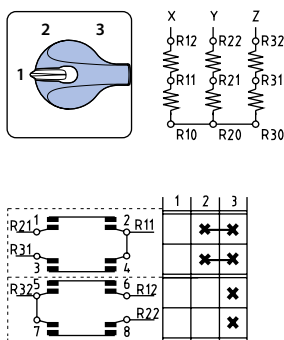
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00614

614

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



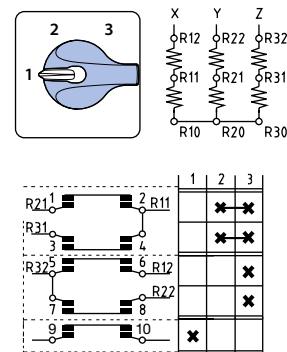
Resistance elimination switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00620

620

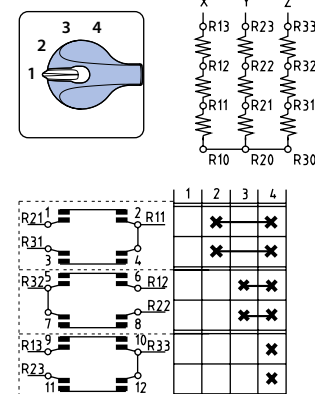
3 phases, 3 points
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00621

621

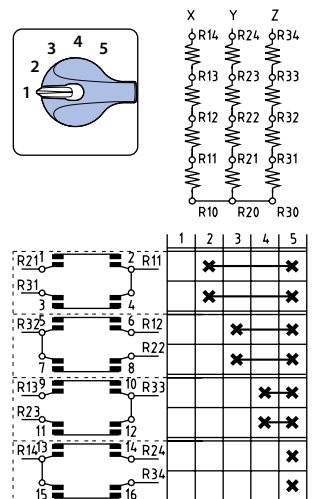
3 phases, 3 points
3 chambers
With auxiliary contact



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00622

622

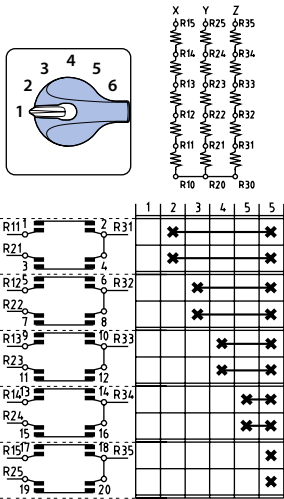
3 phases, 4 points
3 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00624

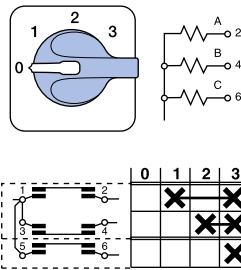
624

3 phases, 5 points
4 chambers



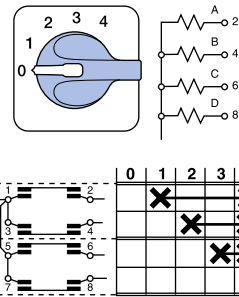
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00626

626
3 phases, 6 points
5 chambers



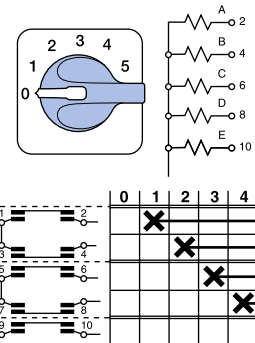
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00630

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
00631

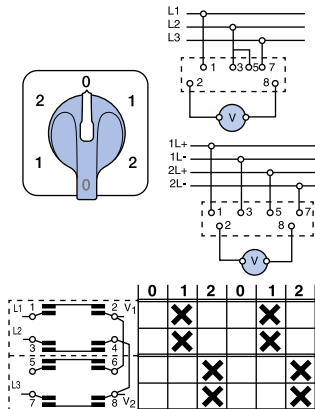
631
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D)
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00632

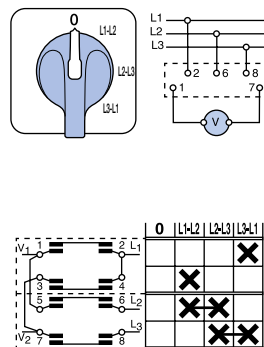
632
Switching sequence
0 - A - (A+B) - (A+B+C) - (A+B+C+D) - (A+B+C+D+E)
3 chambers

Voltmeter switches



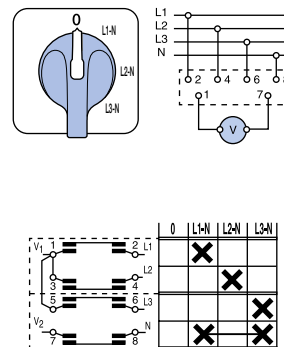
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00700

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



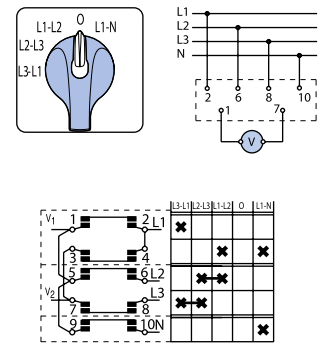
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00701

701
3 phases
2 chambers



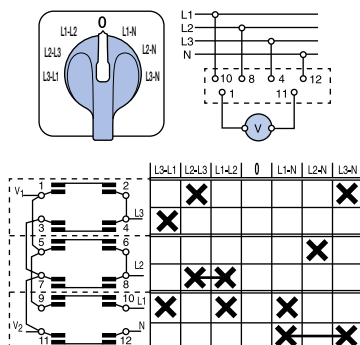
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00702

