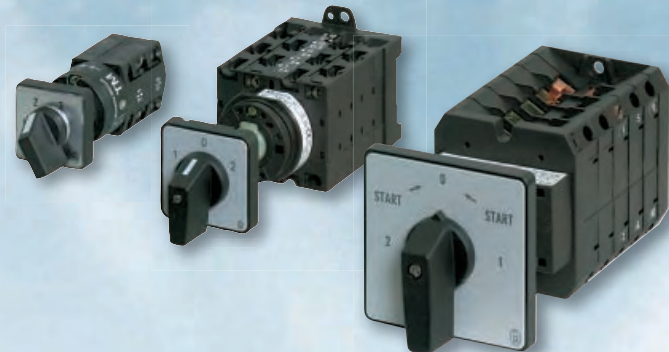


# Rotary switches T, switch-disconnectors P, Small enclosures CI-K

The powerful, rugged and compact cam switches and switch-disconnectors are used in industry, workshops and in building services management. The basic switch types of four different construction types and with a wide range of standard contact sequences and rating ranges are available.



**TM/T rotary switches**  
 - up to 10/132 kW  
 - Non-standard circuits possible (EK)  
 - Various types of construction  
**Page 7/52**



**Switch for ATEX Zone 22**  
 - TT rotary switches  
 - P1 and P3 switch-disconnectors  
 - Degree of protection IP65  
**Page 7/4**



**P switch-disconnectors**  
 - Up to 110 kW and 315 A  
 - P1 and P3 in IP65 enclosure  
 - 4 different types of construction  
**Page 7/6**



**CI-K enclosure system**  
 - Switch protection in IP65  
 - Individual laser inscription  
 - Customized cutouts  
 - Cable entry as push-through diaphragm or knockout  
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Rotary switches, switch-disconnectors



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Mini rotary switches



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Small enclosures, empty enclosures



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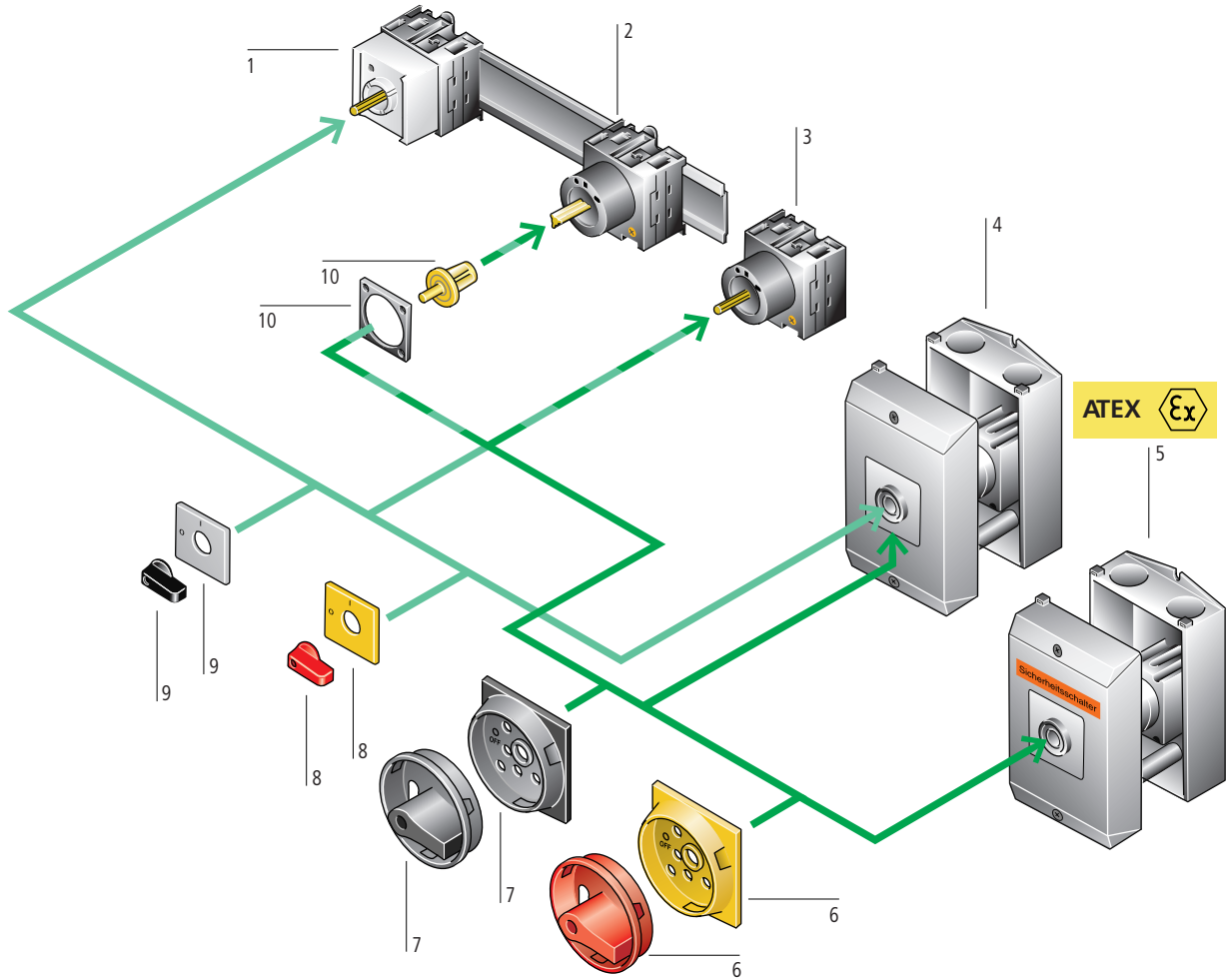


**xCommand T**  
ON-OFF switch T0, T3, T5B, T5

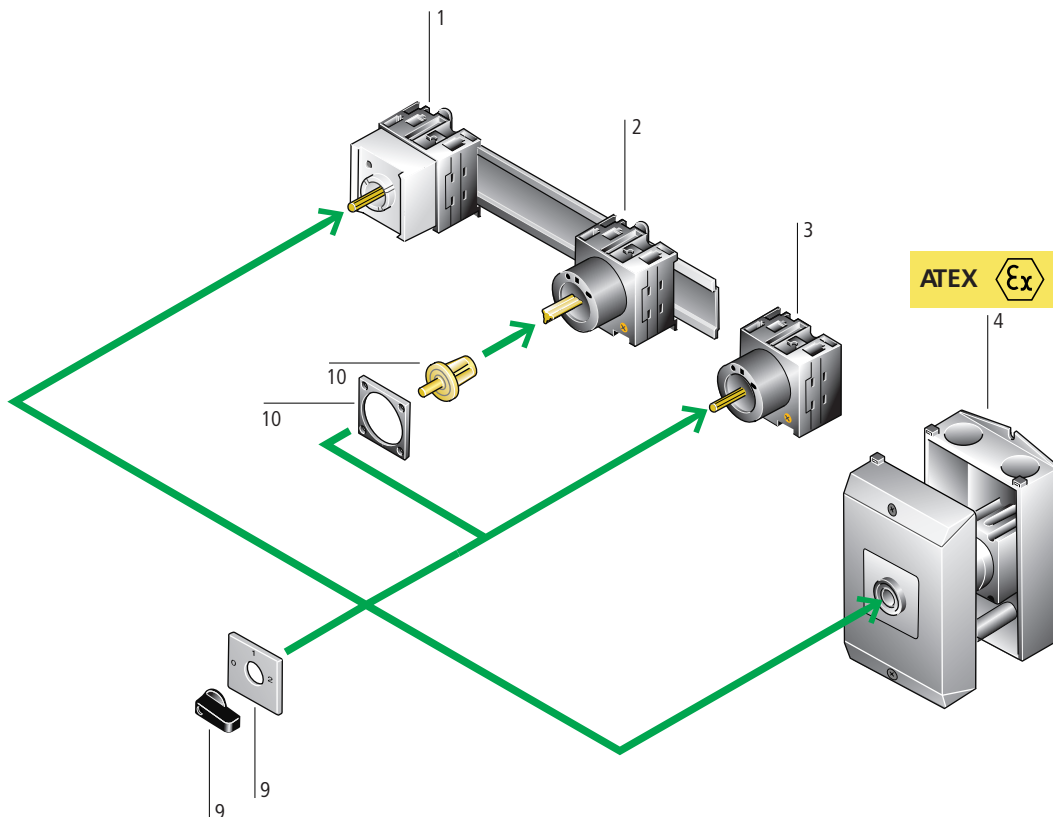
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Rotary switches, switch-disconnectors



Control switches T0, T3, T5B, T5



<b>Service distribution board mounting (.../IVS) 1</b> Front IP30 for snap fitting to IEC/EN 60 715 top-hat rail Flush mounting <ul style="list-style-type: none"> <li>• in service distribution board up to 3 height units (45 mm mounting depth)</li> <li>• in control panel up to 11 height units</li> </ul> → page 7/21	<b>Centre mounting (.../EZ) 3</b> Front IP65 Mounting in fixing hole $\varnothing$ 22,3 according to IEC/EN 60947-5-1 "One man mounting" by centre fixing → page 7/21	<b>Main switch (mounting kit) for use as Emergency-Stop device 6</b> To IEC/EN 60204-1, VDE 0113 Part 1 With red rotary handle and yellow locking ring Lockable in the 0 position → page 7/43
<b>Rear mounting (.../Z) 2</b> Front IP65 Fixing either by snap-on or screw fixing (T0, T3) for snap fitting to IEC/EN 60 715 top-hat rail Drive coupling in door or cover Connection from front → page 7/21	<b>Surface mounting (.../I...) 4</b> IP65  with an additional terminal Enclosures for metric cable glands to EN 50262 → page 7/21	<b>Main switch (kit) 7</b> Black rotary handle and locking ring Lockable in the 0 position → page 7/43
<b>Rear mounting main switch (...V/SVB) 2</b> Front IP65 To IEC/EN 60 204, VDE 0113 and IEC/EN 60 947-3, for T0... up to 8 and for T3... up to 12 current paths with door interlock in "I" position → page 7/10	<b>Surface mounting, main switch (.../I...) 4</b> IP65  To IEC/EN 60 204, VDE 0113 and IEC/EN 60 947-3, for T0... up to 8 and for T3... up to 10 current paths Position 0 lockable with 3 padlocks Enclosures for metric cable glands to EN 50262 with an additional terminal → page 7/10	<b>Thumb-grip, for use as Emergency-Stop device 8</b> To IEC/EN 60 204-1, VDE 0113 Part 1 Red thumb grip and yellow front plate → page 7/43
<b>Flush mounting (.../E) 3</b> Front IP65 Mounting and connection from rear Terminals: Crosshead screwdriver Pozidrive Finger- and back-of-hand proof T8 aways with connection bracket → page 7/21	<b>ATEX <math>\text{Ex}</math></b> → page 7/43	<b>Thumb-grip 9</b> Black thumb-grip with front plate → page 7/43
<b>Flush mounting main switch (.../EA/SVB) 3</b> Front IP65 To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3, for T0... up to 8 and for T3... up to 12 current paths N and PE terminals → page 7/10	<b>Safety switch (.../I...) 5</b> IP65  with an additional terminal with cover safety in 0 position Position 0 lockable with 3 padlocks Enclosures for metric cable glands to EN 50262 Label "Safety switch", colour: orange → page 7/30	<b>Coupling drive 10</b> Including shaft for retrofitting of switch T0(T3)-.../XZ in rear mounting form Replacement part for T0(T3)/(P1)-.../Z for the conversion of switch T5(B)-.../E to rear mounting switch Replacement part for T5(B)/(P3)-...Z → page 7/49
	<b>ATEX <math>\text{Ex}</math></b> → page 7/43	

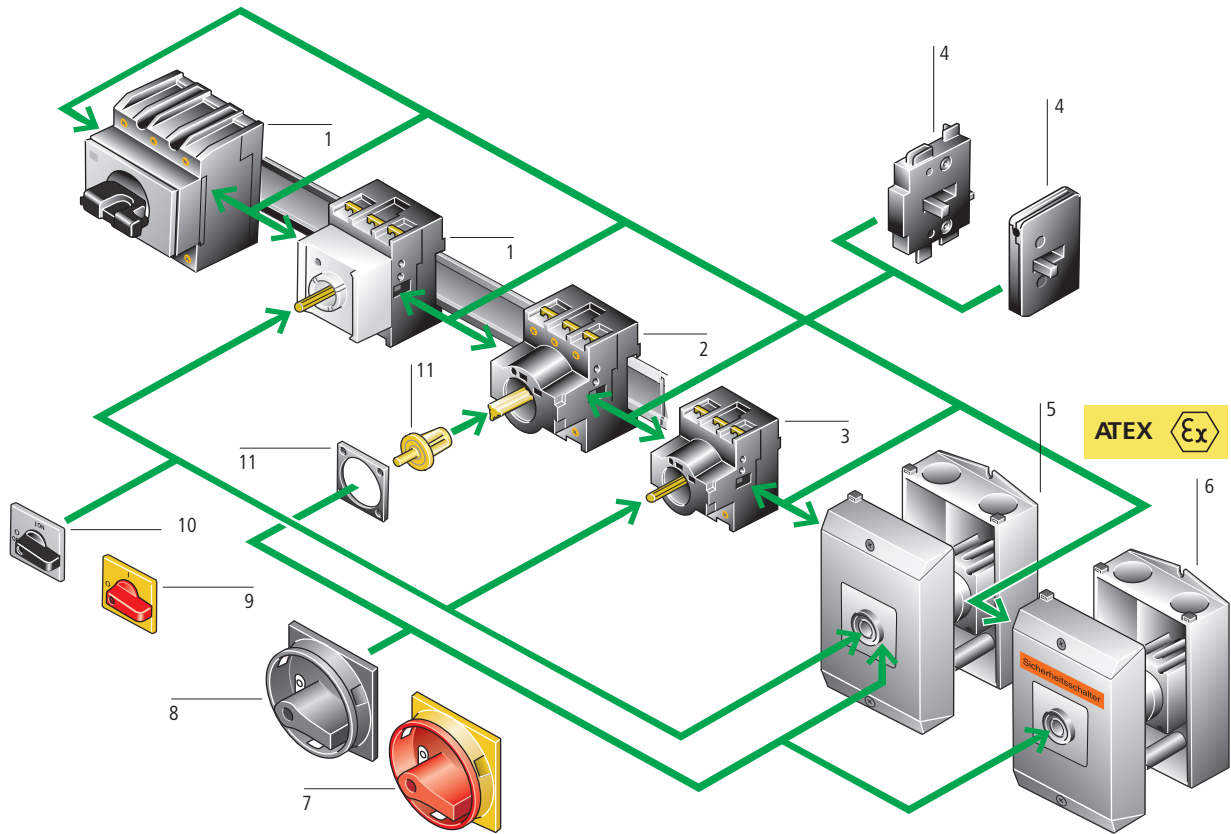


**xCommand P**  
ON-OFF switches P1, P3

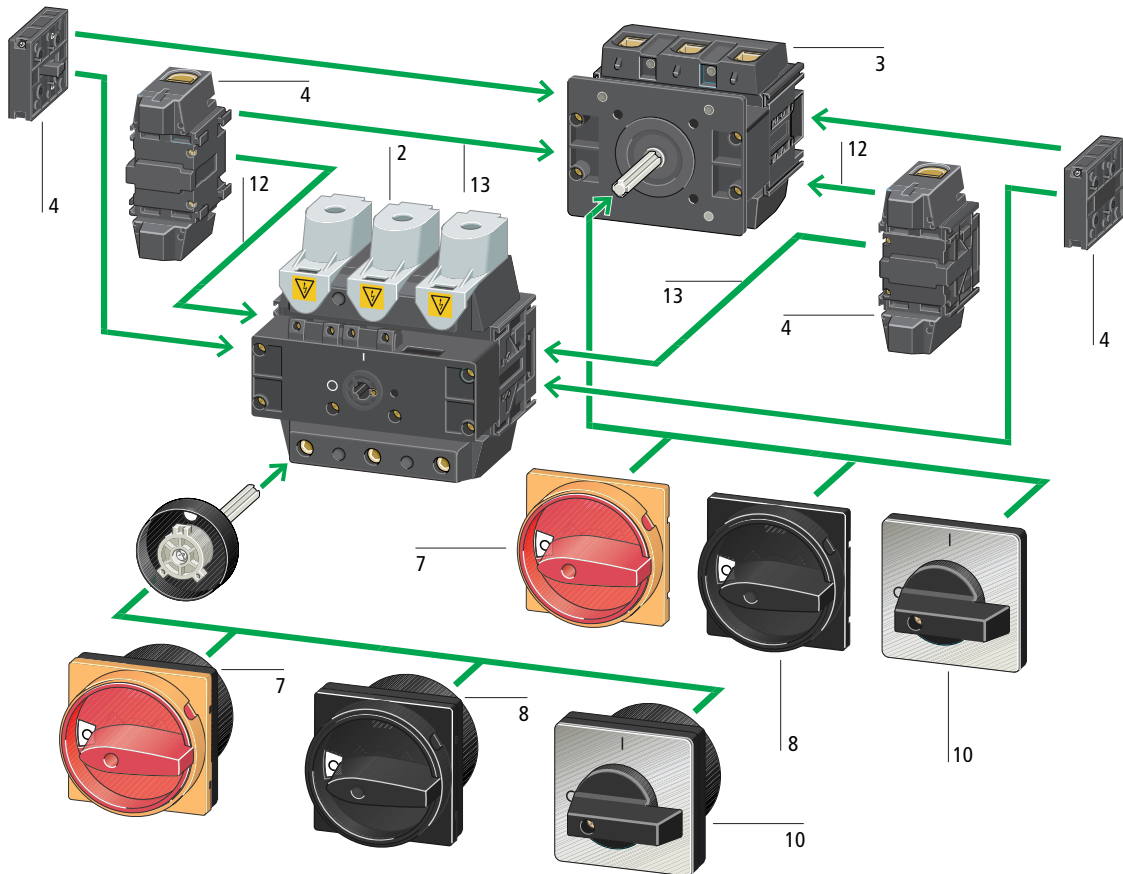
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




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Rotary switches, switch-disconnectors



### ON OFF switches P5



<b>Service distribution board mounting (.../IVS)</b> 1	<b>Flush mounting main switch (.../EA/SVB)</b> 3	<b>Safety switch (.../I...-SI)</b> 6
Front IP30	Front IP65	IP65
Fitting dimensions according to DIN 43880	To IEC/EN 60204, VDE 0113 and IEC/EN 60 947-3	
for snap fitting to EN 50 022 top-hat rail	N and PE terminals	with an additional terminal
Space requirement	Position 0 lockable with 3 padlocks	with cover safety in 0 position
P1, 3 pole: 3 PLE	2 modules can be retrofitted	0 position with 3 padlocks
P3, 3 pole: 4 space units	→ page 7/10	Lockable
P3-.../IVS lockable with padlock in "0" position	<b>Centre mounting (.../EZ)</b> 3	Label "Safety switch", colour: orange
→ page 7/21	Front IP65	Enclosures for metric cable glands to EN 50262
<b>Rear mounting (.../Z)</b> 2	Mounting in fixing hole Ø 22,3 according to IEC/EN 60 947-5-1	→ page 7/30
Front IP65	"One man mounting" by centre fixing	<b>ATEX</b> 
Fixing either by snap-on or screw fixing	→ page 7/21	→ page 7/43
for snap fitting to EN 50022 top-hat rail	<b>Add-on modules</b> 4	<b>Main switch (mounting kit) for use as Emergency-Stop device</b> 7
Drive coupling in door or cover	Switchable N conductor (early operation N/O contact)	To IEC/EN 60204-1, VDE 0113 Part 1
Connection from front	Auxiliary contacts	With red rotary handle and yellow locking ring
2 modules can be retrofitted	Fingerproof	Lockable in the 0 position
→ page 7/21	Auxiliary contact, N/O contact: always switched as load-shedding contact (late operation on, early operation off)	→ page 7/43
<b>Rear mounting main switch (...V/SVB)</b> 2	→ page 7/48	<b>Main switch (kit)</b> 8
Front IP65	<b>Surface mounting (.../I...)</b> 5	Black rotary handle and locking ring
To IEC/EN 60204, VDE 0113 and IEC/EN 60 947-3	IP65	Lockable in the 0 position
with door interlock in "I" position		→ page 7/43
Maintenance key for commissioning or fault-finding	with an additional terminal	<b>Thumb-grip, for use as Emergency-Stop device</b> 9
Position 0 lockable with 3 padlocks	Additional modules can be retrofitted	To IEC/EN 60 204-1, VDE 0113 Part 1
2 modules can be retrofitted	P1: + 1, P3: + 2	Red thumb-grip and yellow front plate
→ page 7/10	Enclosures for metric cable glands to EN 50262	→ page 7/43
<b>Flush mounting (.../E)</b> 3	→ page 7/21	<b>Thumb-grip</b> 10
Front IP65	<b>Surface mounting, main switch (.../I...)</b> 5	Black thumb-grip with front plate
Mounting and connection from rear	IP65	→ page 7/43
Terminals:		<b>Coupling drive</b> 11
Crosshead screwdriver Pozidrive	with an additional terminal	Including shaft
Finger- and back-of-hand proof	To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3	for the retrofitting of switch T0(T3)-.../XZ to rear mounting, replacement part for T0(T3)/(P1)-.../Z
2 modules can be retrofitted	0 position with 3 padlocks	for the conversion of T5(B)-.../E to rear mounting switch, replacement part for T5(B)/(P3)-.../Z
→ page 7/21	Lockable	→ page 7/49
	Additional modules can be retrofitted:	<b>Protective conductor terminal</b> 12
	P1: + 1, P3: + 2	Flush mounting, right
	Enclosures for metric cable glands to EN 50262	Service distribution board mounting, left
	→ page 7/10	<b>Neutral terminal</b> 13
	<b>ATEX</b> 	Flush mounting, left
	→ page 7/43	Service distribution board mounting, right
		→ page 7/48



# Description

## Key to part numbers, modular system

**xCommand** T0, T3, T5, T5B

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Rotary switches can be used for many switching and control applications. For example as ON-OFF switches, main switches, main/control switches, instrument switches. The switch consists of a hand actuator, the switch unit and the mounting accessories

The switch chamber (contact unit = BE) contains 1 or 2 contacts. In our catalogue "T Rotary Switches" are over 800 standard circuits (Please order under K115D/F/GB. Article number 077643). On the following pages a selection of our standard circuits.

T rotary switches and P switch-disconnectors are manufactured without PCB, CFC, asbestos and silicon. The contacts are free from cadmium.

The CI-K... insulated enclosures are silicon and halogen free.

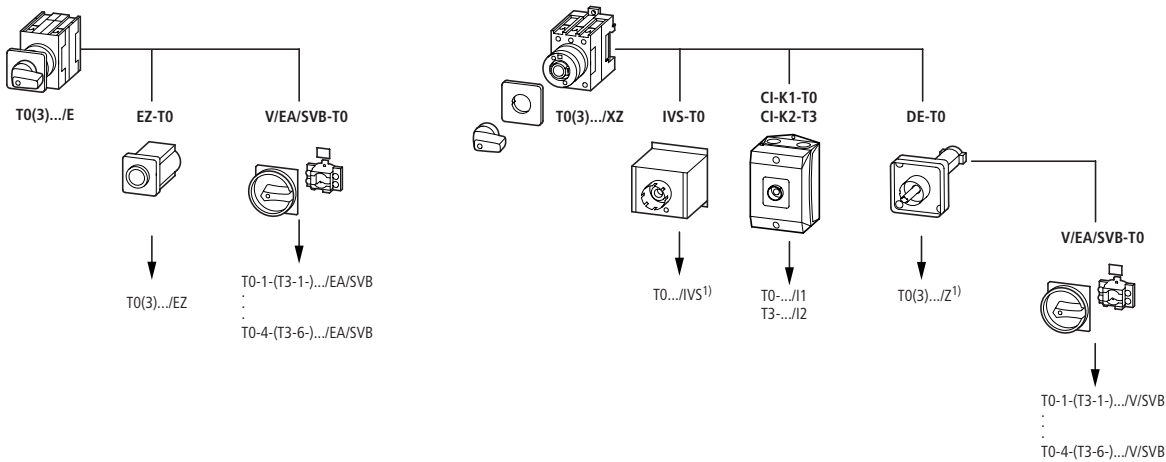
### Rotary switches T0 and T3

#### Key to type references

T..... / .....

<b>Switch size</b> T0 or T3	<b>Number of contact chambers</b> = contact units (BE)	<b>Contact sequence number</b>	<b>Mounting form</b> → Page 7/2
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#### Using the modular system to convert the mounting form



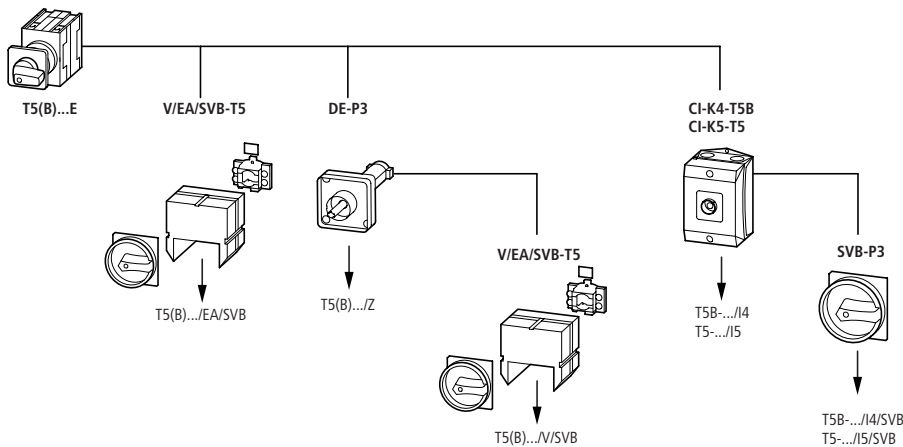
### TB5 Rotary switches

#### Key to type references

T..... / .....

<b>Switch size</b> T5(B)	<b>Number of contact chambers</b> = contact units (BE)	<b>Contact sequence number</b>	<b>Mounting form</b> → Page 7/2
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#### Using the modular system to convert the mounting form T5(B)



**Note** <sup>1)</sup> including shaft

Rotary switches, switch-disconnectors



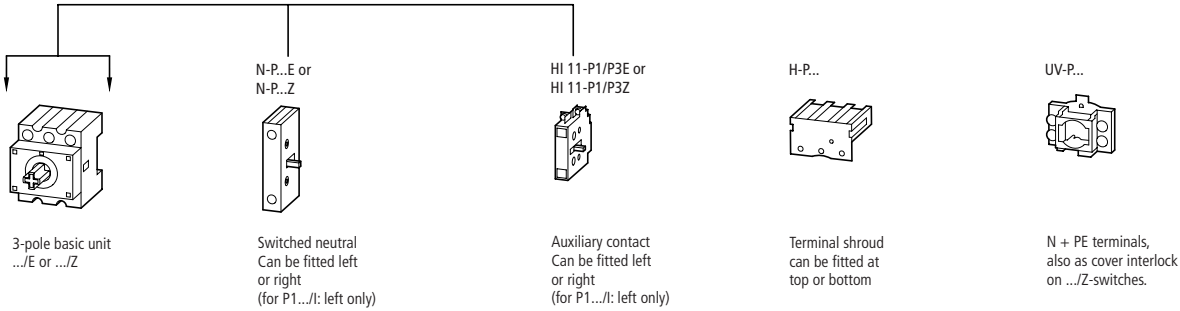
**P1 and P3 Switch-disconnectors**

**Key to type references**

P..... - ..... / ..... - ..... / .....

Switch sizes P1 or P3	Rated uninterrupted current	Mounting form → Page 7/2	Part no. suffix (if required)	Accessories from → Page 7/47
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**Add-on functions due to modular system**



**Mini rotary switches TM**

The mini rotary switch TM is a particularly small switch with a small space requirement. It is ideally suited for small voltages and currents such as electronic controls. For greater safety the contacts are gold plated.

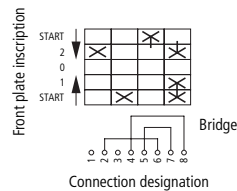
TM switches have continuous terminal markings starting with 1. Selection pages from → page 7/54

**Key to type references**

TM-..... - ..... / ..... + .....

Number of contact chambers = contact units (BE)	Contact sequence number	Mounting form → Page 7/2	Accessories → Page 7/59
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**Circuit representation**



(see also ordering example in the electronic catalogue)

**Switch from 0 to 1**

contact 1 – 2 open,  
contact 3 – 4 open,  
contact 5 – 6 open,  
contact 7 – 8 closed

**Switch from 1 to START  
with automatic return to 1**

contact 1 – 2 open,  
contact 3 – 4 closed,  
contact 5 – 6 open,  
contact 7 – 8 remains closed

**Switch from 1 to 0**

contact 1 – 2 open,  
contact 3 – 4 open,  
contact 5 – 6 open,  
contact 7 – 8 open

**Switch from 0 to 2**

contact 1 – 2 closed,  
contact 3 – 4 open,  
contact 5 – 6 open,  
contact 7 – 8 closed

**Switch from 2 to START  
with automatic return to 2**

contact 1 – 2 open,  
contact 3 – 4 open,  
contact 5 – 6 closes early,  
contact 7 – 8 opens late

**Switch from 2 to 0**

contact 1 – 2 open,  
contact 3 – 4 open,  
contact 5 – 6 open,  
contact 7 – 8 open



**xCommand T, P**

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


Rotary switches, switch-disconnectors

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
FS 908	No. of poles   N/O	N/O   L N/C	AC-23A 400/415 V 50-60 Hz P kW	$I_u$ A					

**Main switches, maintenance switches**

According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position

As Emergency-Stop device

	1	0	0	6.5	20	Surface mounting	IP65	<b>T0-1-8200/I1/SVB</b> 207145	1 off
	1	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-1-8200/EA/SVB</b> 053110	
	1	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-1-8200/V/SVB</b> 057856	
	1	0	0	13	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-1-8200/I2/SVB</b> 207200	
	1	0	0	13	32	Flush mounting	Front IP65	<b>T3-1-8200/EA/SVB</b> 066576	
	1	0	0	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-1-8200/I4/SVB</b> 207240	
	1	0	0	22	63	Flush mounting	Front IP65	<b>T5B-1-8200/EA/SVB</b> 094279	
	2	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-1-102/I1/SVB</b> 207143	
	2	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-1-102/EA/SVB</b> 091078	
	2	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-1-102/V/SVB</b> 095824	
	2	0	0	13	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-1-102/I2/SVB</b> 207198	
	2	0	0	13	32	Flush mounting	Front IP65	<b>T3-1-102/EA/SVB</b> 014374	
	2	0	0	13	32	Rear mounting	Front IP65	<b>T3-1-102/V/SVB</b> 019120	
	2	0	0	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-1-102/I4/SVB</b> 207238	
	2	0	0	22	63	Flush mounting	Front IP65	<b>T5B-1-102/EA/SVB</b> 094469	
	2	0	0	30	100	Surface mounting	IP65 <small>totally insulated</small>	<b>T5-1-102/I5/SVB</b> 207273	
	3	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-1/I1/SVB</b> 207147	
	3	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-1/EA/SVB</b> 038873	
	3	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-1/V/SVB</b> 043619	
	3	0	0	13	25	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-25/I2H/SVB<sup>1)</sup></b> 226900	
	3	0	0	13	25	Surface mounting		<b>P1-25/I2/SVB</b> 207293	
	3	0	0	13	25	Flush mounting	Front IP65	<b>P1-25/EA/SVB</b> 041097	
	3	0	0	13	25	Rear mounting	Front IP65	<b>P1-25/V/SVB</b> 055335	
	3	0	0	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2H/SVB<sup>1)</sup></b> 227868	
	3	0	0	15	32	Surface mounting		<b>P1-32/I2/SVB</b> 207314	
	3	0	0	15	32	Flush mounting	Front IP65	<b>P1-32/EA/SVB</b> 081438	
	3	0	0	15	32	Rear mounting	Front IP65	<b>P1-32/V/SVB</b> 095676	
	3	0	0	37	63	Surface mounting	IP65 <small>totally insulated</small>	<b>P3-63/I4/SVB</b> 207343	
	3	0	0	37	63	Flush mounting	Front IP65	<b>P3-63/EA/SVB</b> 031607	
	3	0	0	37	63	Rear mounting	Front IP65	<b>P3-63/V/SVB</b> 048218	

Notes <sup>1)</sup> Enclosures with hard metric knock-outs

Load current switches, main switches, maintenance/repair switches

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T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths No. of poles	Auxiliary contacts	Max. motor rating AC-23A 400/415 V 50-60 Hz	Rated uninterrupted current $I_u$ A	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
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FS 908



**Main switches, maintenance switches**

According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position  
As Emergency-Stop device

	3	0	0	45	125	Flush mounting	Front IP65	<b>P5-125/EA/SVB</b> 280898	1 off
	3	0	0	45	125	Rear mounting	Front IP65	<b>P5-125/V/SVB</b> 280914	
	3	0	0	50	100	Surface mounting	IP65	<b>P3-100/I5/SVB</b> 207373	
	3	0	0	50	100	Flush mounting	Front IP65	<b>P3-100/EA/SVB</b> 074320	
	3	0	0	50	100	Rear mounting	Front IP65	<b>P3-100/V/SVB</b> 088558	
	3	0	0	55	160	Flush mounting	Front IP65	<b>P5-160/EA/SVB</b> 280922	
	3	0	0	55	160	Rear mounting	Front IP65	<b>P5-160/V/SVB</b> 280928	
	3	0	0	90	250	Flush mounting	Front IP65	<b>P5-250/EA/SVB</b> 280936	
	3	0	0	90	250	Rear mounting	Front IP65	<b>P5-250/V/SVB</b> 280942	
	3	0	0	110	315	Flush mounting	Front IP65	<b>P5-315/EA/SVB</b> 280950	
	3	0	0	110	315	Rear mounting	Front IP65	<b>P5-315/V/SVB</b> 280956	
	3 + N	0	0	6.5	20	Surface mounting	IP65	<b>T0-2-8900/I1/SVB</b> 207151	
	3 + N	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-8900/EA/SVB</b> 207400	
	3 + N	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-8900/V/SVB</b> 207405	
	3 + N	0	0	13	25	Surface mounting	IP65	<b>P1-25/I2H/SVB/N<sup>1)</sup></b> 227860	
	3 + N	0	0	13	25	Surface mounting	IP65	<b>P1-25/I2/SVB/N</b> 207298	
	3 + N	0	0	13	25	Flush mounting	Front IP65	<b>P1-25/EA/SVB/N</b> 081587	
	3 + N	0	0	13	25	Rear mounting	Front IP65	<b>P1-25/V/SVB/N</b> 086333	
	3 + N	0	0	15	32	Surface mounting	IP65	<b>P1-32/I2/SVB/N</b> 207319	
	3 + N	0	0	15	32	Surface mounting	IP65	<b>P1-32/I2H/SVB/N<sup>1)</sup></b> 227871	
	3 + N	0	0	15	32	Flush mounting	Front IP65	<b>P1-32/EA/SVB/N</b> 091079	
	3 + N	0	0	15	32	Rear mounting	Front IP65	<b>P1-32/V/SVB/N</b> 095825	
	3 + N	0	0	37	63	Surface mounting	IP65	<b>P3-63/I4/SVB/N</b> 207349	
	3 + N	0	0	37	63	Flush mounting	Front IP65	<b>P3-63/EA/SVB/N</b> 010398	
	3 + N	0	0	37	63	Rear mounting	Front IP65	<b>P3-63/V/SVB/N</b> 015144	
	3 + N	0	0	45	125	Flush mounting	Front IP65	<b>P5-125/EA/SVB/N</b> 280910	
	3 + N	0	0	45	125	Rear mounting	Front IP65	<b>P5-125/V/SVB/N</b> 280916	
	3 + N	0	0	50	100	Surface mounting	IP65	<b>P3-100/I5/SVB/N</b> 207379	
	3 + N	0	0	50	100	Flush mounting	Front IP65	<b>P3-100/EA/SVB/N</b> 019890	
	3 + N	0	0	50	100	Rear mounting	Front IP65	<b>P3-100/V/SVB/N</b> 024636	

Notes <sup>1)</sup> Enclosures with hard metric knock-outs

Rotary switches, switch-disconnectors



Contact sequence  
Front plate no.



Main conducting paths  
No. of poles



Auxiliary contacts



Max. motor rating

AC-23A  
400/415 V  
50-60 Hz

P

kW

Rated uninterrupted current

$I_u$

A

Design

Protection type

Part no.  
Article no.

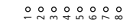
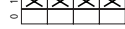
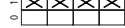
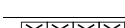
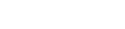
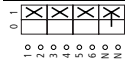
Price  
see price list

Std. pack

**Main switches, maintenance switches**

According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position

As Emergency-Stop device



**Notes**


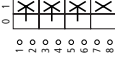

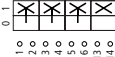
<sup>1)</sup> Rated uninterrupted current max. 95 A

Load current switches, main switches, maintenance/repair switches

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Moeller HPL0211-2007/2008

T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninter- rupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A 400/415 V 50-60 Hz						
	N/O	N/O	P	$I_u$					
			kW	A					
<b>Main switches, maintenance switches</b>									
According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position									
As Emergency-Stop device									
 1 2 3 4 5 6 7 8 9 10	3	1	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-15679/I1/SVB</b> 207149	1 off
	3	1	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-15679/EA/SVB</b> 081588	
	3	1	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-15679/V/SVB</b> 086334	
 1 2 3 4 5 6 7 8 9 10 11 12	3	1	0	45	125	Flush mounting	Front IP65	<b>P5-125/EA/SVB/HI10</b> 280899	
	3	1	0	45	125	Rear mounting	Front IP65	<b>P5-125/V/SVB/HI10</b> 280915	
	3	1	0	55	160	Flush mounting	Front IP65	<b>P5-160/EA/SVB/HI10</b> 280923	
	3	1	0	55	160	Rear mounting	Front IP65	<b>P5-160/V/SVB/HI10</b> 280929	
	3	1	0	90	250	Flush mounting	Front IP65	<b>P5-250/EA/SVB/HI10</b> 280937	
	3	1	0	90	250	Rear mounting	Front IP65	<b>P5-250/V/SVB/HI10</b> 280943	
	3	1	0	110	315	Flush mounting	Front IP65	<b>P5-315/EA/SVB/HI10</b> 280951	
	3	1	0	110	315	Rear mounting	Front IP65	<b>P5-315/V/SVB/HI10</b> 280957	
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	3	1	1	13	25	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-25/I2/SVB/HI11</b> 207297	
	3	1	1	13	25	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-25/I2H/SVB/HI11<sup>1)</sup></b> 226902	
	3	1	1	13	25	Flush mounting	Front IP65	<b>P1-25/EA/SVB/HI11</b> 091080	
	3	1	1	13	25	Rear mounting	Front IP65	<b>P1-25/V/SVB/HI11</b> 095826	
	3	1	1	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2/SVB/HI11</b> 207318	
	3	1	1	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2H/SVB/HI11<sup>1)</sup></b> 227870	
	3	1	1	15	32	Flush mounting	Front IP65	<b>P1-32/EA/SVB/HI11</b> 072567	
	3	1	1	15	32	Rear mounting	Front IP65	<b>P1-32/V/SVB/HI11</b> 015145	
	3	1	1	37	63	Surface mounting	IP65 <small>totally insulated</small>	<b>P3-63/I4/SVB/HI11</b> 207348	
	3	1	1	37	63	Flush mounting	Front IP65	<b>P3-63/EA/SVB/HI11</b> 019891	
	3	1	1	37	63	Rear mounting	Front IP65	<b>P3-63/V/SVB/HI11</b> 024637	
	3	1	1	50	100	Surface mounting	IP65 <small>totally insulated</small>	<b>P3-100/I5/SVB/HI11</b> 207378	
	3	1	1	50	100	Flush mounting	Front IP65	<b>P3-100/EA/SVB/HI11</b> 029383	
	3	1	1	50	100	Rear mounting	Front IP65	<b>P3-100/V/SVB/HI11</b> 034129	

Rotary switches, switch-disconnectors



Notes

<sup>1)</sup> Enclosures with hard metric knock-outs



Contact sequence  
Front plate no.



FS 908

Main conducting paths

No. of poles



Auxiliary contacts



Max. motor rating

AC-23A  
400/415 V  
50-60 Hz



Rated uninterrupted current

$I_u$   
A

Design

Protection type

Part no.  
Article no.

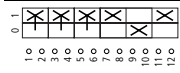
Price  
see price list

Std. pack

**Main switches, maintenance switches**

According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position

As Emergency-Stop device



3

2

1

6.5

20

Surface mounting

IP65

T0-3-15683/I1/SVB  
207157

1 off



3

2

1

6.5

20

Flush mounting

Front IP65

T0-3-15683/EA/SVB  
015571



3

2

1

6.5

20

Rear mounting

Front IP65

T0-3-15683/V/SVB  
015634



3

2

1

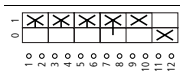
13

32

Surface mounting

IP65

T3-3-15683/I2/SVB  
207206



3 + N

1

1

6.5

20

Surface mounting

IP65

T0-3-15680/I1/SVB  
207153



3 + N

1

1

6.5

20

Flush mounting

Front IP65

T0-3-15680/EA/SVB  
038875



3 + N

1

1

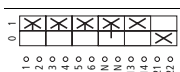
13

32

Surface mounting

IP65

T3-3-15680/I2/SVB  
207202



3 + N

1

1

13

32

Flush mounting

Front IP65

T3-3-15680/EA/SVB  
012002



3 + N

1

1

13

25

Flush mounting

Front IP65

P1-25/EA/SVB/N/HI11  
048367



3 + N

1

1

13

25

Rear mounting

Front IP65

P1-25/V/SVB/N/HI11  
053113



3 + N

1

1

15

32

Flush mounting

Front IP65

P1-32/EA/SVB/N/HI11  
057859



3 + N

1

1

15

32

Rear mounting

Front IP65

P1-32/V/SVB/N/HI11  
062605



3 + N

1

1

37

63

Surface mounting

IP65

P3-63/I4/SVB/N/HI11  
207350



3 + N

1

1

37

63

Flush mounting

Front IP65

P3-63/EA/SVB/N/HI11  
067351



3 + N

1

1

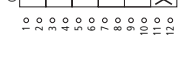
37

63

Rear mounting

Front IP65

P3-63/V/SVB/N/HI11  
072097



3 + N

1

1

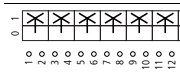
50

100

Surface mounting

IP65

P3-100/I5/SVB/N/HI11  
207380



3 + N

1

1

50

100

Flush mounting

Front IP65

P3-100/EA/SVB/N/HI11  
076843



3 + N

1

1

50

100

Rear mounting

Front IP65

P3-100/V/SVB/N/HI11  
081589



6

1

1

6.5

20

Surface mounting

IP65

T0-4-15682/I1/SVB  
207161



6

1

1

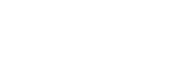
6.5

20

Flush mounting

Front IP65

T0-4-15682/EA/SVB  
019892



6

1

1

6.5

20

Rear mounting

Front IP65

T0-4-15682/V/SVB  
024638



6

1

1

13

32

Surface mounting

IP65

T3-4-15682/I2/SVB  
207210



6

1

1

13

32

Flush mounting

Front IP65

T3-4-15682/EA/SVB  
054716



6

1

1

13

32

Rear mounting

Front IP65


T3-4-15682/V/SVB  
059462

Load current switches, main switches, maintenance/repair switches

http://catalog.moeller.net

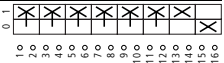
Moeller HPL0211-2007/2008

T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A 400/415 V 50-60 Hz						
	I N/O	I N/O L	P C kW	$I_u$ A					

**Main switches, maintenance switches**

According to IEC/EN 60204-1, VDE 0113 Part 1; with red rotary handle and yellow locking collar, lockable in 0 position  
As Emergency-Stop device

	6	1	1	30	100	Surface mounting	IP65 <small>totally insulated</small>	T5-4-15682/I5/SVB 207281	1 off
	6	1	1	30	100	Flush mounting	Front IP65	T5-4-15682/EA/SVB 207413	
	6	1	1	30	100	Rear mounting	Front IP65	T5-4-15682/V/SVB 207415	
	6	1	1	55	160	Rear mounting	Front IP65	T6-160-6/V/SVB/HI11 200619	
	6	1	1	55	160	Surface mounting	IP65 <small>totally insulated</small>	T6-160-6/I45/SVB/HI11 <sup>1)</sup> 201448	
	6	1	1	132	315	Rear mounting	Front IP65	T8-3-8342/V/SVB/HI11 <sup>2)</sup> 200620	
	6	1	1	132	315	Surface mounting	IP65 <small>totally insulated</small>	T8-3-8342/I48/SVB/HI11 <sup>2)3)</sup> 201450	

**Main switches, maintenance switches**

With black rotary handle and locking collar, lockable in the 0 position  
Without Emergency-Stop function