702
3 phases to neutral
2 chambers



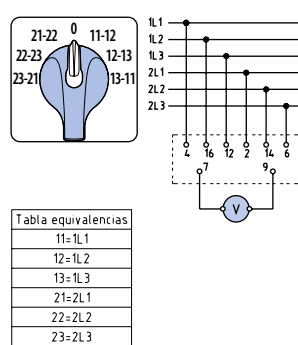
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00704

704
3 phases and 1 phase to neutral
3 chambers



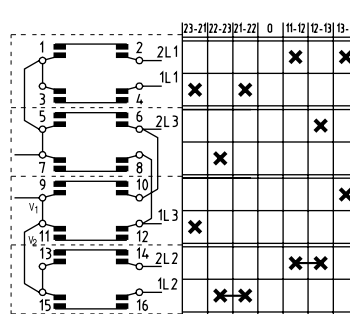
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00705

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



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00706

706
2 three-phase lines (phase to phase)
4 chambers/chambers

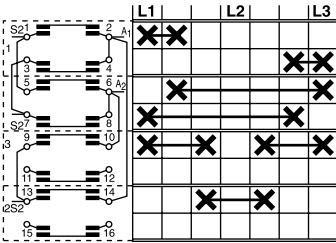
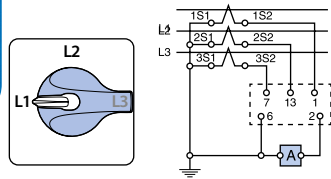


703
4 lines with 2 wires C.A. o C.C.
4 chambers

708
3 phases, 2 potencial transformers
1 pole
2 chambers

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

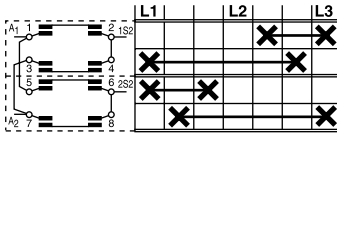
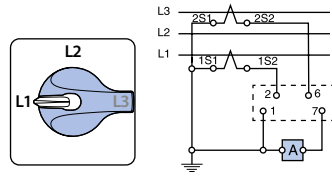
Ammeter switches



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00720

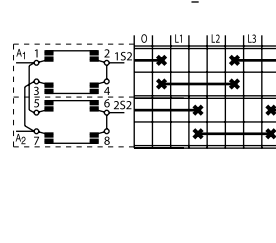
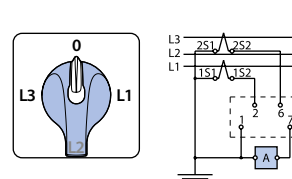
720*
3 phases, 3 current transformers,
1 pole
4 chambers

* New diagram 732



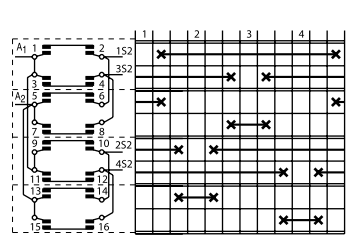
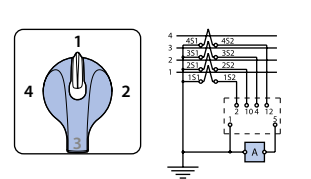
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00721

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



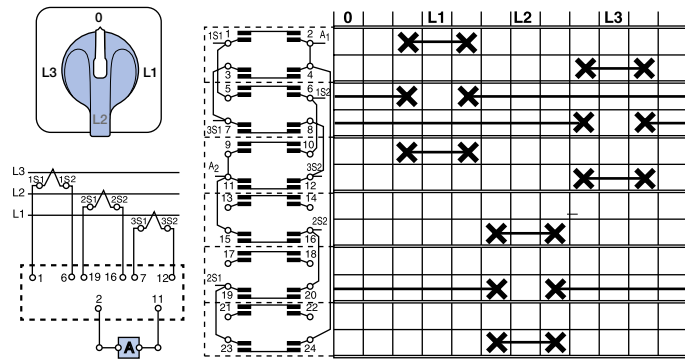
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00724

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



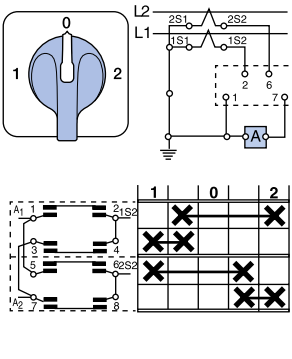
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00725

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



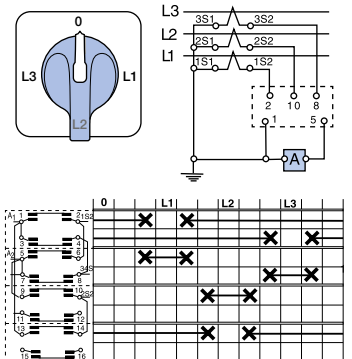
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00727

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
00730

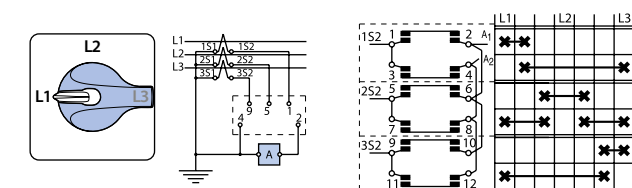
730
2 current transformers,
1 pole
2 chambers