	1	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-1-8200/I1/SVB-SW 207146	1 off
	1	0	0	6.5	20	Flush mounting	Front IP65	T0-1-8200/EA/SVB-SW 055483	
	1	0	0	13	32	Surface mounting	IP65 <small>totally insulated</small>	T3-1-8200/I2/SVB-SW 207201	
	2	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-1-102/I1/SVB-SW 207144	
	2	0	0	6.5	20	Flush mounting	Front IP65	T0-1-102/EA/SVB-SW 093451	
	2	0	0	6.5	20	Rear mounting	Front IP65	T0-1-102/V/SVB-SW 022330	
	2	0	0	13	32	Surface mounting	IP65 <small>totally insulated</small>	T3-1-102/I2/SVB-SW 207199	
	2	0	0	13	32	Flush mounting	Front IP65	T3-1-102/EA/SVB-SW 016747	
	3	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-2-1/I1/SVB-SW 207148	
	3	0	0	6.5	20	Flush mounting	Front IP65	T0-2-1/EA/SVB-SW 041246	
	3	0	0	6.5	20	Rear mounting	Front IP65	T0-2-1/V/SVB-SW 045992	
	3	0	0	13	25	Surface mounting	IP65 <small>totally insulated</small>	P1-25/I2/SVB-SW 207294	
	3	0	0	13	25	Surface mounting	IP65 <small>totally insulated</small>	P1-25/I2H/SVB-SW <sup>4)</sup> 227861	
	3	0	0	13	25	Flush mounting	Front IP65	P1-25/EA/SVB-SW 048365	
	3	0	0	13	25	Rear mounting	Front IP65	P1-25/V/SVB-SW 050738	

**Notes**

- <sup>1)</sup> Enclosures without flanges with K95/1N/BR
- <sup>2)</sup> with KS4-CI and K150/1BR: Ingress protection IP64
- <sup>3)</sup> Rated uninterrupted current 315 A in enclosed version max. 275 A
- <sup>4)</sup> Enclosures with hard metric knock-outs

Rotary switches, switch-disconnectors







**xCommand T, P**

Moeller HPL0211-2007/2008






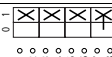

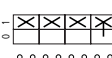





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Rotary switches, switch-disconnectors

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A 400/415 V 50-60 Hz						
	 N/O	 N/O	 N/IC	$P$ kW	$I_u$ A				

**Main switches, maintenance switches**

With black rotary handle and locking collar, lockable in the 0 position  
Without Emergency-Stop function

	3	0	0	15	32	Surface mounting	IP65 	<b>P1-32/I2/SVB-SW</b> 207315	1 off
	3	0	0	15	32	Surface mounting	IP65 	<b>P1-32/I2H/SVB-SW<sup>1)</sup></b> 227872	
	3	0	0	15	32	Flush mounting	Front IP65	<b>P1-32/EA/SVB-SW</b> 053111	
	3	0	0	15	32	Rear mounting	Front IP65	<b>P1-32/V/SVB-SW</b> 055484	
	3	0	0	37	63	Surface mounting	IP65 	<b>P3-63/I4/SVB-SW</b> 207344	
	3	0	0	37	63	Flush mounting	Front IP65	<b>P3-63/EA/SVB-SW</b> 057857	
	3	0	0	37	63	Rear mounting	Front IP65	<b>P3-63/V/SVB-SW</b> 060230	
	3	0	0	50	100	Surface mounting	IP65 	<b>P3-100/I5/SVB-SW</b> 207374	
	3	0	0	50	100	Flush mounting	Front IP65	<b>P3-100/EA/SVB-SW</b> 062603	
	3	0	0	50	100	Rear mounting	Front IP65	<b>P3-100/V/SVB-SW</b> 064976	
	3	0	0	45	125	Flush mounting	Front IP65	<b>P5-125/EA/SVB-SW</b> 280911	
	3	0	0	45	125	Rear mounting	Front IP65	<b>P5-125/V/SVB-SW</b> 280917	
	3	0	0	55	160	Flush mounting	Front IP65	<b>P5-160/EA/SVB-SW</b> 280925	
	3	0	0	55	160	Rear mounting	Front IP65	<b>P5-160/V/SVB-SW</b> 280931	
	3	0	0	90	250	Flush mounting	Front IP65	<b>P5-250/EA/SVB-SW</b> 280939	
	3	0	0	90	250	Rear mounting	Front IP65	<b>P5-250/V/SVB-SW</b> 280945	
	3	0	0	110	315	Flush mounting	Front IP65	<b>P5-315/EA/SVB-SW</b> 280953	
	3 + N	0	0	6.5	20	Surface mounting	IP65 	<b>T0-2-8900/I1/SVB-SW</b> 207152	
	3 + N	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-8900/EA/SVB-SW</b> 207401	
	3 + N	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-8900/V/SVB-SW</b> 207406	
	3 + N	0	0	13	25	Surface mounting	IP65 	<b>P1-25/I2/SVB-SW/N</b> 207296	
	3 + N	0	0	13	25	Surface mounting	IP65 	<b>P1-25/I2H/SVB-SW/N<sup>1)</sup></b> 227863	
	3 + N	0	0	13	25	Flush mounting	Front IP65	<b>P1-25/EA/SVB-SW/N</b> 083960	
	3 + N	0	0	13	25	Rear mounting	Front IP65	<b>P1-25/V/SVB-SW/N</b> 088706	
	3 + N	0	0	15	32	Surface mounting	IP65 	<b>P1-32/I2/SVB-SW/N</b> 207317	
	3 + N	0	0	15	32	Surface mounting	IP65 	<b>P1-32/I2H/SVB-SW/N<sup>1)</sup></b> 227874	
	3 + N	0	0	15	32	Flush mounting	Front IP65	<b>P1-32/EA/SVB-SW/N</b> 093452	
	3 + N	0	0	15	32	Rear mounting	Front IP65	<b>P1-32/V/SVB-SW/N</b> 098198	
	3 + N	0	0	37	63	Surface mounting	IP65 	<b>P3-63/I4/SVB-SW/N</b> 207346	
	3 + N	0	0	37	63	Flush mounting	Front IP65	<b>P3-63/EA/SVB-SW/N</b> 012771	
	3 + N	0	0	37	63	Rear mounting	Front IP65	<b>P3-63/V/SVB-SW/N</b> 017517	


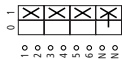

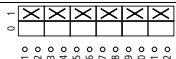




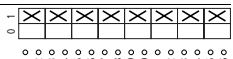




Notes <sup>1)</sup> Enclosures with hard metric knock-outs

Load current switches, main switches, maintenance/repair switches

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T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths No. of poles	Auxiliary contacts	Max. motor rating	Rated uninter- rupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908			AC-23A 400/415 V 50-60 Hz	$I_u$ A					
	$\backslash$ N/O	$\backslash$ N/O $\backslash$ L N/C	P kW						
<b>Main switches, maintenance switches</b>									
With black rotary handle and locking collar, lockable in the 0 position									
Without Emergency-Stop function									
	3 + N	0 0	50	100	Surface mounting	IP65 	<b>P3-100/I5/SVB-SW/N</b> 207376		1 off
	3 + N	0 0	50	100	Flush mounting	Front IP65	<b>P3-100/EA/SVB-SW/N</b> 022263		
	3 + N	0 0	50	100	Rear mounting	Front IP65	<b>P3-100/V/SVB-SW/N</b> 027009		
	3 + N	0 0	45	125	Flush mounting	Front IP65	<b>P5-125/EA/SVB-SW/N</b> 280913		
	3 + N	0 0	45	125	Rear mounting	Front IP65	<b>P5-125/V/SVB-SW/N</b> 280919		
	3 + N	0 0	55	160	Flush mounting	Front IP65	<b>P5-160/EA/SVB-SW/N</b> 280927		
	3 + N	0 0	55	160	Rear mounting	Front IP65	<b>P5-160/V/SVB-SW/N</b> 280933		
	3 + N	0 0	90	250	Flush mounting	Front IP65	<b>P5-250/EA/SVB-SW/N</b> 280941		
	3 + N	0 0	90	250	Rear mounting	Front IP65	<b>P5-250/V/SVB-SW/N</b> 280947		
	3 + N	0 0	110	315	Flush mounting	Front IP65	<b>P5-315/EA/SVB-SW/N</b> 280955		
	6	0 0	6.5	20	Surface mounting	IP65 	<b>T0-3-8342/I1/SVB-SW</b> 207160		
	6	0 0	6.5	20	Flush mounting	Front IP65	<b>T0-3-8342/EA/SVB-SW</b> 031755		
	6	0 0	6.5	20	Rear mounting	Front IP65	<b>T0-3-8342/V/SVB-SW</b> 036501		
	6	0 0	13	32	Surface mounting	IP65 	<b>T3-3-8342/I2/SVB-SW</b> 207209		
	6	0 0	13	32	Flush mounting	Front IP65	<b>T3-3-8342/EA/SVB-SW</b> 073699		
	6	0 0	13	32	Rear mounting	Front IP65	<b>T3-3-8342/V/SVB-SW</b> 078445		
	6	0 0	22	63	Surface mounting	IP65 	<b>T5B-3-8342/I4/SVB-SW</b> 207243		
	6	0 0	22	63	Flush mounting	Front IP65	<b>T5B-3-8342/EA/SVB-SW</b> 092307		
	6	0 0	22	63	Rear mounting	Front IP65	<b>T5B-3-8342/V/SVB-SW</b> 092299		
	6	0 0	30	100	Surface mounting	IP65 	<b>T5-3-8342/I5/SVB-SW</b> 207280		
	6	0 0	30	100	Flush mounting	Front IP65	<b>T5-3-8342/EA/SVB-SW</b> 096382		
	6	0 0	30	100	Rear mounting	Front IP65	<b>T5-3-8342/V/SVB-SW</b> 096380		
	8	0 0	6.5	20	Surface mounting	IP65 	<b>T0-4-8344/I1/SVB-SW</b> 207164		
	8	0 0	6.5	20	Flush mounting	Front IP65	<b>T0-4-8344/EA/SVB-SW</b> 008268		
	8	0 0	13	32	Surface mounting	IP65 	<b>T3-4-8344/I2/SVB-SW</b> 207213		
	8	0 0	13	32	Flush mounting	Front IP65	<b>T3-4-8344/EA/SVB-SW</b> 008965		
	8	0 0	13	32	Rear mounting	Front IP65	<b>T3-4-8344/V/SVB-SW</b> 008967		
	8	0 0	22	63	Surface mounting	IP65 	<b>T5B-4-8344/I4/SVB-SW</b> 207249		
	8	0 0	22	63	Flush mounting	Front IP65	<b>T5B-4-8344/EA/SVB-SW</b> 092061		
	8	0 0	30	100	Surface mounting	IP65 	<b>T5-4-8344/I5/SVB-SW<sup>1)</sup></b> 207284		

Notes <sup>1)</sup> Rated uninterrupted current max. 95 A

Rotary switches, switch-disconnectors






**xCommand** T, P

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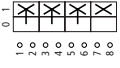







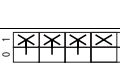














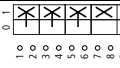



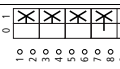


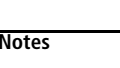



Rotary switches, switch-disconnectors

Contact sequence Front plate no.	Main conduct- ing paths	Auxiliary contacts	Max. motor rating	Rated uninter- rupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles I N/O	I N/O L N / C	AC-23A 400/415 V 50-60 Hz	$I_u$ A					

**Main switches, maintenance switches**

With black rotary handle and locking collar, lockable in the 0 position

Without Emergency-Stop function

	3	1	0	6.5	20	Surface mounting	IP65 	T0-2-15679/I1/SVB-SW 207150	1 off
	3	1	0	6.5	20	Flush mounting	Front IP65	T0-2-15679/EA/SVB-SW 083961	
	3	1	0	6.5	20	Rear mounting	Front IP65	T0-2-15679/V/SVB-SW 088707	
	3	1	0	45	125	Flush mounting	Front IP65	P5-125/EA/SVB-SW/HI10 280912	
	3	1	0	45	125	Rear mounting	Front IP65	P5-125/V/SVB-SW/HI10 280918	
	3	1	0	55	160	Flush mounting	Front IP65	P5-160/EA/SVB-SW/HI10 280926	
	3	1	0	55	160	Rear mounting	Front IP65	P5-160/V/SVB-SW/HI10 280932	
	3	1	0	90	250	Flush mounting	Front IP65	P5-250/EA/SVB-SW/HI10 280940	
	3	1	0	90	250	Rear mounting	Front IP65	P5-250/V/SVB-SW/HI10 280946	
	3	1	0	110	315	Rear mounting	Front IP65	P5-315/V/SVB-SW/HI10 280960	
	3	1	1	13	25	Surface mounting	IP65 	P1-25/I2/SVB-SW/HI11 207295	
	3	1	1	13	25	Surface mounting	IP65 	P1-25/I2H/SVB-SW/HI11 <sup>1)</sup> 227862	
	3	1	1	13	25	Flush mounting	Front IP65	P1-25/EA/SVB-SW/HI11 070194	
	3	1	1	13	25	Rear mounting	Front IP65	P1-25/V/SVB-SW/HI11 098199	
	3	1	1	15	32	Surface mounting	IP65 	P1-32/I2/SVB-SW/HI11 207316	
	3	1	1	15	32	Surface mounting	IP65 	P1-32/I2H/SVB-SW/HI11 <sup>1)</sup> 227873	
	3	1	1	15	32	Flush mounting	Front IP65	P1-32/EA/SVB-SW/HI11 012772	
	3	1	1	15	32	Rear mounting	Front IP65	P1-32/V/SVB-SW/HI11 017518	
	3	1	1	37	63	Surface mounting	IP65 	P3-63/I4/SVB-SW/HI11 207345	
	3	1	1	37	63	Flush mounting	Front IP65	P3-63/EA/SVB-SW/HI11 022264	
	3	1	1	37	63	Rear mounting	Front IP65	P3-63/V/SVB-SW/HI11 027010	
	3	1	1	50	100	Surface mounting	IP65 	P3-100/I5/SVB-SW/HI11 207375	
	3	1	1	50	100	Flush mounting	Front IP65	P3-100/EA/SVB-SW/HI11 031756	
	3	1	1	50	100	Rear mounting	Front IP65	P3-100/V/SVB-SW/HI11 036502	
	3	2	1	6.5	20	Surface mounting	IP65 	T0-3-15683/I1/SVB-SW 207158	
	3	2	1	6.5	20	Flush mounting	Front IP65	T0-3-15683/EA/SVB-SW 015600	
	3	2	1	13	32	Surface mounting	IP65 	T3-3-15683/I2/SVB-SW 207207	
	3	2	1	13	32	Flush mounting	Front IP65	T3-3-15683/EA/SVB-SW 042851	
	3 + N	1	1	6.5	20	Surface mounting	IP65 	T0-3-15680/I1/SVB-SW 207154	
	3 + N	1	1	6.5	20	Flush mounting	Front IP65	T0-3-15680/EA/SVB-SW 041248	
	3 + N	1	1	13	32	Surface mounting	IP65 	T3-3-15680/I2/SVB-SW 207203	


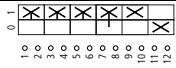


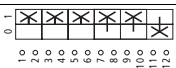



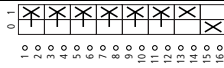






Notes <sup>1)</sup> Enclosures with hard metric knock-outs

Load current switches, main switches, maintenance/repair switches

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
T, P **xCommand**

Contact sequence Front plate no.	Main conduct- ing paths	Auxiliary contacts	Max. motor rating	Rated uninter- rupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A 400/415 V 50-60 Hz						
	I N/O	I N/O L	N/ P C kW	I <sub>u</sub> A					
<b>Main switches, maintenance switches</b>									
With black rotary handle and locking collar, lockable in the 0 position									
Without Emergency-Stop function									
	3 + N	1 1	13	25	Flush mounting	Front IP65	P1-25/EA/SVB-SW/N/HI11 050740		1 off
	3 + N	1 1	15	32	Flush mounting	Front IP65	P1-32/EA/SVB-SW/N/HI11 060232		
	3 + N	1 1	15	32	Rear mounting	Front IP65	P1-32/V/SVB-SW/N/HI11 064978		
	3 + N	1 1	37	63	Surface mounting	IP65 	P3-63/I4/SVB-SW/N/HI11 207347		
	3 + N	1 1	37	63	Flush mounting	Front IP65	P3-63/EA/SVB-SW/N/HI11 069724		
	3 + N	1 1	37	63	Rear mounting	Front IP65	P3-63/V/SVB-SW/N/HI11 074470		
	3 + N	1 1	50	100	Surface mounting	IP65 	P3-100/I5/SVB-SW/N/HI11 207377		
	3 + N	1 1	50	100	Flush mounting	Front IP65	P3-100/EA/SVB-SW/N/HI11 079216		
	3 + N	1 1	50	100	Rear mounting	Front IP65	P3-100/V/SVB-SW/N/HI11 083962		
	3 + N	1 1	6.5	20	Flush mounting	Front IP65	T0-3-8901/EA/SVB-SW 231933		
	3 + N	1 1	13	32	Surface mounting	IP65 	T3-3-8901/I2/SVB-SW 218988		
	3 + N	1 1	22	63	Surface mounting	IP65 	T5B-3-8901/I4/SVB-SW 207245		
	3 + N	1 1	22	63	Flush mounting	Front IP65	T5B-3-8901/EA/SVB-SW 207421		
	3 + N	1 1	30	100	Surface mounting	IP65 	T5-3-8901/I5/SVB-SW 207278		
	6	1 1	6.5	20	Surface mounting	IP65 	T0-4-15682/I1/SVB-SW 207162		
	6	1 1	6.5	20	Flush mounting	Front IP65	T0-4-15682/EA/SVB-SW 022265		
	6	1 1	6.5	20	Rear mounting	Front IP65	T0-4-15682/V/SVB-SW 027011		
	6	1 1	13	32	Surface mounting	IP65 	T3-4-15682/I2/SVB-SW 207211		
	6	1 1	13	32	Flush mounting	Front IP65	T3-4-15682/EA/SVB-SW 057089		
	6	1 1	13	32	Rear mounting	Front IP65	T3-4-15682/V/SVB-SW 061835		
	6	1 1	22	63	Surface mounting	IP65 	T5B-4-15682/I4/SVB-SW 207247		
	6	1 1	22	63	Flush mounting	Front IP65	T5B-4-15682/EA/SVB-SW 207426		
	6	1 1	22	63	Rear mounting	Front IP65	T5B-4-15682/V/SVB-SW 207428		
	6	1 1	30	100	Surface mounting	IP65 	T5-4-15682/I5/SVB-SW 207282		
	6	1 1	30	100	Flush mounting	Front IP65	T5-4-15682/EA/SVB-SW 207414		
	6	1 1	30	100	Rear mounting	Front IP65	T5-4-15682/V/SVB-SW 207416		
	6	1 1	55	160	Surface mounting	IP65 	T6-160-6/I45/SVB-SW/HI11 <sup>1)</sup> 201447		
	6	1 1	55	160	Rear mounting	Front IP65	T6-160-6/V/SVB-SW/HI11 200127		
	6	1 1	132	315	Surface mounting	IP65 	T8-3-8342/I48/SVB-SW/ HI11 <sup>2)3)</sup> 201449		
	6	1 1	132	315	Rear mounting	Front IP65	T8-3-8342/V/SVB-SW/HI11 <sup>3)</sup> 200128		

Notes  
 1) Enclosures without flanges with K95/1N/BR  
 2) with KS4-CI and K150/1/BR: IP64  
 3) Rated uninterrupted current 315 A in enclosed version max. 275 A

Rotary switches, switch-disconnectors









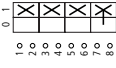


Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A	$I_u$					
			400/415 V 50-60 Hz	A					
	N/O 	N/O 	N/C 	P kW					

**On-Off switches**

As Emergency-Stop device

According to IEC/EN60204-1, VDE 113 Part 1 with red thumb grip and yellow front plate




	1	0	0	6.5	20	Flush mounting	Front IP65	T0-1-8200/E-RT 009474	1 off
	1	0	0	6.5	20	Distribution board mounting	Front IP30	T0-1-8200/IVS-RT 081956	
	2	0	0	6.5	20	Surface mounting	IP65 	T0-1-102/11-RT 207062	
	2	0	0	6.5	20	Flush mounting	Front IP65	T0-1-102/E-RT 009046	
	2	0	0	22	32	Flush mounting	Front IP65	T3-1-102/E-RT 016318	
	3	0	0	6.5	20	Surface mounting	IP65 	T0-2-1/11-RT 207082	
	3	0	0	6.5	20	Flush mounting	Front IP65	T0-2-1/E-RT 011082	
	3	0	0	6.5	20	Distribution board mounting	Front IP30	T0-2-1/IVS-RT 084329	
	3	0	0	13	25	Surface mounting	IP65 	P1-25/12-RT 207300	
	3	0	0	13	25	Flush mounting	Front IP65	P1-25/E-RT 002388	
	3	0	0	13	25	Distribution board mounting	Front IP30	P1-25/IVS-RT 013140	
	3	0	0	15	32	Flush mounting	Front IP65	P1-32/E-RT 003197	
	3	0	0	15	32	Distribution board mounting	Front IP30	P1-32/IVS-RT 022632	
	3	0	0	37	63	Flush mounting	Front IP65	P3-63/E-RT 005743	
	3	0	0	37	63	Distribution board mounting	Front IP30	P3-63/IVS-RT 045845	
	3	0	0	50	100	Surface mounting	IP65 	P3-100/15-RT 207382	
	3	0	0	50	100	Flush mounting	Front IP65	P3-100/E-RT 007189	
	3	0	0	50	100	Distribution board mounting	Front IP30	P3-100/IVS-RT 086185	
	3 + N	0	0	6.5	20	Flush mounting	Front IP65	T0-2-8900/E-RT 207399	

Load current switches, ON/OFF switches

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Moeller HPL0211-2007/2008

T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths No. of poles	Auxiliary contacts	Max. motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninter- rupted current I <sub>u</sub> A	Design	Protection type	Part no. Article no.	Std. pack
	I N/O	I N/O L N/C						
<b>On-Off switches with black thumb grip and front plate</b>								
<b>Without auxiliary contacts</b>								
	1	0	0	6.5	20	Surface mounting IP65	<b>T0-1-8200/I1</b> 207074	1 off
	1	0	0	6.5	20	Flush mounting Front IP65	<b>T0-1-8200/E</b> 067352	
	1	0	0	6.5	20	Distribution board mounting Front IP30	<b>T0-1-8200/IVS</b> 074471	
	1	0	0	6.5	20	Centre mounting Front IP65	<b>T0-1-8200/EZ</b> 069725	
	1	0	0	6.5	20	Rear mounting Front IP65	<b>T0-1-8200/Z</b> 076844	
	1	0	0	13	32	Flush mounting Front IP65	<b>T3-1-8200/E</b> 064208	
	1	0	0	13	32	Surface mounting IP65	<b>T3-1-8200/I2</b> 207167	
	1	0	0	13	32	Centre mounting Front IP65	<b>T3-1-8200/EZ</b> 066581	
	1	0	0	22	63	Flush mounting Front IP65	<b>T5B-1-8200/E</b> 094281	
	2	0	0	6.5	20	Surface mounting IP65	<b>T0-1-102/I1</b> 207061	
	2	0	0	6.5	20	Flush mounting Front IP65	<b>T0-1-102/E</b> 088709	
	2	0	0	6.5	20	Distribution board mounting Front IP30	<b>T0-1-102/IVS</b> 015147	
	2	0	0	6.5	20	Centre mounting Front IP65	<b>T0-1-102/EZ</b> 091082	
	2	0	0	6.5	20	Rear mounting Front IP65	<b>T0-1-102/Z</b> 095828	
	2	0	0	22	32	Surface mounting IP65	<b>T3-1-102/I2</b> 207165	
	2	0	0	22	32	Flush mounting Front IP65	<b>T3-1-102/E</b> 076073	
	2	0	0	22	32	Centre mounting Front IP65	<b>T3-1-102/EZ</b> 078446	
	2	0	0	22	32	Rear mounting Front IP65	<b>T3-1-102/Z</b> 083192	
	2	0	0	22	63	Flush mounting Front IP65	<b>T5B-1-102/E</b> 094471	
	3	0	0	6.5	20	Surface mounting IP65	<b>T0-2-1/I1</b> 207081	
	3	0	0	6.5	20	Flush mounting Front IP65	<b>T0-2-1/E</b> 024639	
	3	0	0	6.5	20	Distribution board mounting Front IP30	<b>T0-2-1/IVS</b> 031758	
	3	0	0	6.5	20	Centre mounting Front IP65	<b>T0-2-1/EZ</b> 027012	
	3	0	0	6.5	20	Rear mounting Front IP65	<b>T0-2-1/Z</b> 036504	
	3	0	0	13	25	Surface mounting IP65	<b>P1-25/I2</b> 207299	
	3	0	0	13	25	Surface mounting IP65	<b>P1-25/I2H<sup>1)</sup></b> 226898	
	3	0	0	13	25	Flush mounting Front IP65	<b>P1-25/E</b> 038724	
	3	0	0	13	25	Distribution board mounting Front IP30	<b>P1-25/IVS</b> 052962	
	3	0	0	13	25	Centre mounting Front IP65	<b>P1-25/EZ</b> 041250	
	3	0	0	13	25	Rear mounting Front IP65	<b>P1-25/Z</b> 057708	

Notes

<sup>1)</sup> Enclosures with hard metric knock-outs

Rotary switches, switch-disconnectors





# Ordering




## Load current switches, ON/OFF switches

**xCommand** T, P

Moeller HPL0211-2007/2008

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Rotary switches, switch-disconnectors

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Std. pack
 FS 908	No. of poles		AC-23A					
			400/415 V 50-60 Hz					
				$I_u$ A				

**On-Off switches**

with black thumb grip and front plate

Without auxiliary contacts

	3	0	0	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2</b> 207320	1off
	3	0	0	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2H<sup>1)</sup></b> 227866	
	3	0	0	15	32	Flush mounting	Front IP65	<b>P1-32/E</b> 079065	
	3	0	0	15	32	Distribution board mounting	Front IP30	<b>P1-32/IVS</b> 093303	
	3	0	0	15	32	Centre mounting	Front IP65	<b>P1-32/EZ</b> 048369	
	3	0	0	15	32	Rear mounting	Front IP65	<b>P1-32/Z</b> 098049	
	3	0	0	37	63	Surface mounting	IP65 <small>totally insulated</small>	<b>P3-63/I4</b> 207356	
	3	0	0	37	63	Flush mounting	Front IP65	<b>P3-63/E</b> 026861	
	3	0	0	37	63	Distribution board mounting	Front IP30	<b>P3-63/IVS</b> 041099	
	3	0	0	37	63	Rear mounting	Front IP65	<b>P3-63/Z</b> 050591	
	3	0	0	45	125	Flush mounting	Front IP65	<b>P5-125/E</b> 280897	
	3	0	0	45	125	Rear mounting	Front IP65	<b>P5-125/Z</b> 280920	
	3	0	0	50	100	Surface mounting	IP65 <small>totally insulated</small>	<b>P3-100/I5</b> 207381	
	3	0	0	50	100	Flush mounting	Front IP65	<b>P3-100/E</b> 067201	
	3	0	0	50	100	Distribution board mounting	Front IP30	<b>P3-100/IVS</b> 081439	
	3	0	0	50	100	Rear mounting	Front IP65	<b>P3-100/Z</b> 090931	
	3	0	0	55	160	Flush mounting	Front IP65	<b>P5-160/E</b> 280921	
	3	0	0	55	160	Rear mounting	Front IP65	<b>P5-160/Z</b> 280934	
	3	0	0	90	250	Flush mounting	Front IP65	<b>P5-250/E</b> 280935	
	3	0	0	90	250	Rear mounting	Front IP65	<b>P5-250/Z</b> 280948	
	3	0	0	110	315	Flush mounting	Front IP65	<b>P5-315/E</b> 280949	
	3	0	0	110	315	Rear mounting	Front IP65	<b>P5-315/Z</b> 280962	
	3 + N	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-8900/I1</b> 207109	
	3 + N	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-8900/E</b> 207398	
	3 + N	0	0	6.5	20	Distribution board mounting	Front IP30	<b>T0-2-8900/IVS</b> 207403	
	3 + N	0	0	6.5	20	Centre mounting	Front IP65	<b>T0-2-8900/EZ</b> 207402	
	3 + N	0	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-8900/Z</b> 207407	

Notes


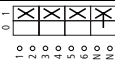
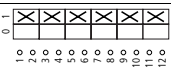
<sup>1)</sup> Enclosures with hard metric knock-outs

Load current switches, ON/OFF switches

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Moeller HPL0211-2007/2008


T, P **xCommand**

Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninter- rupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A						
	I N/O	I N/O	L N/C	400/415 V 50-60 Hz P kW	$I_u$ A				
<b>On-Off switches</b>									
with black thumb grip and front plate									
Without auxiliary contacts									
	3 + N	0	0	13	25	Surface mounting IP65 <small>totally insulated</small>	P1-25/I2/N 207303		1off
	3 + N	0	0	13	25	Surface mounting IP65 <small>totally insulated</small>	P1-25/I2H/N <sup>1)</sup> 226901		
	3 + N	0	0	13	25	Flush mounting Front IP65	P1-25/E/N 076845		
	3 + N	0	0	13	25	Distribution board mounting Front IP30	P1-25/IVS/N 083964		
	3 + N	0	0	13	25	Centre mounting Front IP65	P1-25/EZ/N 079218		
	3 + N	0	0	13	25	Rear mounting Front IP65	P1-25/Z/N 088710		
	3 + N	0	0	15	32	Surface mounting IP65 <small>totally insulated</small>	P1-32/I2/N 207324		
	3 + N	0	0	15	32	Surface mounting IP65 <small>totally insulated</small>	P1-32/I2H/N <sup>1)</sup> 227869		
	3 + N	0	0	15	32	Flush mounting Front IP65	P1-32/E/N 093456		
	3 + N	0	0	15	32	Distribution board mounting Front IP30	P1-32/IVS/N 010402		
	3 + N	0	0	15	32	Centre mounting Front IP65	P1-32/EZ/N 095829		
	3 + N	0	0	15	32	Rear mounting Front IP65	P1-32/Z/N 015148		
	3 + N	0	0	37	63	Surface mounting IP65 <small>totally insulated</small>	P3-63/I4/N 207360		
	3 + N	0	0	37	63	Flush mounting Front IP65	P3-63/E/N 019894		
	3 + N	0	0	37	63	Distribution board mounting Front IP30	P3-63/IVS/N 022267		
	3 + N	0	0	37	63	Rear mounting Front IP65	P3-63/Z/N 027013		
	3 + N	0	0	50	100	Surface mounting IP65 <small>totally insulated</small>	P3-100/I5/N 207385		
	3 + N	0	0	50	100	Flush mounting Front IP65	P3-100/E/N 031759		
	3 + N	0	0	50	100	Distribution board mounting Front IP30	P3-100/IVS/N 034132		
	3 + N	0	0	50	100	Rear mounting Front IP65	P3-100/Z/N 038878		
	6	0	0	6.5	20	Surface mounting IP65 <small>totally insulated</small>	T0-3-8342/I1 207131		
	6	0	0	6.5	20	Flush mounting Front IP65	T0-3-8342/E 043624		
	6	0	0	6.5	20	Distribution board mounting Front IP30	T0-3-8342/IVS 050743		
	6	0	0	6.5	20	Centre mounting Front IP65	T0-3-8342/EZ 045997		
	6	0	0	6.5	20	Rear mounting Front IP65	T0-3-8342/Z 055489		
	6	0	0	22	32	Surface mounting IP65 <small>totally insulated</small>	T3-3-8342/I2 207187		
	6	0	0	22	32	Flush mounting Front IP65	T3-3-8342/E 045225		
	6	0	0	22	63	Surface mounting IP65 <small>totally insulated</small>	T5B-3-8342/I4 207226		
	6	0	0	22	63	Flush mounting Front IP65	T5B-3-8342/E 092310		

Notes <sup>1)</sup> Enclosures with hard metric knock-outs

Rotary switches, switch-disconnectors

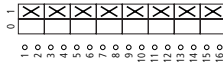


Contact sequence Front plate no.	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
 FS 908	No. of poles		AC-23A						
			400/415 V 50-60 Hz						
	N/O	N/O N/C	P kW	$I_u$ A					

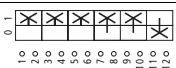
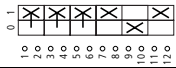
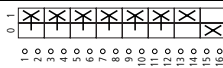
**On-Off switches**

with black thumb grip and front plate

Without auxiliary contacts

	8	0	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-4-8344/I1</b> 207139	1 off
	8	0	0	6.5	20	Flush mounting	Front IP65	<b>T0-4-8344/E</b> 014000	
	8	0	0	6.5	20	Distribution board mounting	Front IP30	<b>T0-4-8344/IVS</b> 014006	
	8	0	0	6.5	20	Centre mounting	Front IP65	<b>T0-4-8344/EZ</b> 014002	
	8	0	0	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-4-8344/I4</b> 207233	

With auxiliary contacts

	3	1	0	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-15679/I1</b> 207094	1 off
	3	1	0	6.5	20	Flush mounting	Front IP65	<b>T0-2-15679/E</b> 029387	
	3	1	0	6.5	20	Distribution board mounting	Front IP30	<b>T0-2-15679/IVS</b> 036506	
	3	1	0	6.5	20	Rear mounting	Front IP65	<b>T0-2-15679/Z</b> 041252	
	3	1	1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-3-8901/I1</b> 231941	
	3	1	1	6.5	20	Flush mounting	Front IP65	<b>T0-3-8901/E</b> 231938	
	3	1	1	13	25	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-25/I2H/HI11<sup>1)</sup></b> 226899	
	3	1	1	15	32	Surface mounting	IP65 <small>totally insulated</small>	<b>P1-32/I2H/HI11<sup>1)</sup></b> 227867	
	3	2	1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-3-15683/I1</b> 207118	
	6	1	1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-4-15682/I1</b> 207135	
	6	1	1	6.5	20	Flush mounting	Front IP65	<b>T0-4-15682/E</b> 010405	
	6	1	1	22	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-4-15682/I2</b> 207190	
	6	1	1	22	32	Flush mounting	Front IP65	<b>T3-4-15682/E</b> 023869	
	6	1	1	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-4-15682/I4</b> 207229	
	6	1	1	22	63	Flush mounting	Front IP65	<b>T5B-4-15682/E</b> 207424	
	6	1	1	22	63	Rear mounting	Front IP65	<b>T5B-4-15682/Z</b> 207429	
	6	1	1	30	100	Surface mounting	IP65 <small>totally insulated</small>	<b>T5-4-15682/I5</b> 207269	

**Notes**




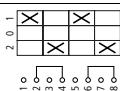

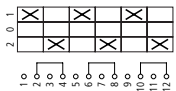

<sup>1)</sup> Enclosures with hard metric knock-outs

Load current switches, changeover switches

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Moeller HPL0211-2007/2008

T0, T3, T5(B), T6, T8 **xCommand**

Contact sequence	Front plate no.	Main conducting paths	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
		No. of poles	AC-23A						
		N/O	400/415 V 50-60 Hz	$I_u$					
			P	A					
			kW						
<b>Changeover switches</b>									
With black thumb-grip and grey front plate									
With 0 (Off) position									
Group switches, mains transfer switches									
	 FS 684	1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-1-8210/I1</b> 207076		1 off
		1	6.5	20	Flush mounting	Front IP65	<b>T0-1-8210/E</b> 012742		
		1	6.5	20	Distribution board mounting	Front IP30	<b>T0-1-8210/IVS</b> 074440		
		1	6.5	20	Centre mounting	Front IP65	<b>T0-1-8210/EZ</b> 048337		
		1	13	32	Flush mounting	Front IP65	<b>T3-1-8210/E</b> 054718		
		1	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-1-8210/I4</b> 207432		
		1	22	63	Flush mounting	Front IP65	<b>T5B-1-8210/E</b> 094261		
		1	22	63	Rear mounting	Front IP65	<b>T5B-1-8210/Z</b> 094258		
	 FS 684	2	6.5	20	Surface mounting	IP65	<b>T0-2-8211/I1</b> 207102		
		2	6.5	20	Flush mounting	Front IP65	<b>T0-2-8211/E</b> 022234		
		2	6.5	20	Distribution board mounting	Front IP30	<b>T0-2-8211/IVS</b> 076813		
		2	6.5	20	Centre mounting	Front IP65	<b>T0-2-8211/EZ</b> 053083		
		2	13	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-2-8211/I2</b> 207178		
		2	13	32	Flush mounting	Front IP65	<b>T3-2-8211/E</b> 061837		
		2	13	32	Centre mounting	Front IP65	<b>T3-2-8211/EZ</b> 003075		
		2	13	32	Rear mounting	Front IP65	<b>T3-2-8211/Z</b> 064210		
		2	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-2-8211/I4</b> 207220		
		2	22	63	Flush mounting	Front IP65	<b>T5B-2-8211/E</b> 093094		
		2	22	63	Rear mounting	Front IP65	<b>T5B-2-8211/Z</b> 093082		
			 FS 684	3	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	
3	6.5			20	Flush mounting	Front IP65	<b>T0-3-8212/E</b> 029353		
3	6.5			20	Distribution board mounting	Front IP30	<b>T0-3-8212/IVS</b> 079186		
3	6.5			20	Centre mounting	Front IP65	<b>T0-3-8212/EZ</b> 057829		
3	6.5			20	Rear mounting	Front IP65	<b>T0-3-8212/Z</b> 036473		

Rotary switches, switch-disconnectors



# Ordering

## Load current switches, changeover switches

**xCommand** T0, T3, T5(B), T6, T8

Moeller HPL0211-2007/2008

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Rotary switches, switch-disconnectors

Contact sequence	Front plate no.	Main conducting paths No. of poles	Max. motor rating AC-23A 400/415 V 50-60 Hz	Rated uninterrupted current $I_u$	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
		N/O	P	A					
			kW	A					

### Changeover switches

With black thumb-grip and grey front plate

With 0 (Off) position

Group switches, mains transfer switches

		3	13	32	Surface mounting	IP65 <small>totally insulated</small>	T3-3-8212/I2 207183		1 off
	FS 684	3	13	32	Flush mounting	Front IP65	T3-3-8212/E 068956		
		3	13	32	Centre mounting	Front IP65	T3-3-8212/EZ 003080		
		3	13	32	Rear mounting	Front IP65	T3-3-8212/Z 071329		
		3	22	63	Surface mounting	IP65 <small>totally insulated</small>	T5B-3-8212/I4 207223		
		3	22	63	Flush mounting	Front IP65	T5B-3-8212/E 092386		
		3	22	63	Rear mounting	Front IP65	T5B-3-8212/Z 092383		
		3	30	100	Flush mounting	Front IP65	T5-3-8212/E 096466		
		3	30	100	Surface mounting	IP65 <small>totally insulated</small>	T5-3-8212/I5 207266		
		3	30	100	Rear mounting	Front IP65	T5-3-8212/Z 096464		
		3	45	125	Flush mounting	Front IP65	T6-3-8212/E/HI12 214781		
		3	132	315	Flush mounting	Front IP65	T8-3-8212/E/HI12 214782		
		4	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-4-8213/I1 207136		
		4	6.5	20	Flush mounting	Front IP65	T0-4-8213/E 031726		
		4	6.5	20	Distribution board mounting	Front IP30	T0-4-8213/IVS 081559		
		4	6.5	20	Centre mounting	Front IP65	T0-4-8213/EZ 062575		
		4	6.5	20	Rear mounting	Front IP65	T0-4-8213/Z 043592		
		4	13	32	Surface mounting	IP65 <small>totally insulated</small>	T3-4-8213/I2 207191		
		4	13	32	Flush mounting	Front IP65	T3-4-8213/E 076075		
		4	13	32	Rear mounting	Front IP65	T3-4-8213/Z 078448		
		4	22	63	Surface mounting	IP65 <small>totally insulated</small>	T5B-4-8213/I4 207230		
		4	22	63	Flush mounting	Front IP65	T5B-4-8213/E 092112		
		4	22	63	Rear mounting	Front IP65	T5B-4-8213/Z 092109		
		4	30	100	Surface mounting	IP65 <small>totally insulated</small>	T5-4-8213/I5 207270		
		4	30	100	Flush mounting	Front IP65	T5-4-8213/E 096014		
		4	30	100	Rear mounting	Front IP65	T5-4-8213/Z 096012		

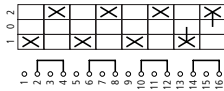





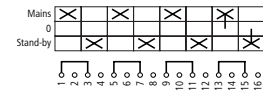






Load current switches, changeover switches

http://catalog.moeller.net

Moeller HPL0211-2007/2008

T0, T3, T5(B), T6, T8 **xCommand**

Contact sequence	Front plate no.	Main conducting paths No. of poles	Max. motor rating AC-23A 400/415 V 50-60 Hz N/O P	Rated uninterrupted current $I_u$ kW A	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Changeover switches</b>									
With black thumb-grip and grey front plate									
With 0 (Off) position									
<b>Group switches, mains transfer switches</b>									
	 FS 953	4	6.5	20	Surface mounting	IP65 	<b>T0-4-8294/I1</b> 207138		1 off
		4	6.5	20	Flush mounting	Front IP65	<b>T0-4-8294/E</b> 010371		
		4	6.5	20	Distribution board mounting	Front IP30	<b>T0-4-8294/IVS</b> 043594		
		4	13	32	Surface mounting	IP65 	<b>T3-4-8294/I2</b> 207193		
		4	13	32	Flush mounting	Front IP65	<b>T3-4-8294/E</b> 002513		
		4	13	32	Rear mounting	Front IP65	<b>T3-4-8294/Z</b> 004886		
		4	22	63	Surface mounting	IP65 	<b>T5B-4-8294/I4</b> 207232		
		4	22	63	Flush mounting	Front IP65	<b>T5B-4-8294/E</b> 092084		
		4	22	63	Rear mounting	Front IP65	<b>T5B-4-8294/Z</b> 092081		
		4	30	100	Surface mounting	IP65 	<b>T5-4-8294/I5</b> 207433		
	 FS 161629	4	13	32	Flush mounting	Front IP65	<b>T3-4-8902/E</b> 215222		
		4	13	32	Flush mounting	Front IP65	<b>T3-4-8902/EZ</b> 215223		
		4	13	32	Flush mounting	IP65 	<b>T3-4-8902/I2</b> 215224		
		4	13	32	Flush mounting	Front IP65	<b>T3-4-8902/Z</b> 215225		
		4	22	63	Flush mounting	Front IP65	<b>T5B-4-8902/E</b> 207430		
		4	22	63	Surface mounting	IP65 	<b>T5B-4-8902/I4</b> 207237		
		4	22	63	Rear mounting	Front IP65	<b>T5B-4-8902/Z</b> 207431		
		4	30	100	Flush mounting	Front IP65	<b>T5-4-8902/E</b> 207418		
		4	30	100	Surface mounting	IP65 	<b>T5-4-8902/I5</b> 207214		
		4	30	100	Rear mounting	Front IP65	<b>T5-4-8902/Z</b> 207419		

Rotary switches, switch-disconnectors



# Ordering

## Load current switches, changeover switches

**xCommand** T0, T3, T5(B), T6, T8

Moeller HPL0211-2007/2008

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Rotary switches, switch-disconnectors








Contact sequence	Front plate no.	Main conducting paths No. of poles	Max. motor rating AC-23A 400/415 V 50-60 Hz N/O P	Rated uninter- rupted current $I_u$ A	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
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**Changeover switches**

With black thumb-grip and grey front plate






With 0 (Off) position

With spring-return from both directions to 0

		1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-1-8214/I1</b> 207077		1 off
	FS 4011	1	6.5	20	Flush mounting	Front IP65	<b>T0-1-8214/E</b> 019863		
		1	6.5	20	Distribution board mounting	Front IP30	<b>T0-1-8214/IVS</b> 045967		
		1	6.5	20	Centre mounting	Front IP65	<b>T0-1-8214/EZ</b> 076815		
		1	6.5	20	Rear mounting	Front IP65	<b>T0-1-8214/Z</b> 050720		
		2	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-8215/I1</b> 207103		
		2	6.5	20	Flush mounting	Front IP65	<b>T0-2-8215/E</b> 022236		
		2	6.5	20	Distribution board mounting	Front IP30	<b>T0-2-8215/IVS</b> 048340		
		2	6.5	20	Centre mounting	Front IP65	<b>T0-2-8215/EZ</b> 081561		
		3	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-3-8216/I1</b> 207434		
		3	6.5	20	Flush mounting	Front IP65	<b>T0-3-8216/E</b> 024609		
		3	6.5	20	Centre mounting	Front IP65	<b>T0-3-8216/EZ</b> 086307		
		3	13	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-3-8216/I2</b> 207184		
		3	13	32	Flush mounting	Front IP65	<b>T3-3-8216/E</b> 023870		