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00731

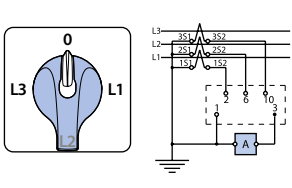
731*
3 current transformers,
1 pole
4 chambers

* New diagram 733



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
00732

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
00733

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

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

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

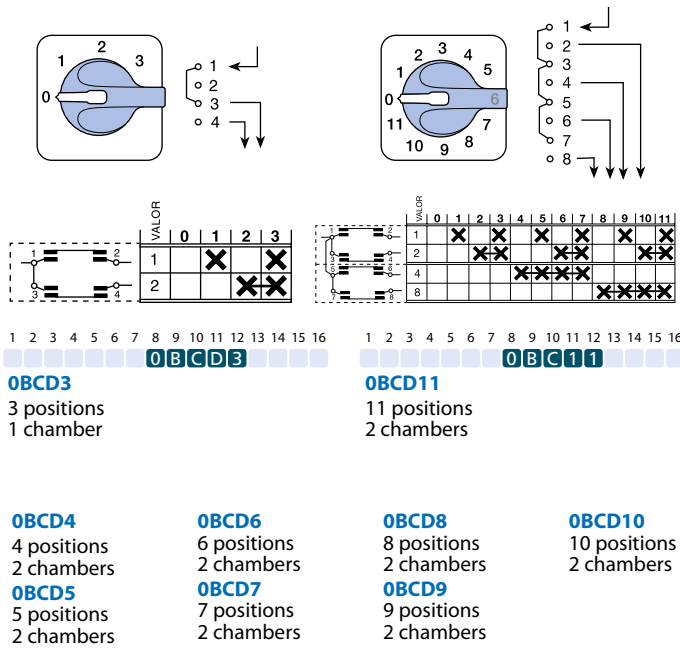
723
2 lines, 2 current transformers,
1 pole
3 chambers

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

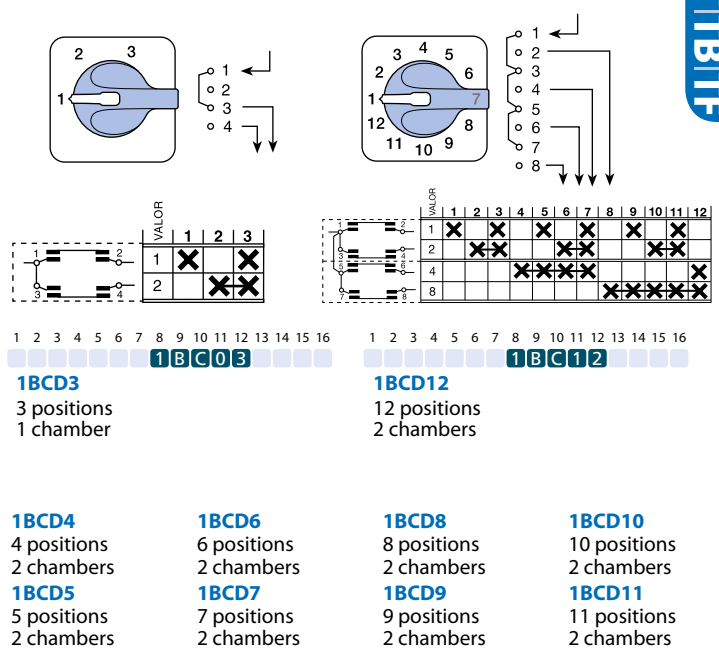
729
1 current transformers,
1 pole
1 chamber