Without 0 (Off) position

Changeover switches

		1	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-1-8220/I1</b> 207078		1 off
	FS 943	1	6.5	20	Flush mounting	Front IP65	<b>T0-1-8220/E</b> 031728		
		1	6.5	20	Distribution board mounting	Front IP30	<b>T0-1-8220/IVS</b> 055459		
		1	6.5	20	Centre mounting	Front IP65	<b>T0-1-8220/EZ</b> 095799		
		1	6.5	20	Rear mounting	Front IP65	<b>T0-1-8220/Z</b> 086312		
		2	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-8221/I1</b> 207104		
		2	6.5	20	Flush mounting	Front IP65	<b>T0-2-8221/E</b> 038847		
		2	6.5	20	Distribution board mounting	Front IP30	<b>T0-2-8221/IVS</b> 057832		
		2	6.5	20	Centre mounting	Front IP65	<b>T0-2-8221/EZ</b> 010372		
		2	22	32	Surface mounting	IP65 <small>totally insulated</small>	<b>T3-2-8221/I2</b> 207180		
		2	22	32	Flush mounting	Front IP65	<b>T3-2-8221/E</b> 045227		
		2	22	63	Surface mounting	IP65 <small>totally insulated</small>	<b>T5B-2-8221/I4</b> 207221		
		2	22	63	Flush mounting	Front IP65	<b>T5B-2-8221/E</b> 093047		


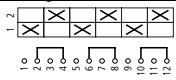
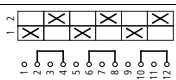
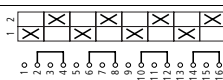
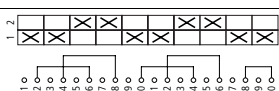
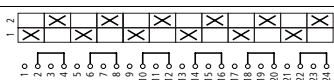
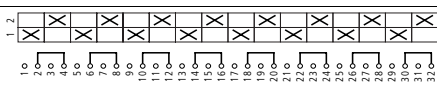
Load current switches, changeover switches

http://catalog.moeller.net

Moeller HPL0211-2007/2008

T0, T3, T5(B), T6, T8

xCommand

Contact sequence Front plate no.	Main conducting paths	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack	
 FS 943	No. of poles 1 N/O	AC-23A 400/415 V 50-60 Hz P kW	$I_u$ A						
<b>Changeover switches</b>									
with black thumb grip and front plate Without 0 (Off) position Changeover switches									
	3	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-3-8222/I1 207124		1	
	3	6.5	20	Flush mounting	Front IP65	T0-3-8222/E 048339			
	3	6.5	20	Distribution board mounting	Front IP30	T0-3-8222/IVS 060205			
	3	6.5	20	Centre mounting	Front IP65	T0-3-8222/EZ 015118			
	3	13	32	Flush mounting	Front IP65	T3-3-8222/E 052346			
	3	22	32	Surface mounting	IP65 <small>totally insulated</small>	T3-3-8222/I2 207185			
	3	22	63	Surface mounting	IP65 <small>totally insulated</small>	T5B-3-8222/I4 207224			
	3	22	63	Flush mounting	Front IP65	T5B-3-8222/E 092378			
	3	22	63	Rear mounting	Front IP65	T5B-3-8222/Z 092375			
		4	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-4-8223/I1 207137		
4		6.5	20	Flush mounting	Front IP65	T0-4-8223/E 050712			
4		6.5	20	Distribution board mounting	Front IP30	T0-4-8223/IVS 062578			
4		6.5	20	Centre mounting	Front IP65	T0-4-8223/EZ 019864			
4		6.5	20	Rear mounting	Front IP65	T0-4-8223/Z 086315			
4		13	32	Surface mounting	IP65 <small>totally insulated</small>	T3-4-8223/I2 207192			
4		13	32	Flush mounting	Front IP65	T3-4-8223/E 059465			
4		13	32	Rear mounting	Front IP65	T3-4-8223/Z 061838			
4		22	63	Surface mounting	IP65 <small>totally insulated</small>	T5B-4-8223/I4 207231			
4		22	63	Flush mounting	Front IP65	T5B-4-8223/E 092108			
4		22	63	Rear mounting	Front IP65	T5B-4-8223/Z 092105			
		5	6.5	20	Flush mounting	Front IP65	T0-5-8369/E 060204		
		5	22	32	Surface mounting	IP65 <small>totally insulated</small>	T3-5-8369/I2 207536		
		5	22	32	Flush mounting	Front IP65	T3-5-8369/E 066584		
	6	6.5	20	Flush mounting	Front IP65	T0-6-8370/E 062577			
	6	6.5	20	Distribution board mounting	Front IP30	T0-6-8370/IVS 067324			
	6	6.5	20	Centre mounting	Front IP65	T0-6-8370/EZ 029356			
	6	22	32	Flush mounting	Front IP65	T3-6-8370/E 073703			
	8	6.5	20	Flush mounting	Front IP65	T0-8-8372/E 064950			
	8	6.5	20	Distribution board mounting	Front IP30	T0-8-8372/IVS 069697			
	8	22	32	Flush mounting	Front IP65	T3-8-8372/E 080822			

Rotary switches, switch-disconnectors



# Ordering





## Load-current switch - Safety switch

**xCommand** P1, P3, T5(B)

Moeller HPL0211-2007/2008

<http://catalog.moeller.net>

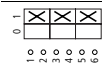


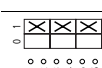


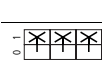




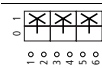

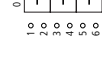
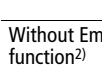
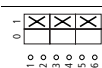
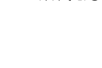
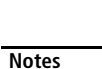
Rotary switches, switch-disconnectors

Contact sequence	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Part no. Article no.	Price see price list	Std. pack
Front plate no.	No. of poles		AC-23A					
			400/415 V 50-60 Hz					
FS 908	N/O	N/O	N/C	P	$I_u$			
				kW	A			

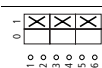
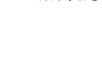
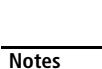
**Safety switches with warning label**

 Totally insulated

For use as Emergency-Stop device<sup>1)</sup>





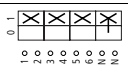
	3	0	0	13	25	Surface mounting IP65	<b>P1-25/I2-SI</b> 207308	1 off
	3	0	0	15	32		<b>P1-32/I2-SI</b> 207329	1 off
	3	0	0	37	63		<b>P3-63/I4-SI</b> 207361	1 off
	3	0	0	50	100		<b>P3-100/I5-SI</b> 207386	1 off
	3 + N	0	0	13	25		<b>P1-25/I2-SI/N</b> 207312	1 off
	3 + N	0	0	15	32		<b>P1-32/I2-SI/N</b> 207333	1 off
	3 + N	0	0	37	63		<b>P3-63/I4-SI/N</b> 207365	1 off
	3 + N	0	0	50	100		<b>P3-100/I5-SI/N</b> 207390	1 off
	3	1	1	13	25		<b>P1-25/I2-SI/HI11</b> 207310	1 off
	3	1	1	15	32		<b>P1-32/I2-SI/HI11</b> 207331	1 off
	3	1	1	37	63		<b>P3-63/I4-SI/HI11</b> 207363	1 off
	3	1	1	50	100		<b>P3-100/I5-SI/HI11</b> 207388	1 off
	6	0	0	22	63	<b>T5B-3-8342/I4-SI</b> 207250	1 off	
	6	0	0	30	100	<b>T5-3-8342/I5-SI</b> 207447	1 off	
	6	1	1	22	63	<b>T5B-4-15682/I4-SI</b> 207254	1 off	
	6	1	1	30	100	<b>T5-4-15682/I5-SI</b> 207285	1 off	
	6	2	0	22	63	<b>T5B-4-8903/I4-SI</b> 207258	1 off	
	6	2	0	30	100	<b>T5-4-8903/I5-SI</b> 207289	1 off	

**Without Emergency-Stop function<sup>2)</sup>**

	3	0	0	13	25	Surface mounting IP65	<b>P1-25/I2-SI-SW</b> 207309	1 off
	3	0	0	15	32		<b>P1-32/I2-SI-SW</b> 207330	1 off
	3	0	0	37	63		<b>P3-63/I4-SI-SW</b> 207362	1 off

**Notes**

- <sup>1)</sup> According to IEC/EN 60204-1, VDE 0113 Part 1
- <sup>2)</sup> With black rotary handle and locking ring

Contact sequence	Main conducting paths	Auxiliary contacts	Max. motor rating	Rated uninterrupted current	Design	Part no. Article no.	Price see price list	Std. pack
Front plate no.  FS 908	No. of poles		AC-23A 400/415 V 50-60 Hz					
	N/O	N/O	N/C	P	$I_u$			
				kW	A			
<b>Without Emergency-Stop function</b>								
	3 + N	0	0	13	25	Surface mounting IP65		1 off
	3 + N	0	0	15	32		P1-25/I2-SI/N-SW 207313	1 off
	3 + N	0	0	50	100		P1-32/I2-SI/N-SW 207334	1 off
	3	1	1	13	25		P3-100/I5-SI/N-SW 207391	1 off
	3	1	1	15	32		P1-25/I2-SI/II11-SW 207311	1 off
	3	1	1	15	32		P1-32/I2-SI/II11-SW 207332	1 off
	3	1	1	37	63		P3-63/I4-SI/II11-SW 207364	1 off
	3	1	1	50	100		P3-100/I5-SI/II11-SW 207389	1 off
	6	0	0	22	63		T5B-3-8342/I4-SI-SW 207251	1 off
	6	1	1	22	63		T5B-4-15682/I4-SI-SW 207255	1 off
	6	1	1	30	100	T5-4-15682/I5-SI-SW 207286	1 off	
	6	2	0	30	100	T5-4-8903/I5-SI-SW 207290	1 off	

**Engineering**

Maintenance, repair and safety switches all have the same electrical function. They are designed to safely isolate electrical installations (loads) from mains power during maintenance and repair work and to ensure that a hazard does not arise which endangers personnel, machinery and production materials. Safety switches are main switches with an additional enclosure. Installed in the immediate vicinity of the motor or the electrical load they act as switch-disconnectors for that load. It makes possible work without danger according to DIN EN 50110/VDE 0105. This is particularly important if there is any danger of the main switch being inadvertently operated.

**Application**

By securing the switch in the OFF position with his own padlock (up to 3 can be fitted), the fitter/electrician can protect himself against the possibility of any other person switching the machine on. Maintenance switches are merely additional, enclosed main switches with a padlocking facility.  
 Enclosed main switch with padlock interlock  
 → 7/10  
 → 7/30

**Features**

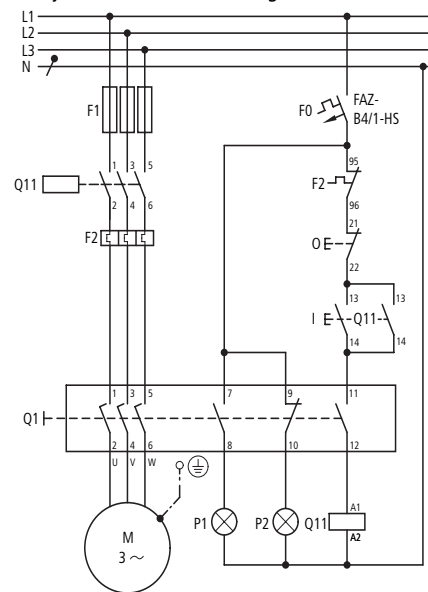
- Safety switches are housed in insulated enclosures and bear the inscription "Safety switch" on a bright orange label.
- With special red handle and yellow locking ring for Emergency\_Stop use according to STOP category O IEC/EN 60204/VDE 0113.
- If the switch is not usable for Emergency\_Stop both parts are black (partno. suffix "SW")
- The cover and handle can be interlocked by fitting a padlock.

**Selection**

- Switches must be selected according to the following criteria:
- 1) according to motor switching capacity, when the switch is fitted in so that the operator may use it for operational ON and OFF switching.
  - 2) The rating data always applies for 3 poles. When the motor rating is divided between 6 poles, such as for star-delta starting, a 6-pole switch can be used to control 1.73 times the rated power.
  - 3) If the switch has a load-shedding contact (LA), you can select the appropriate switch according to the uninterrupted current. The load-shedding contact is an auxiliary contact, which is closed in the ON position and opens early when switching off, so that a contactor located in the circuit takes over the switching capacity and the maintenance/safety switch operates at zero load. When switching on, the load-shedding contact closes later than or at the same time as the main contacts. With P and T switches this is the N/O auxiliary contact.

4) The "ON" position can be locked using a padlock (after altering the handle) This is not permissible for switches with red/yellow handles.

**Example:**  
Safety switch with load shedding and annunciation





# Ordering

## Load current switch - reversing switch

xCommand

T0, T3, T5B

Moeller HPL0211-2007/2008

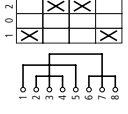

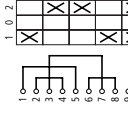

<http://catalog.moeller.net>

Contact sequence	Front plate no.	Main conducting paths	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
		No. of poles N/O	AC-23A 400/415 V 50-60 Hz P kW	$I_u$ A					

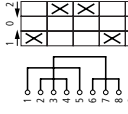

**Reversing switches with 0 (Off) position**

with black thumb grip and front plate

Without spring-return

  FS 684	2	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-2-8400/I1 207111		1 off
				Flush mounting	Front IP65	T0-2-8400/E 053079		
				Distribution board mounting	Front IP30	T0-2-8400/IVS 060198		
				Surface mounting	IP65 <small>totally insulated</small>	T3-2-8400/I2 207181		
				Flush mounting	Front IP65	T3-2-8400/E 073695		
				Surface mounting	IP65 <small>totally insulated</small>	T5B-2-8400/I4 207222		
				Flush mounting	Front IP65	T5B-2-8400/E 092918		
  FS 684	3	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-3-8401/I1 207132		1 off
				Flush mounting	Front IP65	T0-3-8401/E 091047		
				Distribution board mounting	Front IP30	T0-3-8401/IVS 098166		
				Centre mounting	Front IP65	T0-3-8401/EZ 093420		
				Rear mounting	Front IP65	T0-3-8401/Z 010366		
				Surface mounting	IP65 <small>totally insulated</small>	T3-3-8401/I2 207188		
				Flush mounting	Front IP65	T3-3-8401/E 030992		
				Centre mounting	Front IP65	T3-3-8401/EZ 000694		
				Rear mounting	Front IP65	T3-3-8401/Z 035739		
				Surface mounting	IP65 <small>totally insulated</small>	T5B-3-8401/I4 207227		
				Flush mounting	Front IP65	T5B-3-8401/E 092296		
				Rear mounting	Front IP65	T5B-3-8401/Z 092293		

**With spring-return from both directions to 0**

  FS 4011	3	6.5	20	Surface mounting	IP65 <small>totally insulated</small>	T0-3-8228/I1 207125		1 off
				Flush mounting	Front IP65	T0-3-8228/E 015112		
				Centre mounting	Front IP65	T0-3-8228/EZ 048334		
				Surface mounting	IP65 <small>totally insulated</small>	T3-3-8228/I2 207186		1 off

Load current switches, (reversing) star-delta switches, (reversing) multi-speed switches

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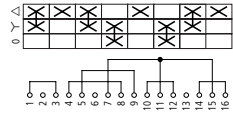
Moeller HPL0211-2007/2008

T0, T3, T5(B) **xCommand**

Contact sequence	Front plate no.	Main conducting paths No. of poles N/O	Max. motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninter-rupted current $I_u$ A	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
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**Star-delta switches**

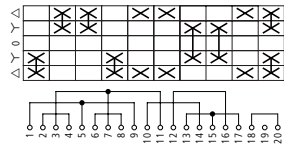
with black thumb grip and front plate



3	6.5	20	Surface mounting	IP65	T0-4-8410/11 207140	1 off
			Flush mounting	Front IP65	T0-4-8410/E 024604	
			Distribution board mounting	Front IP30	T0-4-8410/IVS 064945	
			Centre mounting	Front IP65	T0-4-8410/EZ 053080	
			Rear mounting	Front IP65	T0-4-8410/Z 083929	
22	22	32	Surface mounting	IP65	T3-4-8410/12 207195	
			Flush mounting	Front IP65	T3-4-8410/E 009657	
			Centre mounting	Front IP65	T3-4-8410/EZ 000721	
			Rear mounting	Front IP65	T3-4-8410/Z 012030	
63	63	63	Surface mounting	IP65	T5B-4-8410/14 207234	
			Flush mounting	Front IP65	T5B-4-8410/E 092052	

**Reversing Star-delta switches**

with black thumb grip and front plate  
Two-way switches

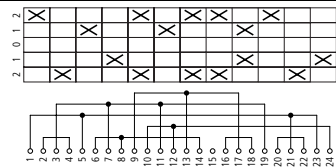


3	6.5	20	Flush mounting	Front IP65	T0-5-15876/E 000893	1 off		
			22	32	Surface mounting		IP65	T3-5-15876/12 207537
					Flush mounting		Front IP65	T3-5-15876/E 016776
63	63	63	Rear mounting	Front IP65	T3-5-15876/Z 019149			
			Flush mounting	Front IP65	T5B-5-15876/E 214785			
			Flush mounting	Front IP65	T5B-5-15876/Z 214786			

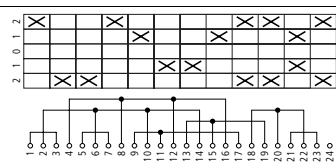
**Reversing multi-speed switches**

with black thumb grip and front plate

Two-speed, two directions, for one tapped winding



3	6.5	20	Flush mounting	Front IP65	T0-6-15866/E 055460	1 off		
			22	32	Centre mounting		Front IP65	T0-6-15866/EZ 012747
					Rear mounting		Front IP65	T0-6-15866/Z 067326
			Flush mounting	Front IP65	T3-6-15866/E 054744			




3	22	63	Flush mounting	Front IP65	T5B-7-15866/E 214788	1 off
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Rotary switches, switch-disconnectors



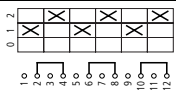

Rotary switches, switch-disconnectors

Contact sequence	Front plate no.	Main conducting paths No. of poles	Max. motor rating AC-23A  400/415 V 50-60 Hz	Rated uninterrupted current  $I_u$	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
		N/O	P	A					
			kW	A					

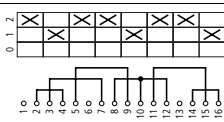

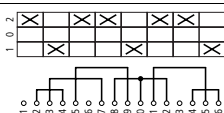

**Multi-speed switches**

with black thumb grip and front plate

Two-speed, non reversing, for 2 separate windings

  FS 644	3	6.5	20	Surface mounting	IP65	<b>T0-3-8451/I1</b> 207133		1 off		
				Flush mounting	Front IP65	<b>T0-3-8451/E</b> 038849				
				Distribution board mounting	Front IP30	<b>T0-3-8451/IVS</b> 026985				
				Centre mounting	Front IP65	<b>T0-3-8451/EZ</b> 083936				
				Surface mounting	IP65	<b>T3-3-8451/I2</b> 207189				
				Flush mounting	Front IP65	<b>T3-3-8451/E</b> 028641				
				22	32	Surface mounting			IP65	<b>T3-3-8451/I2</b> 207189
						Flush mounting			Front IP65	<b>T3-3-8451/E</b> 028641

2-speed, 1 directions, for tapped winding

  FS 644	3	6.5	20	Surface mounting	IP65	<b>T0-4-8440/I1</b> 207141		1 off						
				Flush mounting	Front IP65	<b>T0-4-8440/E</b> 041222								
				Distribution board mounting	Front IP30	<b>T0-4-8440/IVS</b> 029358								
				Centre mounting	Front IP65	<b>T0-4-8440/EZ</b> 088682								
				Rear mounting	Front IP65	<b>T0-4-8440/Z</b> 048342								
				22	32	Surface mounting			IP65	<b>T3-4-8440/I2</b> 207196				
						Flush mounting			Front IP65	<b>T3-4-8440/E</b> 035760				
					63	Flush mounting			Front IP65	<b>T5B-4-8440/E</b> 092032				
				  FS 684	3	6.5			20	Surface mounting	IP65	<b>T0-4-8441/I1</b> 207142		1 off
										Flush mounting	Front IP65	<b>T0-4-8441/E</b> 043595		
Distribution board mounting	Front IP30	<b>T0-4-8441/IVS</b> 031731												
Surface mounting	IP65	<b>T3-4-8441/I2</b> 207197												
Flush mounting	Front IP65	<b>T3-4-8441/E</b> 042879												
63	Rear mounting	Front IP65	<b>T5B-4-8441/Z</b> 092025											

Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Step switches</b>							
With black thumb-grip and grey front plate One contact closed per step (without overlap)							
<b>With 0 (Off) position</b>							
		1	Surface mounting	IP 65 <small>totally insulated</small>	<b>T0-1-8240/I1</b> 207079		
			Flush mounting	Front IP 65	<b>T0-1-8240/E</b> 034105		
			Centre mounting	Front IP 65	<b>T0-1-8240/EZ</b> 043597		
		1	Surface mounting	IP 65 <small>totally insulated</small>	<b>T0-2-8241/I1</b> 207107		
			Flush mounting	Front IP 65	<b>T0-2-8241/E</b> 050716		
			Distribution board mounting	Front IP 30	<b>T0-2-8241/IVS</b> 057835		
			Centre mounting	Front IP 65	<b>T0-2-8241/EZ</b> 053089		
		1	Surface mounting	IP 65 <small>totally insulated</small>	<b>T0-2-8242/I1</b> 207108		
			Flush mounting	Front IP 65	<b>T0-2-8242/E</b> 067327		
			Distribution board mounting	Front IP 30	<b>T0-2-8242/IVS</b> 074446		
			Centre mounting	Front IP 65	<b>T0-2-8242/EZ</b> 069700		
		1	Surface mounting	IP 65 <small>totally insulated</small>	<b>T0-3-8243/I1</b> 207128		
			Flush mounting	Front IP 65	<b>T0-3-8243/E</b> 081565		
			Distribution board mounting	Front IP 30	<b>T0-3-8243/IVS</b> 088684		
			Centre mounting	Front IP 65	<b>T0-3-8243/EZ</b> 083938		
		1	Flush mounting	Front IP 65	<b>T0-3-8244/E</b> 095803		
			Distribution board mounting	Front IP 30	<b>T0-3-8244/IVS</b> 012749		
			Centre mounting	Front IP 65	<b>T0-3-8244/EZ</b> 098176		
		3	Surface mounting	IP 65 <small>totally insulated</small>	<b>T0-3-8280/I1</b> 207130		
			Flush mounting	Front IP 65	<b>T0-3-8280/E</b> 034106		
			Centre mounting	Front IP 65	<b>T0-3-8280/EZ</b> 036479		
		3	Flush mounting	Front IP 65	<b>T0-5-8281/E</b> 048344		
			Distribution board mounting	Front IP 30	<b>T0-5-8281/IVS</b> 055463		
			Centre mounting	Front IP 65	<b>T0-5-8281/EZ</b> 050717		
			Rear mounting	Front IP 65	<b>T0-5-8281/Z</b> 057836		
		3	Flush mounting	Front IP 65	<b>T0-6-8282/E</b> 062582		
			Distribution board mounting	Front IP 30	<b>T0-6-8282/IVS</b> 069701		
			Centre mounting	Front IP 65	<b>T0-6-8282/EZ</b> 064955		



Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Step switches</b>							
With black thumb-grip and grey front plate One contact closed per step (without overlap)							
Without 0 (Off) position							
	 FS 943	1	Surface mounting	IP65 	<b>T0-1-8220/I1</b> 207078		1 off
		1	Flush mounting	Front IP65	<b>T0-1-8220/E</b> 031728		1 off
		1	Distribution board mounting	Front IP30	<b>T0-1-8220/IVS</b> 055459		1 off
		1	Centre mounting	Front IP65	<b>T0-1-8220/EZ</b> 095799		1 off
		1	Rear mounting	Front IP65	<b>T0-1-8220/Z</b> 086312		1 off
	 FS 404	1	Surface mounting	IP 65 	<b>T0-2-8230/I1</b> 207105		1 off
		1	Flush mounting	Front IP 65	<b>T0-2-8230/E</b> 088685		1 off
		1	Distribution board mounting	Front IP 30	<b>T0-2-8230/IVS</b> 095804		1 off
		1	Centre mounting	Front IP 65	<b>T0-2-8230/EZ</b> 091058		1 off
	 FS 606	1	Surface mounting	IP 65 	<b>T0-2-8231/I1</b> 207106		1 off
		1	Flush mounting	Front IP 65	<b>T0-2-8231/E</b> 012750		1 off
		1	Distribution board mounting	Front IP 30	<b>T0-2-8231/IVS</b> 019869		1 off
		1	Centre mounting	Front IP 65	<b>T0-2-8231/EZ</b> 015123		1 off
		1	Flush mounting	Front IP 65	<b>T0-3-8232/E</b> 026988		1 off
	 FS 408	1	Distribution board mounting	Front IP 30	<b>T0-3-8232/IVS</b> 034107		1 off
		1	Centre mounting	Front IP 65	<b>T0-3-8232/EZ</b> 029361		1 off
		1	Flush mounting	Front IP 65	<b>T0-3-8233/I1</b> 207127		1 off
	 FS 410	1	Flush mounting	Front IP 65	<b>T0-3-8233/E</b> 041226		1 off
		1	Distribution board mounting	Front IP 30	<b>T0-3-8233/IVS</b> 048345		1 off
		1	Centre mounting	Front IP 65	<b>T0-3-8233/EZ</b> 043599		1 off
		2	Flush mounting	Front IP 65	<b>T0-4-8251/E</b> 013971		1 off
	 FS 406	2	Centre mounting	Front IP 65	<b>T0-4-8251/EZ</b> 013972		1 off
		3	Surface mounting	IP65 	<b>T0-3-8222/I1</b> 207124		1 off
	 FS 943	3	Flush mounting	Front IP65	<b>T0-3-8222/E</b> 048339		1 off
		3	Distribution board mounting	Front IP30	<b>T0-3-8222/IVS</b> 060205		1 off
		3	Centre mounting	Front IP65	<b>T0-3-8222/EZ</b> 015118		1 off
		3	Flush mounting	Front IP 65	<b>T0-5-8270/E</b> 091059		1 off
	 FS 404	3	Distribution board mounting	Front IP 30	<b>T0-5-8270/IVS</b> 098178		1 off
		3	Centre mounting	Front IP 65	<b>T0-5-8270/EZ</b> 093432		1 off
		3	Flush mounting	Front IP 65	<b>T0-6-8271/E</b> 015124		1 off
	 FS 406	3	Centre mounting	Front IP 65	<b>T0-6-8271/EZ</b> 017497		1 off



Control switch, ON-OFF switches, changeover switches, Hand/Auto switches

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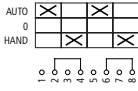

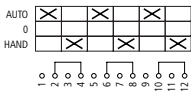



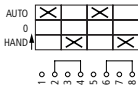

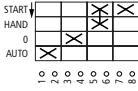



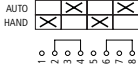

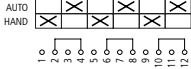

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Rotary switches, switch-disconnectors

Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>On-Off switches</b>							
With black thumb-grip and grey front plate One contact closed per step (without overlap)							
		1	Flush mounting	Front IP 65	T0-1-15401/E 038854		1 off
		1	Centre mounting	Front IP 65	T0-1-15401/EZ 041227		1 off
		1	Surface mounting	IP 65 <small>totally insulated</small>	T0-1-15401/I1 207067		1 off
		1	Distribution board mounting	Front IP30	T0-1-15401/IVS 045973		1 off
		2	Flush mounting	Front IP 65	T0-1-15402/E 053092		1 off
		2	Centre mounting	Front IP 65	T0-1-15402/EZ 055465		1 off
		2	Surface mounting	IP 65 <small>totally insulated</small>	T0-1-15402/I1 207068		1 off
		3	Distribution board mounting	Front IP30	T0-1-15402/IVS 060211		1 off
		3	Flush mounting	Front IP 65	T0-2-15403/E 067330		1 off
		3	Centre mounting	Front IP 65	T0-2-15403/EZ 069703		1 off
		3	Distribution board mounting	Front IP30	T0-2-15403/IVS 074449		1 off
		4	Flush mounting	Front IP 65	T0-2-15404/E 081568		1 off
		4	Centre mounting	Front IP 65	T0-2-15404/EZ 083941		1 off
<b>Changeover switches</b>							
With black thumb-grip and grey front plate One contact closed per step (without overlap)							
		1	Flush mounting	Front IP 65	T0-1-15421/E 095806		1 off
		1	Centre mounting	Front IP 65	T0-1-15421/EZ 098179		1 off
		1	Surface mounting	IP 65 <small>totally insulated</small>	T0-1-15421/I1 207069		1 off
		1	Distribution board mounting	Front IP30	T0-1-15421/IVS 012752		1 off
		2	Flush mounting	Front IP 65	T0-2-15422/E 019871		1 off
		2	Distribution board mounting	Front IP30	T0-2-15422/IVS 026990		1 off
		2	Centre mounting	Front IP 65	T0-2-15422/EZ 022244		1 off
		2	Rear mounting	Front IP 65	T0-2-15422/Z 029363		1 off
		3	Surface mounting	IP 65 <small>totally insulated</small>	T0-3-15423/I1 207114		1 off
		3	Flush mounting	Front IP 65	T0-3-15423/E 034109		1 off
<b>Hand/Auto switches</b>							
With 0 (Off) position Without spring-return							
		1	Surface mounting	IP65 <small>totally insulated</small>	T0-1-15431/I1 207070		1 off
			Flush mounting	Front IP 65	T0-1-15431/E 019872		
			Distribution board mounting	IP65	T0-1-15431/IVS 026991		
			Centre mounting	Front IP 65	T0-1-15431/EZ 022245		
			Rear mounting	Front IP 65	T0-1-15431/Z 029364		

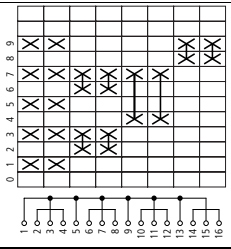



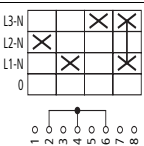

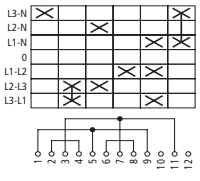

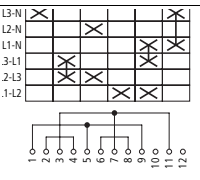

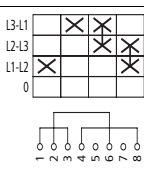

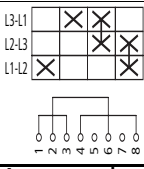

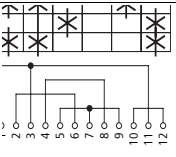






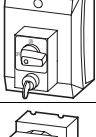
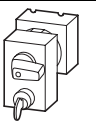
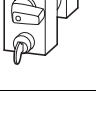



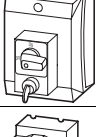

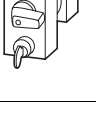



Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Hand/Auto switches</b>							
<b>With 0 (Off) position</b>							
Without spring-return 	 FS 1401	2	Surface mounting	IP65 <small>totally insulated</small>	T0-2-15432/I1 207091		1 off
			Flush mounting	Front IP 65	T0-2-15432/E 034110		
			Distribution board mounting	IP65	T0-2-15432/IVS 041229		
			Centre mounting	Front IP 65	T0-2-15432/EZ 036483		
			Rear mounting	Front IP 65	T0-2-15432/Z 043602		
	 FS 1401	3	Surface mounting	IP65 <small>totally insulated</small>	T0-3-15433/I1 207115		1 off
			Flush mounting	Front IP 65	T0-3-15433/E 048348		
			Distribution board mounting	IP65	T0-3-15433/IVS 055467		
			Centre mounting	Front IP 65	T0-3-15433/EZ 050721		
			Rear mounting	Front IP 65	T0-3-15433/Z 057840		
With spring-return from HAND 	 FS 1414000	1	Surface mounting	IP65 <small>totally insulated</small>	T0-1-15434/I1 207071		1 off
			Flush mounting	Front IP 65	T0-1-15434/E 062586		
			Centre mounting	Front IP 65	T0-1-15434/EZ 018053		
	 FS 1414000	2	Layout	IP65 <small>totally insulated</small>	T0-2-15435/I1 218971		1 off
			Flush mounting	Front IP 65	T0-2-15435/E 003191		
With spring-return from START 	 FS 1413890	1	Surface mounting	IP65 <small>totally insulated</small>	T0-2-15907/I1 207095		1 off
			Flush mounting	Front IP65	T0-2-15907/E 066931		
			Centre mounting	Front IP65	T0-2-15907/EZ 069304		
			Rear mounting	Front IP65	T0-2-15907/Z 078796		
<b>Without 0 (Off) position</b>							
Without spring-return 	 FS 19334	1	Surface mounting	IP65 <small>totally insulated</small>	T0-1-15451/I1 207072		1 off
			Flush mounting	Front IP65	T0-1-15451/E 076824		
			Distribution board mounting	Front IP30	T0-1-15451/IVS 083943		
			Centre mounting	Front IP65	T0-1-15451/EZ 079197		
			Rear mounting	Front IP65	T0-1-15451/Z 086316		
	 FS 19334	2	Flush mounting	Front IP65	T0-2-15452/E 091062		1 off
			Distribution board mounting	Front IP30	T0-2-15452/IVS 098181		
			Centre mounting	Front IP65	T0-2-15452/EZ 093435		
	 FS 19334	3	Flush mounting	Front IP65	T0-3-15453/E 015127		1 off
			Distribution board mounting	Front IP30	T0-3-15453/IVS 022246		
			Centre mounting	Front IP65	T0-3-15453/EZ 017500		
			Rear mounting	Front IP65	T0-3-15453/Z 024619		

Contact sequence	Front plate no.	Pole	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>On switches</b>							
with black thumb grip and front plate							
ON spring-return switches (make contact)							
Spring-return in position 1							
		1	Flush mounting	Front IP65	<b>T0-1-15321/E</b> 086317		1 off
			Centre mounting	Front IP65	<b>T0-1-15321/EZ</b> 088690		
		2	Flush mounting	Front IP65	<b>T0-1-15322/E</b> 010382		
		3	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-15323/I1</b> 207087		
			Flush mounting	Front IP65	<b>T0-2-15323/E</b> 024620		
On-Off spring-return switches							
Spring-return in positions 0 and 1							
		1	Flush mounting	Front IP65	<b>T0-1-15366/E</b> 081572		
			Centre mounting	Front IP65	<b>T0-1-15366/EZ</b> 083945		
ON-OFF spring-return switch							
Spring-return in START position							
		1	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-1-15511/I1</b> 207073		
			Flush mounting	Front IP65	<b>T0-1-15511/E</b> 019875		
			Centre mounting	Front IP65	<b>T0-1-15511/EZ</b> 022248		
			Rear mounting	Front IP65	<b>T0-1-15511/Z</b> 029367		
		2	Surface mounting	IP65 <small>totally insulated</small>	<b>T0-2-15512/I1</b> 207093		
			Flush mounting	Front IP65	<b>T0-2-15512/E</b> 034113		
			Centre mounting	Front IP65	<b>T0-2-15512/EZ</b> 036486		
		see K 115	Flush mounting	Front IP65	<b>T0-2-8177/E</b> 015130		
			Centre mounting	Front IP65	<b>T0-2-8177/EZ</b> 017503		
			Rear mounting	Front IP65	<b>T0-2-8177/Z</b> 024622		
<b>Universal control switches</b>							
With black thumb-grip and grey front plate							
<ul style="list-style-type: none"> <li>• 1 contact closed in each position</li> <li>• Additionally 1 contact closed in position 0 and 1</li> <li>• Additionally 1 contact closed in position 0 and 2</li> <li>• Additionally 1 contact closed in position 0 and 3</li> </ul>							
Stay-put switches with 3 positions							
			Flush mounting	Front IP65	<b>T0-3-15391/E</b> 029365		1 off
			Centre mounting	Front IP65	<b>T0-3-15391/EZ</b> 031738		
Spring-return from positions 1 and 2							
			Flush mounting	Front IP65	<b>T0-3-15394/E</b> 072079		
			Distribution board mounting	Front IP30	<b>T0-3-15394/IVS</b> 079198		
			Centre mounting	Front IP65	<b>T0-3-15394/EZ</b> 074452		

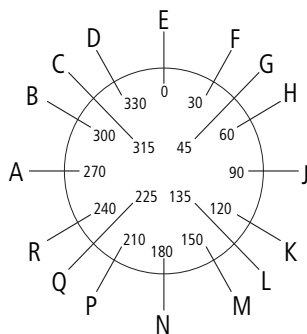
Rotary switches, switch-disconnectors



Contact sequence	Front plate no.	Pole	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Coding switches</b>							
With black thumb-grip and grey front plate With complete rotation in both directions							
	 <p>FS 312</p>	Dual BCD CODE	Flush mounting	Front IP65	<b>T0-4-15602/E</b> 029368		1 off
			Centre mounting	Front IP65	<b>T0-4-15602/EZ</b> 031741		
<b>Series switches</b>							
With black thumb-grip and grey front plate With 0 (Off) position (heater switches)							
	 <p>FS 614</p>	1	Flush mounting	Front IP65	<b>T0-1-91/E</b> 072082		
<b>Voltmeter selector switches</b>							
With black thumb-grip and grey front plate							
	 <p>FS 1410757</p>	3 × phase to N with 0 (Off) position	Flush mounting	Front IP65	<b>T0-2-15921/E</b> 067337		1 off
	 <p>FS 1410759</p>	3 × phase to phase + 3 × phase to N with 0 (Off) position	Flush mounting	Front IP65	<b>T0-3-8007/E</b> 095813		1 off
			Distribution board mounting	Front IP30	<b>T0-3-8007/IVS</b> 012759		
			Centre mounting	Front IP65	<b>T0-3-8007/EZ</b> 098186		
			Rear mounting	Front IP65	<b>T0-3-8007/Z</b> 015132		
	 <p>FS 164721</p>	3 × phase to phase + 3 × phase to N Without 0 position with complete rotation in both directions	Flush mounting	Front IP65	<b>T0-3-15924/E</b> 019878		1 off
			Distribution board mounting	Front IP30	<b>T0-3-15924/IVS</b> 026997		
			Centre mounting	Front IP65	<b>T0-3-15924/EZ</b> 022251		
	 <p>FS 1410755</p>	3 × phase to phase with 0 (Off) position	Flush mounting	Front IP65	<b>T0-2-15920/E</b> 038861		1 off
			Distribution board mounting	Front IP30	<b>T0-2-15920/IVS</b> 029452		
			Centre mounting	Front IP65	<b>T0-2-15920/EZ</b> 041234		
			Rear mounting	Front IP65	<b>T0-2-15920/Z</b> 048353		
	 <p>FS 164854</p>	3 × phase to phase without 0 (Off) position	Flush mounting	Front IP65	<b>T0-2-15922/E</b> 053099		1 off
			Centre mounting	Front IP65	<b>T0-2-15922/EZ</b> 055472		
<b>Ammeter selector switches</b>							
With black thumb-grip and grey front plate With complete rotation in both directions Measurement via current transformers							
	 <p>FS 9440</p>	With 0 (Off) position	Flush mounting	Front IP65	<b>T0-3-8048/E</b> 034116		1 off
			Distribution board mounting	Front IP30	<b>T0-3-8048/IVS</b> 041235		
			Centre mounting	Front IP65	<b>T0-3-8048/EZ</b> 036489		

Contact sequence	Front plate no.	No. of poles	Max. motor rating	Rated uninterrupted current	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
			AC-23A 400/415 V 50-60 Hz						
			P	$I_u$					
			kW	A					
<b>Panic switch</b>									
Cylinder lock SVA Key withdrawable in position 0 and 1 If the key is withdrawn in position 1 the switch can be switched off but not on again without the key.									
With Emergency-Stop function According to IEC/EN 60204-1, VDE 0113 Part1 with red thumb-grip and yellow front plate									
  FS 908 GE	3	6.5	20	 Layout	IP65	T0-2-1/I1/SVA(S)-RT 207085		1 off	
	3	13	25						 Layout
		3	6.5	20	 Flush mounting	IP65	T0-2-1/E/SVA(S)-RT 228291		1 off
		3	15	32	 Flush mounting	IP65	P1-32/E/SVA(S)-RT 050971		1 off
Without Emergency-Stop function with black thumb grip and front plate									
  FS 908	3	6.5	20	 Layout	IP65	T0-2-1/I1/SVA(S) 207084		1 off	
	3	13	25						 Layout
		3	6.5	20	 Flush mounting	IP65	T0-2-1/E/SVA(S) 050977		1 off
		3	15	32	 Flush mounting	IP65	P1-32/E/SVA(S) 044977		1 off
Padlocking feature SVC Interlocking slide with lock lockable in positions 0 and 1 If the interlocking slide is interlocked with lock in position 1 the switch can be switched off but not on again without removing the lock. Lockable with max. 3 padlocks.									
With Emergency-Stop function According to IEC/EN 60204-1, VDE 0113 Part1 with red thumb-grip and yellow front plate									
  FS 908 GE	3	6.5	20	 Layout	IP65	T0-2-1/I1/SVC(S)-RT 207086		1 off	

**Notes**



Code letters for lockable switch positions  
Letter S for panic lock with FS908GE















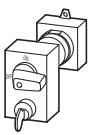
# Ordering

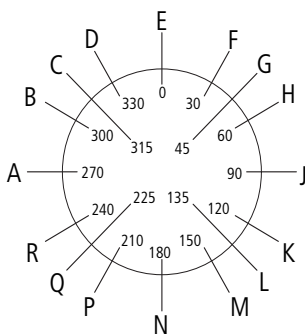
## Switches with locking mechanism

**xCommand** T0, P1

Moeller HPL0211-2007/2008

<http://catalog.moeller.net>

Contact sequence	Front plate no.	No. of poles	Max. motor rating	Rated uninterrupted current	Product view	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
			AC-23A 400/415 V 50-60 Hz							
			P	$I_u$						
			kW	A						
<b>On-Off switch</b>										
with black thumb grip and front plate Key can only be withdrawn in position 0 (Pos A) Without Emergency-Stop function										
<b>Cylinder lock SVA</b>										
	 FS 908	2	6.5	20		Layout	IP65	<b>T0-1-102/11/S</b> 207063		1 off
	 FS 908	2	6.5	20		Flush mounting	IP65	<b>T0-1-102/EZ/S</b> 014933		1 off
<b>Key operation ST-0, IP53</b>										
	 FS 908	3	6.5	20		Layout	IP65	<b>T0-2-1/11/SVA(A)</b> 207083		1 off
		3	13	25		Layout	IP65	<b>P1-25/12/SVA(A)</b> 207304		1 off
		3	6.5	20		Flush mounting	IP65	<b>T0-2-1/E/SVA(A)</b> 050976		1 off
		3	13	25		Flush mounting	IP65	<b>P1-25/E/SVA(A)</b> 050965		1 off
		3	6.5	20		Rear mounting	IP65	<b>T0-2-1/Z/SVA(A)</b> 050978		1 off

**Notes**

Code letters for lockable switch positions  
Letter S for panic lock with FS908GE




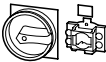




Main switch assembly kits, thumb-grips, maintenance keys

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SVB-...-T0(P3), KNB-...-T0(P3) **xCommand**

Rotary switches, switch-disconnectors

	For use with	Part no. Article no.	Price see price list	Std. pack	Notes	
<b>Main switch assembly kits</b>						
Padlocking feature, exclusively for main switches Admissible on T0 up to 4 contact units Admissible on T3 up to 6 contact units						
	With red rotary handle and yellow locking ring	as Emergency-Stop device according to IEC/EN 60204-1, VDE 0113 Part 1	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-T0</b> 057892	1 off	<ul style="list-style-type: none"> <li>• for interlocking the 0 position</li> <li>• for switches with positions 0 - I at 90°</li> <li>• Switching angle as front plate FS908</li> <li>• Lockable with max. 3 padlocks</li> </ul>
	With black rotary handle and black locking ring	Without Emergency-Stop function	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-SW-T0</b> 060265	1 off	
<b>Main switch assembly kits with PE terminal and N terminal</b>						
	With red rotary handle and yellow locking ring	as Emergency-Stop device according to IEC/EN 60204-1, VDE 0113 Part 1	T0-.../E, .../Z T3-.../E, .../Z T5(B)-.../E, .../Z	<b>V/EA/SVB-T0</b> 062638	1 off	<ul style="list-style-type: none"> <li>• For conversion of T.../E flush mounting switches with front plate FS908 into T.../EA/SVB... flush mounting main switches.</li> <li>• For conversion of T.../Z rear mounting switches (with front plate FS908) into interlocked T.../V/SVB rear mounting main switches</li> </ul>
	With black rotary handle and black locking ring	Without Emergency-Stop function	T0-.../E, .../Z T3-.../E, .../Z T5(B)-.../E, .../Z	<b>V/EA/SVB-T5</b> 045065	1 off	
			<b>V/EA/SVB-SW-T0</b> 065011	1 off		
			<b>V/EA/SVB-SW-T5</b> 045064	1 off		
<b>Thumb-grips</b>						
	Black	-	-	<b>KNB-T0</b> 038909	10 off	
	Red, only for Emergency-Stop switch, according to IEC/EN 60204-1, VDE 0113 Part 1	-	-	<b>KNB-RT-T0</b> 043655	10 off	<ul style="list-style-type: none"> <li>• Order additional yellow front plate FS908GE-T0</li> </ul>
	Black	-	-	<b>KNB-P3</b> 041282	10 off	
	Red, only for Emergency-Stop switch, according to IEC/EN 60204-1, VDE 0113 Part 1	-	-	<b>KNB-RT-P3</b> 046028	10 off	<ul style="list-style-type: none"> <li>• Order additional yellow front plate FS908GE-P3</li> </ul>
<b>Maintenance key for locked main switch</b>						
	For interlocked main switches	-	-	<b>KNK-T0</b> 000650	5 off	Special devices for electricians, to allow them to switch interlocked main switches On and Off, when the panel door is open for maintenance purposes (to IEC/EN 60204-1, Clause 5.1.1.1)
	For interlocked main switches	-	-	<b>KNK-P3</b> 000649	5 off	
<b>ATEX style</b>						
According to 94/9EG Test Certificate BVS04E106X Only available together with basic device						
	with metric knock-outs M20	T0-.../I1	-	<b>+ATEX-I1</b> 237513	1 off	
		T3-.../I2 P1-.../I2	-	<b>+ATEX-I2</b> 237514	1 off	
	with solid side walls	T5B-.../I4 P3-.../I4	-	<b>+ATEX-I4</b> 237516	1 off	
		T5-.../I5 P3-.../I5	-	<b>+ATEX-I5</b> 237517	1 off	