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

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

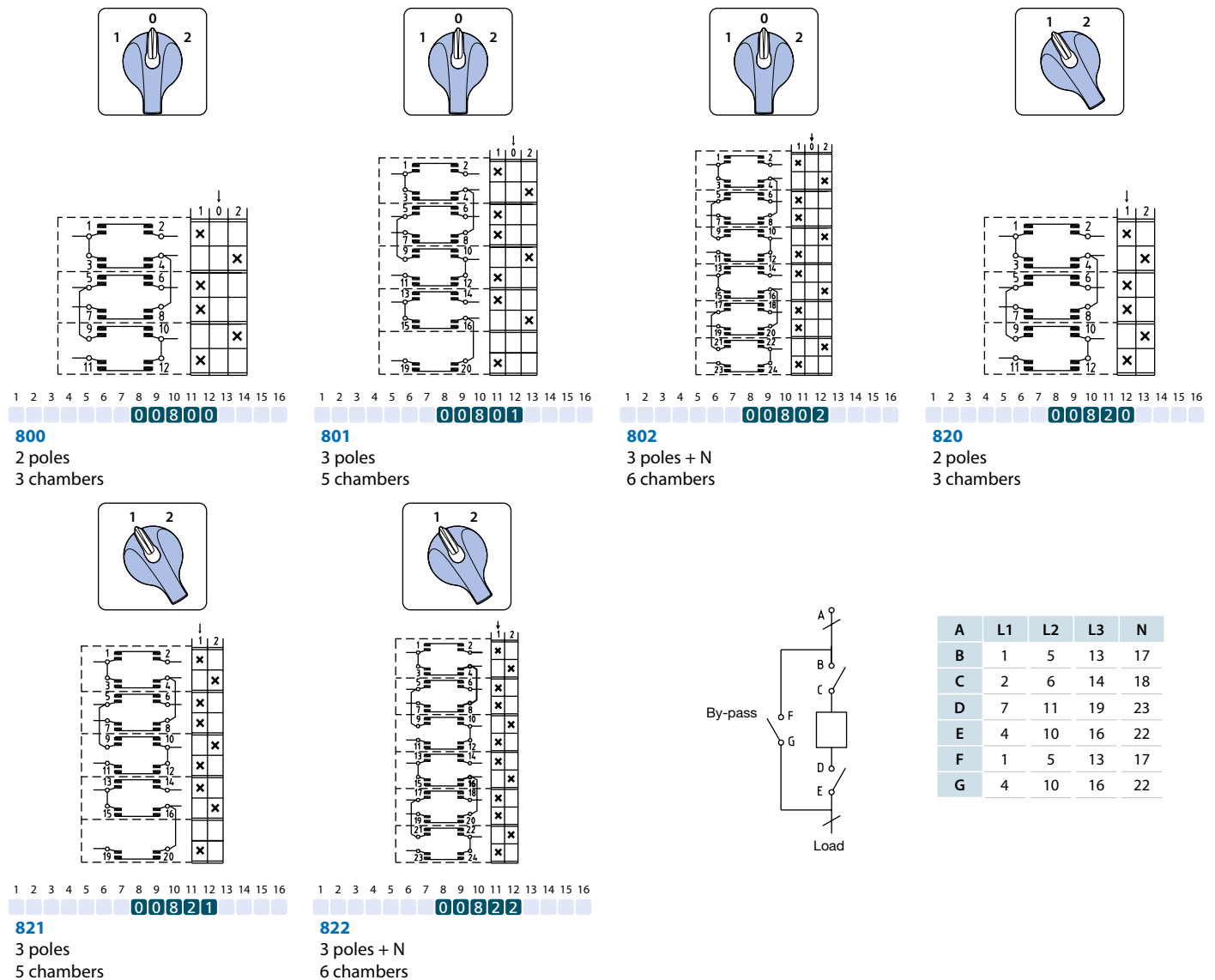


Switches for B.C.D. codification without "Off"

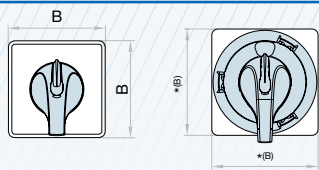


To view these wiring diagrams please visit our download area on www.telergon.com

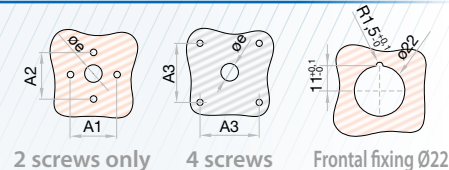
By-pass switches



T Door mounting E



Door mounting drilling



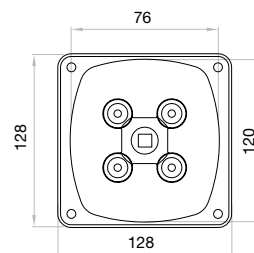
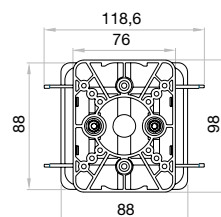
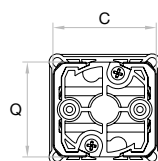
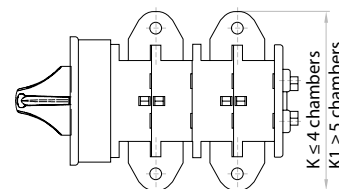
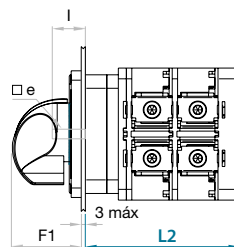
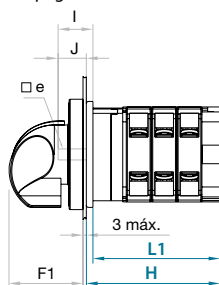
* (B) Features & dimensions in page 27.

Note:

The cam switches allow a construction up to 12 chambers (24 contacts).

It's necessary to distribute in several columns (maximum three of 12 chambers each) when the number of contacts is higher than 24, so we use the tandem drives D200 or D201.

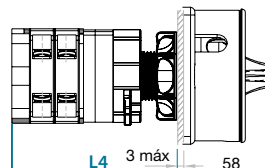
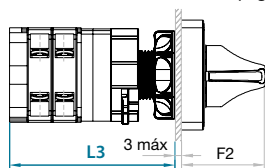
Depending on the number of contacts to be switched simultaneously, it's possible to supply up to 14 chambers switches in size 0.