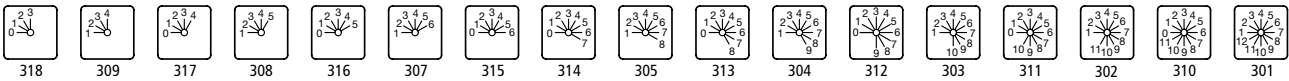
Size	Dimensions (W × H × D) mm	Part no. Article no.	Price see price list	Std. pack
<b>Standard front plates</b>				
Can be laser inscribed				
T0, T3, P1	45 × 45 (for size 48 × 48)	<b>FS(*)-T0</b> 231893		10 off
P3, T5, T5B	84 × 84 (for size 88 × 88)	<b>FS(*)-P3</b> 231895		10 off
<b>Emergency-Stop front plates</b>				
-				
T0, T3, P1	45 × 45 (for size 48 × 48)	<b>FS908GE-T0</b> 003198		5 off
P3, T5, T5B	84 × 84 (for size 88 × 88)	<b>FS908GE-P3</b> 031475		5 off
<b>Blank plates</b>				
Can be engraved				
P3, T5, T5B	84 × 84 (for size 88 × 88)	<b>FS-ALU980-P3</b> 266906		10 off
T0, T3, P1	45 × 45 (for size 48 × 48)	<b>FS-ALU980-T0</b> 266905		50 off

**Notes**

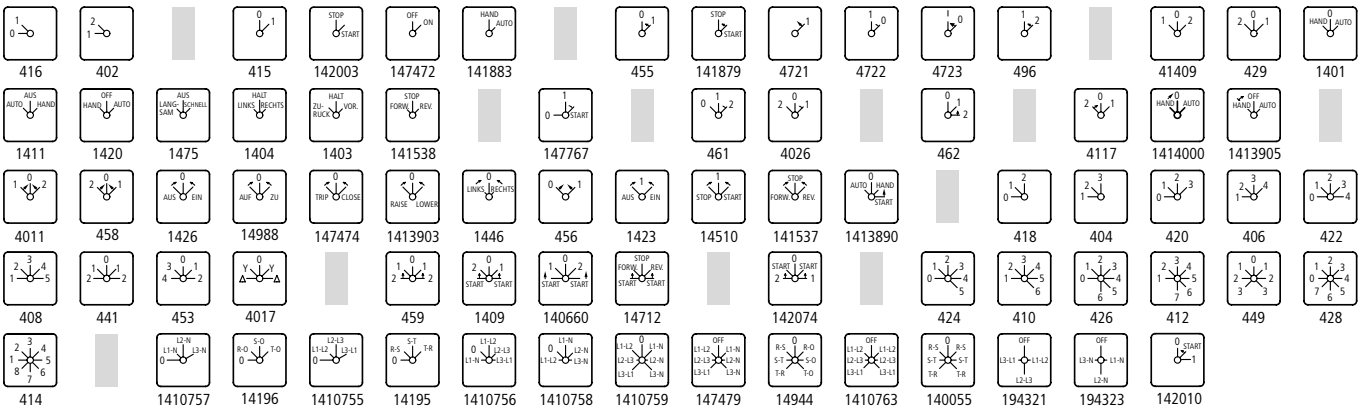
**Standard front plates**

For standard contact sequence the normal front plate can be replaced if required with the front plate shown here (not with T6, T8 and TM). This is provided the switching angle, number of positions and the position of the 0 position are the same.

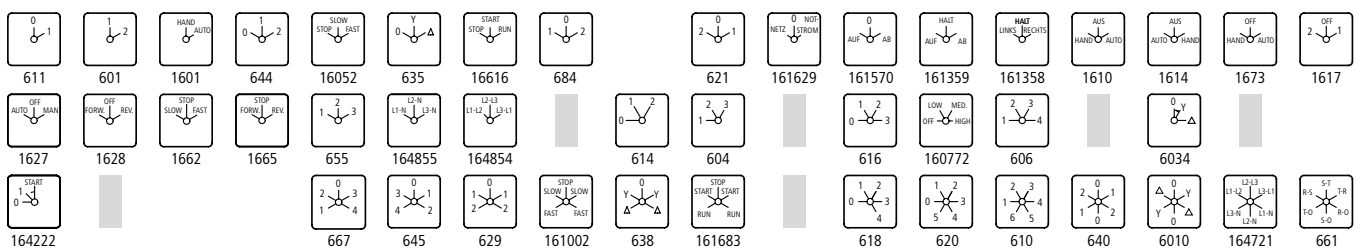
**Switching angle 30°**



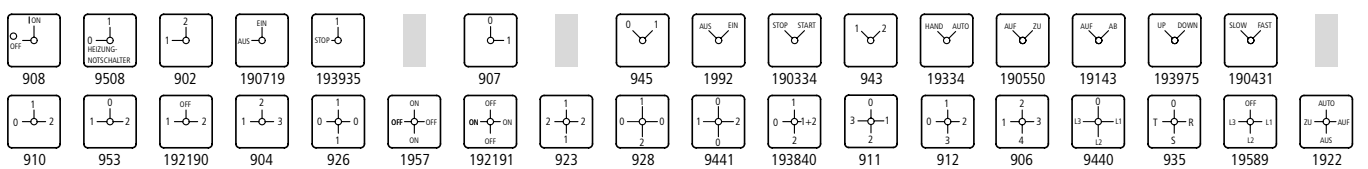
**Switching angle 45°**

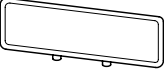
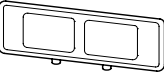



**Switching angle 60°**




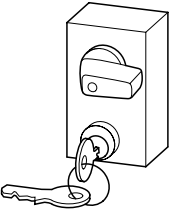
**Switching angle 90°**

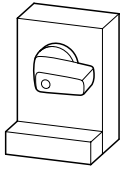


Explanation	Language	For use with	Part no. Article no.	Price see price list	Std. pack
<b>Add-on front plates, clip-on</b>					
for padlocking feature consists of label mount and insert label					
<ul style="list-style-type: none"> <li>• Inscribed with standard text "main switch only open in 0 position" in various languages</li> <li>• Blank, can be engraved</li> </ul>					
					
Blank, can be engraved	None	Rotary switches T0, T3, P1	<b>ZFS60-T0</b> 019924		25 off
Blank, can be engraved	None	Switch-disconnectors T5(B), P3	<b>ZFS60-P3</b> 022297		
Engraved with standard text	German/English	Rotary switches T0, T3, P1	<b>ZFS61/62-T0</b> 030170		
Engraved with standard text	Spanish	Switch-disconnectors T5(B), P3	<b>ZFS77-P3</b> 047422		
Engraved with standard text	French	Switch-disconnectors T5(B), P3	<b>ZFS63-P3</b> 047423		
Engraved with standard text	French	Rotary switches T0, T3, P1	<b>ZFS63-T0</b> 047424		
Engraved with standard text	German/English	Switch-disconnectors T5(B), P3	<b>ZFS61/62-P3</b> 065739		
Engraved with standard text	Italian	Rotary switches T0, T3, P1	<b>ZFS68-T0</b> 065751		
Engraved with standard text	Spanish	Rotary switches T0, T3, P1	<b>ZFS77-T0</b> 065752		
Engraved with standard text	Hungarian	Switch-disconnectors T5(B), P3	<b>ZFS80-P3</b> 205565		
Engraved with standard text	Portuguese	Rotary switches T0, T3, P1	<b>ZFS72-T0</b> 205541		
Engraved with standard text	Swedish	Rotary switches T0, T3, P1	<b>ZFS75-T0</b> 205544		
Engraved with standard text	Hungarian	Rotary switches T0, T3, P1	<b>ZFS80-T0</b> 205548		
Enter country reference when ordering: D = German GB = English F = French I = Italian E = Spanish		Switch-disconnector P5-.../EA/SVB Switch-disconnector P5-.../V/SVB	<b>ZFS(*)-P5</b> 105225		1 off
<b>Label mounts, black, plug-in type</b>					
					
		Rotary switches T0, T3, P1	<b>ZFSX-T0</b> 024670		25 off
		Switch-disconnectors T5(B), P3	<b>ZFSX-P3</b> 027043		25 off
<b>Insert plates</b>					
					
		Rotary switches T0, T3, P1	<b>BS45X14-T0</b> 029416		25 off
		Switch-disconnectors T5(B), P3	<b>BS84X24-P3</b> 031789		25 off

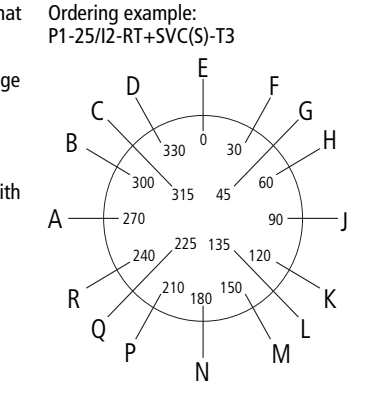
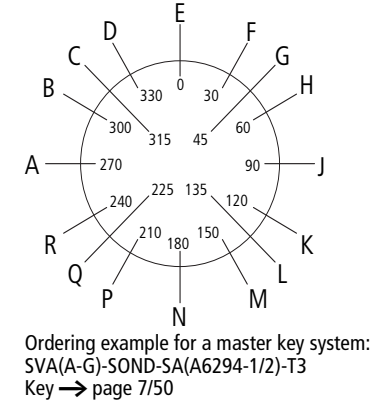


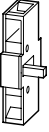


	For use with	Key withdrawal/locking option
<b>S-T0 key operated lock mechanism, Front IP53</b>		
Includes two keys		
	KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems	T0-.../E, .../I1, .../Z up to max. 6 contact units T3-.../E, .../Z up to max. 5 contact units T3-.../I2 up to max. 4 contact units P1-.../E, .../I2, .../Z
	KMS 2-10 lock mechanisms, KMS 201-400 lock mechanisms: Individual lock mechanisms, not suitable for master key systems	
	Lock KMS1: Switch with FS908 are possible as main switch for T0-1-... to T0-4-.../I1, .../E; T3-1-... to T3-4-.../I2; T3-1-... to T3-6-.../E; P1-.../I2, .../E SA(...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan showing the full <b>configuration of the envisaged lock system</b> . For subsequent part orders, simply state the item number within the lock plan, e.g. (A6294-1/2).	T0-.../E, .../I1, .../Z up to max. 6 contact units T3-.../E, .../Z up to max. 5 contact units T3-.../I2 up to max. 4 contact units P1-.../E, .../I2, .../Z

<b>SVA-T3 cylinder lock, Front IP65</b>		
Includes two keys		
	KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z
	KMS 2-10 lock mechanisms, KMS 201-400 lock mechanisms: Individual lock mechanisms, not suitable for master key systems	
	KMS1 lock mechanism: Switches with FS908 are suitable as main switches: T0-1-... to T0-4-.../I1, .../E; T3-1-... to T3-5-.../I2; T3-1-... to T3-6-.../E; P1-.../I2, .../E SA(...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan showing the full <b>configuration of the envisaged lock system</b> . For subsequent part orders, simply state the item number within the lock plan, e.g. (A6294-1/2).	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z

<b>SVC-T3 padlocking feature, Front IP65</b>		
In the depressed position, the locking slide is lockable with up to 3 padlocks		
	All positions are lockable	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z
	Specified positions or ranges are lockable	T0-1-... to T0-4-.../I1, .../E T3-1-... to T3-5-.../I2 T3-1-... to T3-6-.../E P1-.../I2, .../E P1-.../I2, .../E

Part no. Article no.	Price see price list	Std. pack	Notes
S-T0 086709		1 off	The key replaces the thumb-grip, cannot be switched without key. The switch position indication in on the lock. Normally the key is withdrawable in every position. With the ordering of a rotary switch with front plate FS908 together with key operation the key is only withdrawable in the 0 position. The key removability can be changed (also retro) with the locking cam "VR-T0". With retrofitting of key operation the existing front plate of the rotary switch must be used. Key → page 7/50
S-SOND-KMS(*)-T0 231957		1 off	
S(*)-T0 231959		1 off	
S(*)-SOND-SA(*)-T0 231965		1 off	
<b>SVA-T3 cylinder lock, Front IP65</b>			
SVA-T3 050974		1 off	Switched with thumb-grip. Locked by turning the key. The key is removable. Normally all positions can be locked. Individual positions or ranges are lockable (also retro with VR-T3). In positions that are not lockable the key cannot be removed. With lockable ranges only inside the range can be switched without the key. The positions or ranges to be locked must be entered as follows in the form. Example 1: SVA(A)-T3 = only position A withdrawable Example 2: SVA(A, E)-T3 = only position A and E withdrawable Example 3: SVA(A-J)-T3 = range A to J withdrawable Example 4 SVA(S)-T3 = main switch for use as Emergency-Stop according to IEC/EN 60204-1, VDE 0113 Part 1, with red thumb-grip and yellow front plate "Panic lock version" lockable in positions A and E, from E it can still be switched to A but not from A to E.  The front plate of the switch is to be used for retrofitting. With the letter S use for panic lock FS908GE. Ordering example: P1-25/I2-RT+SVA(S)-T3
SVA-SOND-KMS(*)-T3 231967		1 off	
SVA(*)-T3 907745		1 off	
SVA(*)-SOND-SA(*)-T3 231971		1 off	
<b>SVC-T3 padlocking feature, Front IP65</b>			
SVC-T3 050975		1 off	Switched with thumb-grip. Interlocked by pushing a button that is lockable with 1-3 padlocks. Normally all positions can be locked. By entering SCV(...) -T3 only the entered position is lockable. Locked ranges can only be switched within the range without removing the padlocks. The positions or ranges to be locked must be entered in the form. Form → Notes to SVA(...) -T3 The front plate of the switch is to be used for retrofitting. With the letter S use for panic lock FS908GE.
SVC(*)-T3 907748		1 off	



	For use with	Part no. Article no.	Price see price list	Std. pack
<b>Neutral poles</b>				
Early-make, late-break				
	For side mounting, left or right	P1-.../E, .../EA, .../EZ	<b>N-P1E</b> 000651	5 off
	With P1-.../I2: optional N-P1Z or HI11-P1/P3Z can only be fitted to left	P1-.../Z, .../V, .../I2, .../IVS	<b>N-P1Z</b> 000652	
		P3-.../E, .../EA...	<b>N-P3E</b> 062432	
		P3-.../Z, .../V, .../IVS P3-63/E, .../Z, /I4 P3-100/E, .../Z, .../I5	<b>N-P3Z</b> 064805	
<b>Neutral terminal</b>				
	For side mounting	P5-250(315)/Z(V)	<b>N-P5-250/315Z</b> 280972	1 off
<b>Protective conductor terminal</b>				
	For side mounting	P5-125(160)/E(EA)	<b>PE-P5-125/160E</b> 280973	1 off
		P5-250(315)/Z(V)	<b>PE-P5-250/315Z</b> 280976	
<b>Auxiliary contacts</b>				
Late making N/O and early breaking N/C contacts. The N/O is always connected as a load-shedding contact.				
	For side mounting, left and/or right	P1-.../E, .../EA..., .../EZ P3-.../E, .../EA	<b>HI11-P1/P3E</b> 061813	5 off
	With P1-.../I2: HI11-P1/P3Z or N-P1Z can be fitted to left only	P1-.../Z, .../V, .../I2, .../IVS P3-63/Z, .../V, .../I4, .../IVS P3-100/Z, .../V, .../I5, .../IVS	<b>HI11-P1/P3Z</b> 062031	
<b>Centre mounting accessories</b>				
For single-hole fitting Mounting diameter 22.3 mm				
	For rotary switches with existing front plate	T0-.../E T3-.../E	<b>EZ-T0</b> 081622	1 off
	Mounting diameter 22.3 mm and 30.5 mm	T0-.../E T3-.../E P1-.../E	<b>EZ-P1</b> 091455	1 off
<b>Service distribution board mounting accessories</b>				
Includes push-fit shaft				
	For retrofitting T0-.../XZ basic switches as T0-.../IVS into service distribution boards	T0-.../XZ	<b>IVS-T0</b> 091114	1 off





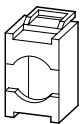

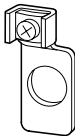
Coupling drive, interlock parts, shaft extension

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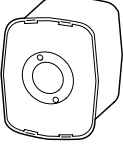
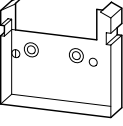
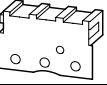
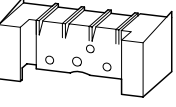
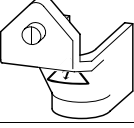
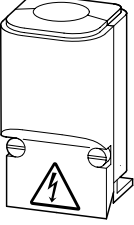


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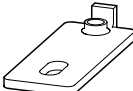
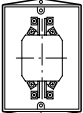
DE-T0(P3), ZAV-T0(P3) **xCommand**

Rotary switches, switch-disconnectors

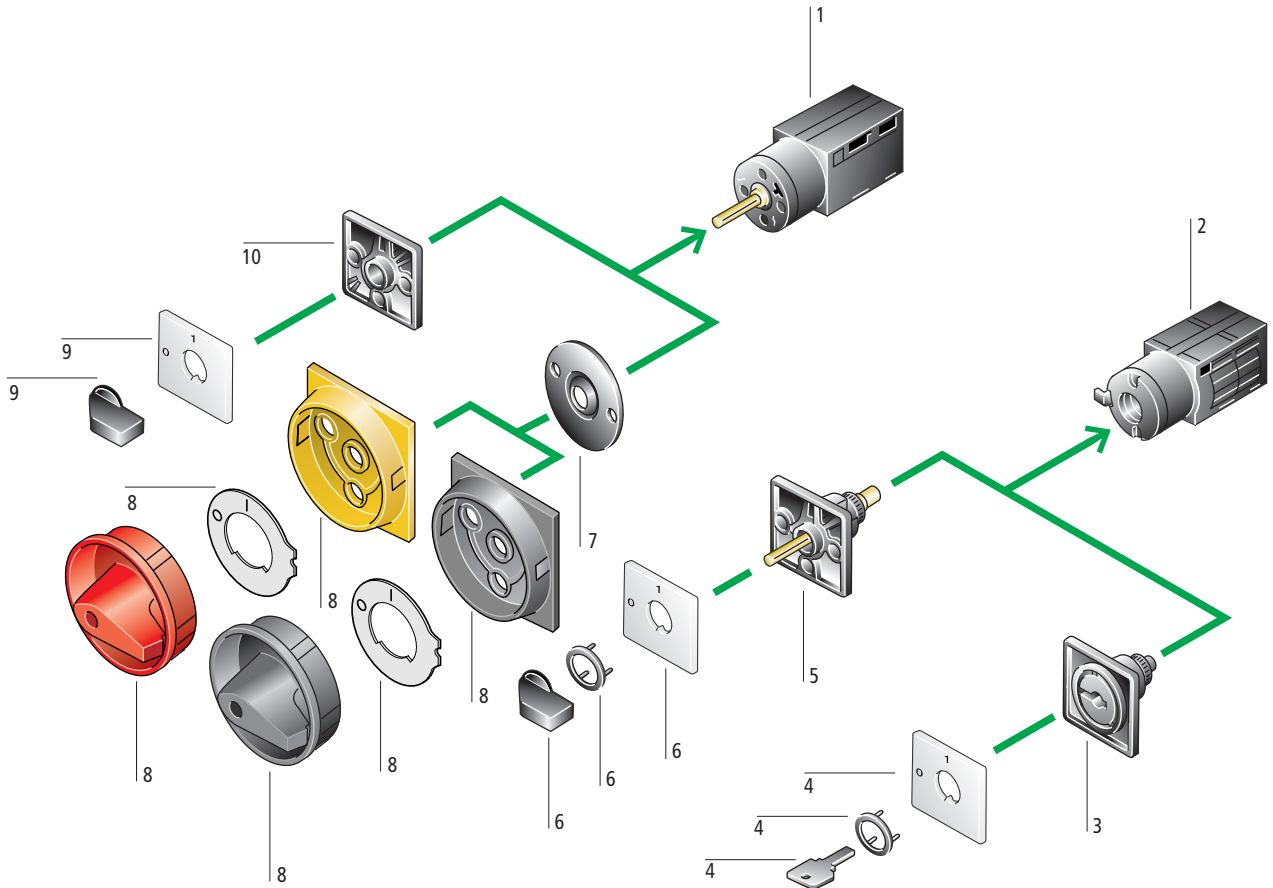
For use with		Type suffix/Type Article no., When ordered with basic unit/ ordered separately	Price see price list	Std. pack	Notes
<b>Coupling drive</b>					
Includes push-fit shaft					
	For retrofitting T0(T3)-.../XZ basic switches in the rear mounting form Spare parts for T0(T3)/(P1)-.../Z	<b>DE-T0</b> 093487		1 off	
	For conversion of T5 (B)-.../E flush mounting switch into a rear mounting switch Spare parts for T5(B)/(P3)-.../Z	<b>DE-P3</b> 093972		3 off	
<b>Interlock sections</b>					
With PE and N conductor connection Fits on the reverse of flush mounting switches, with interlocking function for rear mounting switches.					
	T0-.../E, ...EZ, ...Z T3-.../E, ...EZ, ...Z P1-.../E, ...EZ, ...Z	<b>UV-T0</b> 019925		1 off	Fits on the reverse of flush mounting switches With interlocking function for rear mounting switches
	T5(B)-.../E, ...Z P3-.../E, ...Z	<b>UV-P3</b> 048289			
<b>Interlock extensions</b>					
Up to four off, 25 mm each, can be plugged onto interlock section (An equal number of shaft extensions is required for this purpose)					
	Use ZVV-T0 only with T0/T3-.../Z and P1-.../Z	UV-T0 <b>ZVV-T0</b> 022298		10 off	Use ZVV-T0 only with construction type T0/ T3-.../Z and P1-.../Z  Use ZVV-P3 only with construction type T5(B)-.../Z and P3-.../Z
	Use ZVV-P3 only with T5(B)-.../Z and P3-.../Z	UV-P3 <b>ZVV-P3</b> 024671			
<b>Shaft extensions</b>					
Up to four off, 25 mm each, can be plugged onto switch shaft					
	T0-.../Z, T0-.../V T3-.../Z, T3-.../V P1-.../Z, P1-.../V	<b>ZAV-T0</b> 027044		10 off	
	T5(B)-.../Z P3-.../Z	<b>ZAV-P3</b> 029417			
<b>Shaft</b>					
	Aluminium, length: 480 mm	P5-.../V... P5-.../Z	<b>ZAV-P5</b> 280979	1 off	
<b>Interlock extensions und shaft extensions, complete</b>					
Only available in conjunction with a basic unit					
	Extension up to 25 mm		+ZAV(X1)+ZVV(X1)-T0/P3 254546	1 off	
<b>Control circuit terminal</b>					
	P5-250/315	<b>ST-P5-250/315</b> 280978		1 off	Terminal capacity • solid or stranded: 4 mm <sup>2</sup> • Flexible with ferrules to DIN 46228: 4 mm <sup>2</sup>