Size	Series	A1	øA1	A2	øA2	A3	øA3	B	C	øe	□e	Q	F1	I	J	K	K1
0	T12 T20	32	4,5	-	4,5	36	4,5	50	46,5	12	5	46	33,5	18	15	-	-
1	T16 T25	45	4,5	-	4,5	48	4,5	65	60,5	12	5	57,5 64,5	36	20	16,8	-	-
2	T50 T63 T80	-	-	60	5,5	68	5,5	94	66 84,5	12	7	80 89	45	24,5	20,5	-	-
3	T100 T125	-	-	60	5,5	68	5,5	94	-	12	7	-	45	24,5	-	-	-
	T200 T250 T315	-	-	-	-	108	6,5	128	76	16	10	120	67	-	40	150 176 218	- - 256
	T400 T500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	T630 T800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

		Chambers															
Size	Series		1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□	13□	14□	
0	T12 T20	L1	34,5	46	57,5	69	80,5	92	103,5	115	126,5	138	149,5	161	172,5	184	
		H	37,5	49	60,5	72	83,5	95	106,5	118	129,5	141	152,5	164	175,5	187	
1	T16 T25	L1	46,4	60,6	74,8	89	103,2	117,4	131,6	145,8	160	174,2	188,4	202,6	*(1)	*(1)	
		H	49,6	63,8	78	92,2	106,4	120,6	134,8	149	163,2	177,4	191,6	205,8	*(1)	*(1)	
	T32 T40	L1	49,8	67,3	84,8	102,3	119,8	137,3	154,8	172,3	189,8	207,3	224,8	242,3	*(1)	*(1)	
		H	53	70,5	88	105,5	123	140,5	158	175,5	193	210,5	228	245,5	*(1)	*(1)	
2	T50 T63 T80	L1	58,5	78,5	98,5	118,5	138,5	158,5	178,5	198,5	218,5	238,5	258,5	278,5	*(1)	*(1)	
		H	62,5	82,5	102,5	122,5	142,5	162,5	182,5	202,5	222,5	242,5	262,5	282,5	*(1)	*(1)	
	T100 T125	L1	67	94	121	147,5	174	201	227,5	254	281	307,5	334	361	*(1)	*(1)	
		L2	71	98	125	151,5	178	205	231,5	258	285	311,5	338	365	*(1)	*(1)	
3	T175	L2	80,8	114,8	148,8	182,8	216,8	250,8	284,8	318,8	352,8	386,8	420,8	454,8	*(1)	*(1)	
		H	95	135	175	215	255	295	335	375	415	455	495	535	*(1)	*(1)	
	T200 T250 T315	H	135	215	295	375	455	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	
		H	175	295	415	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	
	T400 T500	H	175	295	415	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	
		H	215	375	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	
	T630 T800	L1	215	375	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	
		H	215	375	535	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	*(1)	

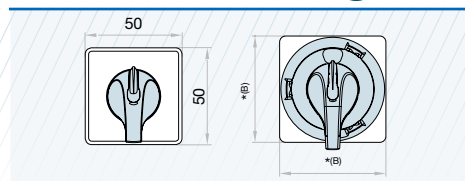
*(1) Tandem drive D200/D201- Features & dimensions in page 24.



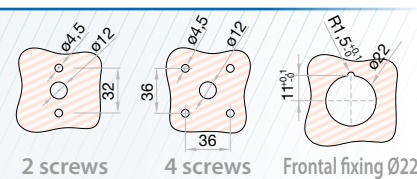
		Chambers *(ch)							
Size	Series	1□	2□	3□	4□	5□	6□	F2	
0	T12 T20	L3	63,5	75	86,5	98	109,5	121	53,5
1	T16 T25	L4	75,5	89,5	103,8	118	-	-	55,5
	T32 T40	L4	78,8	96,3	116,8	131,3	-	-	55,5

*(ch) Central quick fixing ø22 - maximum number of chambers supported.

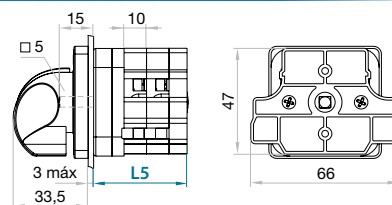
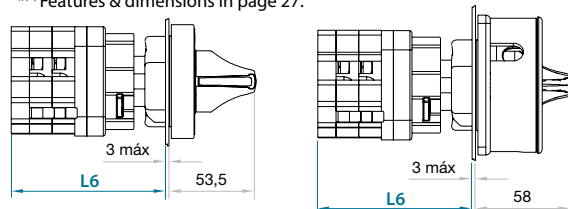
TB Door mounting E



Door
mounting
drilling

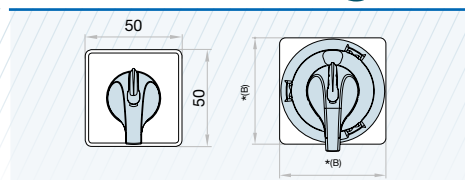


*(B) Features & dimensions in page 27.

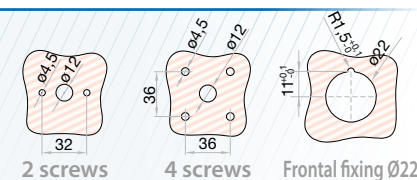


Chambers												
	1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L5	31,5	41,5	51,5	61,5	71,5	81,5	91,5	101,5	111,5	121,5	131,5	141,5
L6	60,5	70,5	80,5	90,5	100,5	110,5	-	-	-	-	-	-

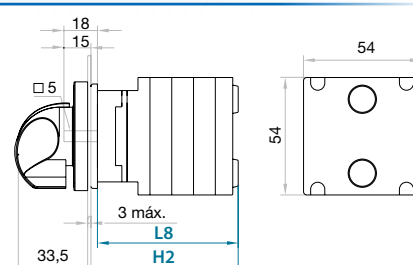
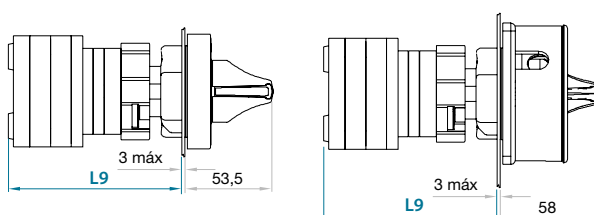
TF Door mounting E



Door
mounting
drilling

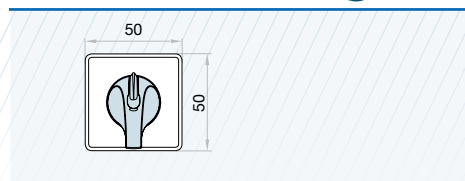


*(B) Features & dimensions in page 27.

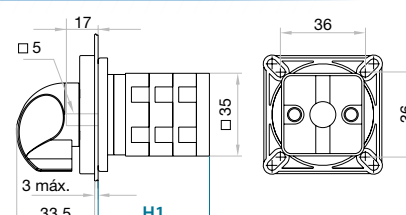
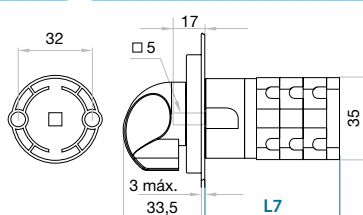
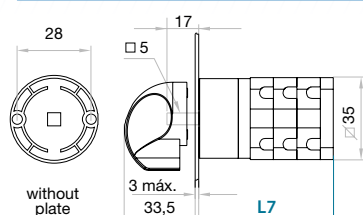
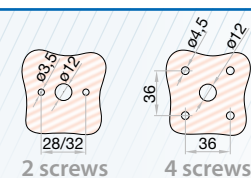


Chambers												
	1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L8	45	55	65	75	85	95	105	115	125	135	145	155
L9	73,5	83,5	93,5	103,5	113,5	123,5	-	-	-	-	-	-
H2	48	58	68	78	88	98	108	118	128	138	148	158

TP Door mounting E

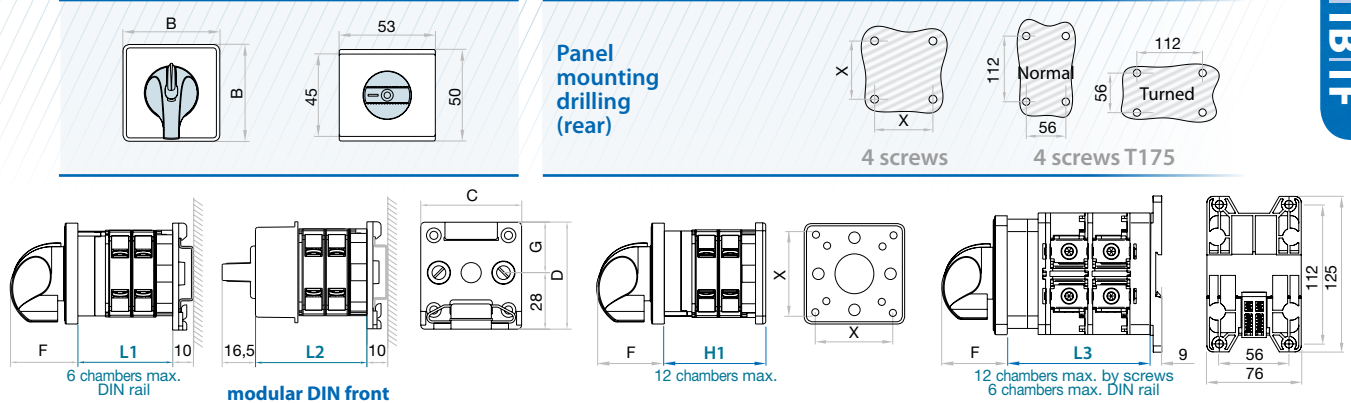


Door
mounting
drilling



Chambers												
	1□	2□	3□	4□	5□	6□	7□	8□	9□	10□	11□	12□
L7	37,5	47	56,5	66	75,5	85	94,5	104	113,5	123	132,5	142
H1	26,5	36	45,5	55	64,5	74	83,5	93	102,5	112	121,5	131

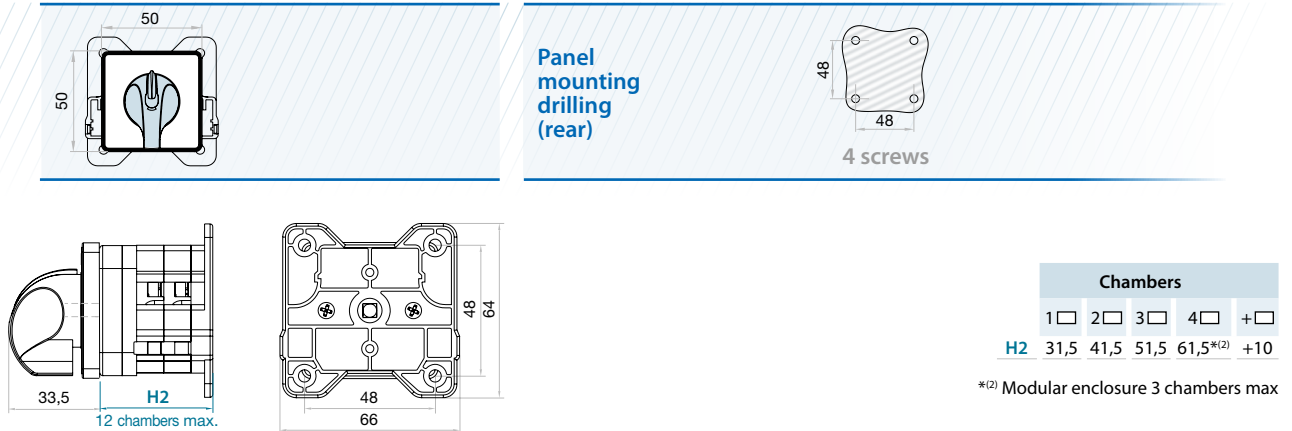
T Base mounting with screws or DIN rail (direct handle)