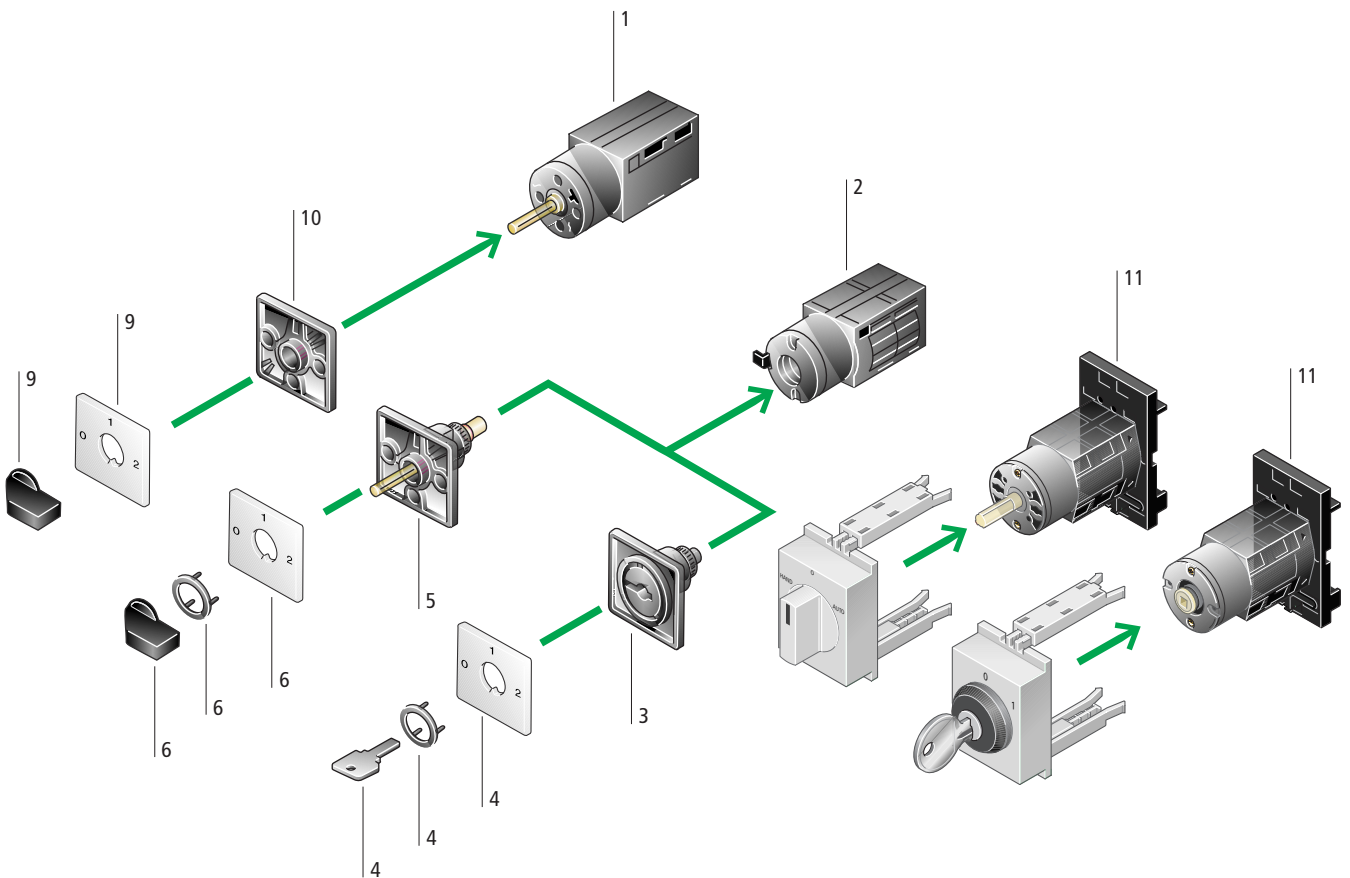
		For use with	Part no. Article no.	Price see price list	Std. pack	Notes
<b>Shrouds</b>						
	For flush-mounting switches with up to 4 contact units	T0-.../E T3-.../E	<b>H3-T0</b> 093828		1 off	Cable entries Quantity: 2 × Ø 20 mm + 2 × Ø 15 mm Cross-section: 5 × 6 mm <sup>2</sup> 5 × 2.5 mm <sup>2</sup>
	Cover for protection of terminals For up to 2 contact units	T5(B)-.../E, .../Z	<b>H1-T5</b> 045062			Can be used for input and/or output wiring
	Extension of H1-T5 cover To protect 3 to 8 contact units	H1-T5	<b>HZ-T5</b> 045063		10 off	1 × HZ-T5 required per contact unit
	To cover terminals on 3-pole switch-disconnectors	P1-.../E, .../EZ, .../Z, .../EA, .../V	<b>H-P1</b> 017253		5 off	Can be used for input and/or output wiring
	To cover terminals on 4-pole switch-disconnectors	P1-...N, ...HI11, ...N...HI11	<b>H-P14</b> 019626			Can be used for input and/or output wiring
	To cover terminals on 3-pole open switch-disconnectors with N neutral conductor and/or HI11 auxiliary contact modules fitted	P3-.../E, .../Z, .../ EA, .../V P3-...N, ...HI11, ...N...HI11	<b>H-P3</b> 021999			The shroud is designed for fitting onto both sides of the switch-disconnector. Parts which are not required can be broken off.
	Set of three, to protect the terminals	P5	<b>H-P5-125/160-3P</b> 280967		3 off	
	Cover assembly to protect the 6 terminals	T8-3-8342/...	<b>H-T8</b> 200184			
<b>Keys</b>						
	For KMS 1 individual lock mechanism		<b>ES-KMS1-T0</b> 231972		10 off	
	For KMS 2 - 10 individual lock mechanism or KMS 201 - 400		<b>ES-KMS(*)-T0</b> 231973			
	Individual key, corrosion-proof, for master key systems and recorded individual lock mechanisms: state lock plan no. and lock		<b>HS-SA(*)-T0</b> 256151			Master keys must always be ordered separately. Please send or submit the security certificate with repeat orders. <b>Ordering example:</b> HS-SA(A6294-1/2)-T0
<b>Locking cams (2 cams per set)</b>						
	For user to select indexing position in which key can be withdrawn	S-T0 for all switching angles	<b>VR-T0</b> 089082		1 off	
<b>Mounting plate screen</b>						
	To connect the screening	CI-K2	<b>MBS-I2</b> 290191		2 off	

	For use with	Part no. Article no.	Price see price list	Std. pack	Notes	
<b>IP65 insulated enclosures</b>						
 <b>totally insulated</b>						
Enclosures designed for metric cable glands to EN 50262						
	1 – 2 contact units	With push-through cable entry diaphragm.	T0-.../XZ	<b>CI-K1-T0-2</b> 207435	1 off	Cable sizes which may be pushed through the diaphragm Main-/control current 12 mm/- 16 mm/8 mm 1 contact unit = 2 contacts
	3 - 4 contact units		T0-.../XZ	<b>CI-K1-T0-4</b> 207436	1 off	
	1 – 2 contact units		T3-.../XZ	<b>CI-K2-T3-2</b> 207437	1 off	
	5 contact units		T3-.../Z	<b>CI-K2-T3-5</b> 207438	1 off	
	3 - 4 contact units		T3-.../XZ	<b>CI-K2-T3-4</b> 225325	1 off	
	1 – 2 contact units	With metric knock-outs	T0-.../XZ	<b>CI-K1H-T0-2</b> 105854	1 off	
	3 - 4 contact units		T0-.../XZ	<b>CI-K1H-T0-4</b> 105855	1 off	Converts T5-.../Z into T5-.../I5 and T5B-.../E into T5B-.../I4: Order AW-T5-... extension terminals in addition 1 contact unit = 2 contacts
	1 – 2 contact units		T3-.../XZ	<b>CI-K2H-T3-2</b> 269462	1 off	
	3 - 4 contact units		T3-.../XZ	<b>CI-K2H-T3-4</b> 105859	1 off	
	5 contact units		T3-.../XZ	<b>CI-K2H-T3-5</b> 105860	1 off	
	1 – 2 contact units		T5B-.../E	<b>CI-K4-T5B-2</b> 207439	1 off	
	3 - 4 contact units		T5B-.../Z	<b>CI-K4-T5B-4</b> 207440	1 off	
	1 – 2 contact units		T5-.../Z	<b>CI-K5-T5-2</b> 207441	1 off	
	3 - 4 contact units		T5-.../Z	<b>CI-K5-T5-4</b> 207442	1 off	
only available together with basic device		T0-.../I1	<b>+I1H</b> 105870	1 off		
only available together with basic device		T3-.../I2 P1-.../I2	<b>+I2H</b> 105871	1 off		
<b>Neutral terminals</b>						
For connection of 5th conductor						
	CI-K2-PKZ0-...	<b>K-CI-K1/2</b> 207451		20 off		
	T5B-.../I4, CI-K4-T5B-... P3-.../I4 CI-K4	<b>K-CI-K4</b> 206916		20 off		
	T5-.../I5, CI-K5-T5-... P3-.../I5 CI-K, 100 A	<b>K50/1</b> 098573		10 off		
	T5-.../I5, CI-K5-T5-... P3-.../I5 CI-K5	<b>K-CI-K5</b> 218488		20 off		
<b>Set of external fixing brackets</b>						
	T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5,	<b>AB-CI-K4/5</b> 206914		1 off	For fixing CI-K4 and CI-K5 directly to the wall. One set comprises 4 brackets.	
<b>Set of extension terminals</b>						
For retrofitting For cable connection in the enclosure						
	For the lowest contact unit	T5B-.../I4 T5-.../I5	<b>AW-T5-1/2</b> 032601	10 off	Included with T5B-.../I4 and T5-.../I5 as standard.	
	For the second contact unit from the bottom	T5-.../I5	<b>AW-T5-3/4</b> 032602	1 off	Included with T5B-.../I4 and T5-.../I5 as standard.	





Control switch TM



<p><b>Flush mounting (.../E)</b> 1</p> <p>Front IP 65</p> <p>Mounting from rear in walls, plates or doors</p> <p>Terminals:</p> <p>Crosshead screwdriver Pozidrive</p> <p>Fingerproof</p> <p>→ page 7/54</p> <hr/> <p><b>Flush mounting control circuit isolator (.../E/SVB)</b> 1</p> <p>Front IP 65</p> <p>To IEC/EN 60947-5, VDE 0660</p> <p>0 position lockable with 2 padlocks 4 mm <math>\varnothing</math> or 1 padlock 6 mm <math>\varnothing</math></p> <p>Can be used with up to 250 V AC per contact</p> <p>Maximum 6 contacts permissible</p> <p>→ page 7/54</p>	<p><b>Centre mounting (.../EZ)</b> 2</p> <p>Front IP 65</p> <p>Mount in fixing hole 16.2 <math>\varnothing</math> or 22.3 <math>\varnothing</math> according to IEC/EN 60947-5-1 after removing provided the adapter</p> <p>→ page 7/54</p> <hr/> <p><b>Key operation for centre mounting</b> 3, 4</p> <p>2 keys are supplied</p> <p>Key withdrawable 90°</p> <p>Key withdrawable 60° with RONIS lock cylinder.</p> <p>→ page 7/59</p>	<p><b>Standard switch for centre mounting</b> 5, 6</p> <p>Black thumb-grip</p> <p>→ page 7/54</p> <hr/> <p><b>Control circuit isolator</b> 7, 8</p> <p>Red rotary handle and yellow locking collar</p> <p>Black rotary handle and black locking collar</p> <p>Lockable in the 0 position</p> <p>→ page 7/54</p> <hr/> <p><b>Standard switch for flush mounting</b> 9, 10</p> <p>Black thumb-grip</p> <p>→ page 7/55</p> <hr/> <p><b>Standard switch for distribution board mounting IVS</b> 11</p> <p>Mounting in service distribution board</p> <p>Mounting width: 2 TE (45 mm mounting depth)</p> <p>up to 2 contact units</p>
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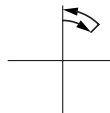
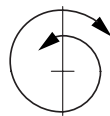
### Product features





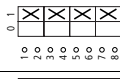
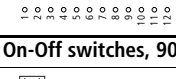




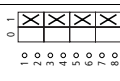
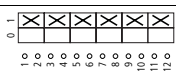
#### Contact chamber

- Rated uninterrupted current 10 A
- Gold plated contacts for safe switching of small voltages and currents also in aggressive atmospheres
- -Positively opening contacts
- 1 – 2 contacts per switching chamber (BE), up to 16 contacts per switch
- For switching differing potentials
- Control circuit reliability

#### Switch position

- Safety due to latching
- Switching angle 30°, 45°, 60°, 90°
- Spring action with automatic return with max. 6 contacts, switching angle  $\geq 60^\circ$
- Complete rotation
- With a total switching angle of 360° complete rotation is possible in both directions



Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack	
<b>Control circuit isolators, 90°</b>								
With padlocking facility, lockable in the Off position Up to 250 V AC per contact								
		1	Flush mounting	Front IP65	<b>TM-1-8290/E/SVB-SW</b> 215351		1 off	
			Flush mounting	Front IP65	<b>TM-1-8290/E/SVB</b> 045477			
		2	Flush mounting	Front IP65	<b>TM-1-8291/E/SVB-SW</b> 215352			
			Flush mounting	Front IP65	<b>TM-1-8291/E/SVB</b> 045478			
		3	Flush mounting	Front IP65	<b>TM-2-8292/E/SVB</b> 045484			
			Flush mounting	Front IP65	<b>TM-2-8292/E/SVB-SW</b> 210955			
		3 + N	Flush mounting	Front IP65	<b>TM-2-8293/E/SVB</b> 045485			
		6	Flush mounting	Front IP65	<b>TM-3-8326/E/SVB</b> 045498			
<b>On-Off switches, 90°</b>								
	 F 056	1	Centre mounting	Front IP65	<b>TM-1-8290/EZ</b> 000693			1 off
			Flush mounting	Front IP65	<b>TM-1-8290/E</b> 070131			
		2	Centre mounting	Front IP65	<b>TM-1-8291/EZ</b> 015073			
			Flush mounting	Front IP65	<b>TM-1-8291/E</b> 072504			
		3	Flush mounting	Front IP65	<b>TM-2-8292/E</b> 074877			
			Centre mounting	Front IP65	<b>TM-2-8292/EZ</b> 015096			
		3 + N	Flush mounting	Front IP65	<b>TM-2-8293/E</b> 077250			
			Centre mounting	Front IP65	<b>TM-2-8293/EZ</b> 045486			
		6	Flush mounting	Front IP65	<b>TM-3-8326/E</b> 079623			



Changeover switch, hand/automatic switch

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TM **xCommand**

Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Changeover switches</b>							
		1	Centre mounting	Front IP65	<b>TM-1-8220/EZ</b> 000692		1 off
		1	Flush mounting	Front IP65	<b>TM-1-8220/E</b> 081996		
		2	Centre mounting	Front IP65	<b>TM-2-8221/EZ</b> 015197		
		2	Flush mounting	Front IP65	<b>TM-2-8221/E</b> 084369		
		3	Centre mounting	Front IP65	<b>TM-3-8222/EZ</b> 045493		
		3	Flush mounting	Front IP65	<b>TM-3-8222/E</b> 086742		
		4	Centre mounting	Front IP65	<b>TM-4-8223/EZ</b> 046119		
		4	Flush mounting	Front IP65	<b>TM-4-8223/E</b> 089115		
		5	Centre mounting	Front IP65	<b>TM-5-8369/EZ</b> 046126		
		5	Flush mounting	Front IP65	<b>TM-5-8369/E</b> 091488		
		6	Flush mounting	Front IP65	<b>TM-6-8370/E</b> 093861		
		1	Centre mounting	Front IP65	<b>TM-1-8210/EZ</b> 015137		
		1	Flush mounting	Front IP65	<b>TM-1-8210/E</b> 096234		
		2	Centre mounting	Front IP65	<b>TM-2-8211/EZ</b> 015166		
		2	Flush mounting	Front IP65	<b>TM-2-8211/E</b> 098607		
		3	Centre mounting	Front IP65	<b>TM-3-8212/EZ</b> 045491		
		3	Flush mounting	Front IP65	<b>TM-3-8212/E</b> 010807		
		3	Flush mounting	Front IP65	<b>TM-3-8299/E</b> 020299		
		4	Centre mounting	Front IP65	<b>TM-4-8213/EZ</b> 045847		
		4	Flush mounting	Front IP65	<b>TM-4-8213/E</b> 013180		
		2	Flush mounting	Front IP65	<b>TM-2-8219/E</b> 017926		
		1	Flush mounting	Front IP65	<b>TM-1-8214/E</b> 032164		
		2	Flush mounting	Front IP65	<b>TM-2-8215/E</b> 034537		
<b>Hand-Auto switches, 60°</b>							
		1	Centre mounting	Front IP65	<b>TM-1-8220F288/EZ</b> 016925		1 off
		1	Flush mounting	Front IP65	<b>TM-1-15431/E</b> 025045		
		1	Centre mounting	Front IP65	<b>TM-1-15431/EZ</b> 000691		
		1	Service distribution board mounting	Front IP30	<b>TM-1-15431/IVS</b> 225342		
		2	Centre mounting	Front IP65	<b>TM-2-15432/EZ</b> 016878		
		2	Flush mounting	Front IP65	<b>TM-2-15432/E</b> 027418		
		3	Centre mounting	Front IP65	<b>TM-3-15433/EZ</b> 045490		
		3	Flush mounting	Front IP65	<b>TM-3-15433/E</b> 029791		

Mini rotary switches





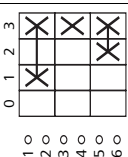



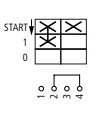

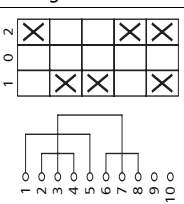

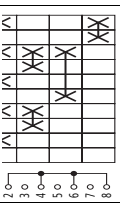

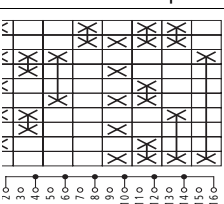

Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack	
<b>Step switches</b>								
<b>Without 0 (Off) position</b>								
<b>3 steps, 60°</b>								
		1	Flush mounting	Front IP65	<b>TM-2-8230/E</b> 039283		1 off	
		1	Centre mounting	Front IP65	<b>TM-2-8230/EZ</b> 000701			
		3	Flush mounting	Front IP65	<b>TM-5-8270/E</b> 041656			
		3	Centre mounting	Front IP65	<b>TM-5-8270/EZ</b> 046124			
<b>4 steps, 60°</b>								
		1	Flush mounting	Front IP65	<b>TM-2-8231/E</b> 044029			
		1	Centre mounting	Front IP65	<b>TM-2-8231/EZ</b> 000700			
		3	Flush mounting	Front IP65	<b>TM-6-8271/E</b> 046402			
		3	Centre mounting	Front IP65	<b>TM-6-8271/EZ</b> 046128			
<b>5 steps, 60°</b>								
		1	Flush mounting	Front IP65	<b>TM-3-8232/E</b> 039298			
		1	Centre mounting	Front IP65	<b>TM-3-8232/EZ</b> 015592			
		2	Flush mounting	Front IP65	<b>TM-5-8252/E</b> 041671			
		2	Centre mounting	Front IP65	<b>TM-5-8252/EZ</b> 046123			
<b>6 steps 60°, no full rotation</b>								
		1	Flush mounting	Front IP65	<b>TM-3-8233/E</b> 053521			
		1	Centre mounting	Front IP65	<b>TM-3-8233/EZ</b> 015630			
		2	Flush mounting	Front IP65	<b>TM-6-8253/E</b> 055894			
		2	Centre mounting	Front IP65	<b>TM-6-8253/EZ</b> 046127			
<b>10 steps, 30°</b>								
		1	Flush mounting	Front IP65	<b>TM-5-8237/E</b> 069150			
		1	Centre mounting	Front IP65	<b>TM-5-8237/EZ</b> 015661			



Contact sequence	Front plate no.	No. of poles	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Step switches</b>							
<b>With additional 0 (Off) position</b>							
<b>2 steps, 60°</b>							
	 F 075	1	Flush mounting	Front IP65	<b>TM-1-8240/E</b> 058267		1 off
		1	Centre mounting	Front IP65	<b>TM-1-8240/EZ</b> 015226		
		2	Flush mounting	Front IP65	<b>TM-2-8260/E</b> 060640		
		2	Centre mounting	Front IP65	<b>TM-2-8260/EZ</b> 045483		
		3	Flush mounting	Front IP65	<b>TM-3-8280/E</b> 063013		
		3	Centre mounting	Front IP65	<b>TM-3-8280/EZ</b> 045496		
<b>3 steps, 45°</b>							
	 F 109	1	Flush mounting	Front IP65	<b>TM-2-8241/E</b> 065386		1 off
		1	Centre mounting	Front IP65	<b>TM-2-8241/EZ</b> 015256		
		2	Flush mounting	Front IP65	<b>TM-3-8261/E</b> 067759		
		2	Centre mounting	Front IP65	<b>TM-3-8261/EZ</b> 000698		
		3	Flush mounting	Front IP65	<b