Size	Series	Chambers							B	C	D	F	G	X
		1□	2□	3□	4□	5□	6□	+□						
0	T12 T20	L1	34,5	46	57,5	69	80,5	92	50	50	53	33,5	25	-
		L2	-	53,5	65	76,5 ^{*(1)}	-	-	-	50	53	-	25	-
		H1	37,5	49	60,5	72	83,5	95	+11,5	50	-	33,5	-	43
1	T16 T25	L1	46,4	60,6	74,8	89	-	-	65	50	53	36	25	-
		H1	49,6	63,8	78	92,2	106,4	120,6	+14,2	65	-	36	-	48
		L1	49,8	67,3	84,8	102,3	-	-	65	-	-	36	-	-
2	T32 T40	H1	53	70,5	88	105,5	123	140,5	+17,5	65	-	36	-	48
		L1	62,5	82,5	102,5	122,5	142,5	162,5	+20	94	-	45,5	-	68
		H1	71	98	125	152	179	206	+27	94	-	45,5	-	68
3	T100 T125	L3	80,8	114,8	148,8	-	-	-	+34	94	-	45,5	-	-
		H1	95	135	175	215	255	295	+40	132	-	67	-	108

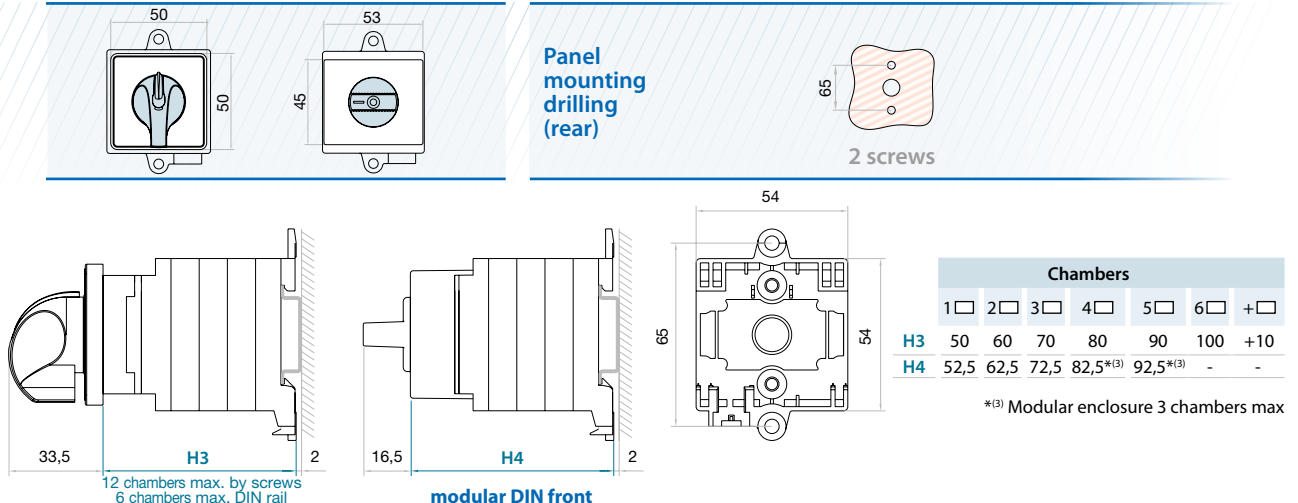
^{*(1)} Modular enclosure 3 chambers max

TB Base mounting with screws (direct handle)



^{*(2)} Modular enclosure 3 chambers max

TF Base mounting with screws or DIN rail (direct handle)



^{*(3)} Modular enclosure 3 chambers max

Technical specifications

According to IEC 60947-3				Size 0		Size 1				Size 2						Size 3							
				T12	T20	T16	T25	T32	T40	T50	T63	T80	T100	T125	T175	T200	T250	T315	T400	T630	T800	T1250	T1600
Rated thermal current	Ith	A		16	25	25	32	40	50	63	80	80	125	125	200	200	250	315	400	630	800	1000	1600
Rated insulation voltage	Ui	V		500	500	690	690	690	690	690	690	690	690	690	1000	690	690	690	690	690	690	690	690
Rated impulse withstand voltage	Uimp	kV		6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
		Ue																					
AC rated operational current	Ie	Ue 415V AC21A	A	16	25	25	32	40	50	63	80	80	125	125	200	200	250	315	315	315	400	500	500
		Ue 415V AC22A	A	16	25	25	32	40	50	63	80	80	115	115	200	200	250	315	250	315	315	315	400
		Ue 415V AC23A	A	10	25	16	20	25	32	63	63	63	100	100	200	200	200	200	-	-	-	-	-
Rated conditional short-circuit current			kA	10	10	10	10	10	15	15	15	15	15	15 ⁽³⁾	15	15	15	15	10	10	10	10	
Rated maximum current		gL-gG	A	25	25	32	32	50	50	80	80	80	125	125	160	200	250	315	400	630	800	1000	2x800
Rated breaking capacity		400V; cos φ=0,45	A	80	100	160	200	256	320	504	504	504	640	640	1600	1450	2000	2240	1450	1450	1450	1450	1450
Rated short-time withstand current (1 sec)			A	240	400	500	650	800	800	1600	1600	1600	2500	2500	3500	4400	4400	4400	6000	7000	7600	8000	8200
Mechanical durability (according to the standards, for other values please consult)					10000	10000	10000	10000	10000	10000	10000	10000	8000	8000	8000	8000	8000	8000	5000	5000	3000	3000	3000
Maximum connection capacity																							
Rigid copper conductor			mm ²	2x4	2x4	2x6	2x6	2x10	2x10	16/25 ⁽²⁾	16/25 ⁽²⁾	16/25 ⁽²⁾	35/50 ⁽²⁾	35/50 ⁽²⁾	95	95	120	185	-	-	-	-	-
Flexible copper conductors			mm ²	2x2,5	2x2,5	2x4	2x4	2x6	2x6	10/16 ⁽²⁾	10/16 ⁽²⁾	10/16 ⁽²⁾	16/35 ⁽²⁾	16/35 ⁽²⁾	95	95	120	185	-	-	-	-	-

According to UL508 - CAN / CSA C22.2 N° 14			Size 0		Size 1				Size 2						Size 3								
			T12	T20	T16	T25	T32	T40	T50	T63	T80	T100	T125	T175	T200	T250	T315	T400	T630	T800	T1250	T1600	
Rated thermal current	Ith	A	12	20	16	25	32	40	63	63	63	100	100	200	200	200	200	-	-	-	-	-	
General use rating		A	12	20	16	25	32	40	63	63	63	100	100	200	200	200	200	-	-	-	-	-	
		Vac	300	300	600	600	600	600	600	600	600	600	600	600	600	600	600	600	-	-	-	-	-
AC rated operational power		3x240V	HP	2	5	5	7,5	10	15	20	20	20	30	30	25	60	60	60	-	-	-	-	-
		3x480V	HP	-	-	10	15	20	25	40	40	40	50	50	60	75	75	75	-	-	-	-	-
		3x600V	HP	-	-	10	15	20	25	40	40	40	50	50	50	60	60	60	-	-	-	-	-

*⁽¹⁾ 500V size "0" *⁽²⁾ With extension terminals *⁽³⁾ With phase barriers

Approvals T:



Normal service conditions*

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

- Rated duties at utilization categories AC21A, AC22A y AC23A: Continuing (8 hours); uninterrupted.
- Rated duties at utilization categories AC3 and AC4: Intermittent; temporary
- Switching direct currents: For L/R<50msg, rated operational current (Ie) can be dealt with up to 30Vdc. With higher voltages, several contacts have to be connected in series.

* Please consult for other service conditions.

According to IEC 60947-3				Size 0						
				TB20	TB25	TB32	TF12	TF16	TF25	
Rated thermal current	Ith	A		20	25	32	20	25	32	
Rated insulation voltage	Ui	V		500	500	500	690	690	690	
Rated impulse withstand voltage	Uimp	kV		4	4	4	6	6	6	
				Ue						
AC rated operational current	Ie	Ue 415V	AC21A	A	20	25	32	20	25	32
		Ue 415V	AC22A	A	20	25	32	20	25	32
		Ue 415V	AC23A	A	20	25	32	-	-	-
Rated conditional short-circuit current		kA		5	5	5	5	5	5	
Rated maximum current	gL-gG	A		35	35	35	20	25	32	
Rated breaking capacity	400V; cos φ=0,45	A		160	200	256	100	160	200	
Rated short-time withstand current (1 sec)		A		240	400	500	350	400	500	
Mechanical durability (according to the standards, for other values please consult)				10000	10000	10000	10000	10000	10000	
Maximum connection capacity										
Rigid copper conductor		mm²		1x10 2x6	1x10 2x6	1x10 2x6	1x10	1x10	1x10	
Flexible copper conductors		mm²		1x6 2x4	1x6 2x4	1x6 2x4	1x6	1x6	1x6	

According to UL508 - CAN / CSA C22.2 N° 14			Size 0					
						TF12	TF16	TF25
Rated thermal current	Ith	A	-	-	-	16	20	25
General use rating		A	-	-	-	16	20	25
		Vac	-	-	-	600	600	600
AC rated operational power	3x240V	HP	-	-	-	2	5	7,5
	3x480V	HP	-	-	-	5	10	12
	3x600V	HP	-	-	-	5	10	15

According to IEC 60947-3 / IEC 60947-5				Size 0	
				TP10	
Rated thermal current	Ith	A		12	
Rated insulation voltage	Ui	V		500	
Rated impulse withstand voltage	Uimp	kV		4	
				Ue	
AC rated operational current	Ie	Ue 415V	AC13A	A	10
		Ue 415V	AC21A	A	12
		Ue 415V	AC22A	A	12
		Ue 415V	AC23A	A	10
Rated conditional short-circuit current		kA		5	
Rated maximum current	gL-gG	A		16	
Rated breaking capacity	400V; cos φ=0,45	A		80	
Rated short-time withstand current (1 sec)		A		100	
Mechanical durability (thousand of operations)				1000	
Maximum connection capacity					
Rigid copper conductor		mm²		2x4	
Flexible copper conductors		mm²		2x2,5	

Approvals TP:



Approvals TB:



consult

Approvals TF: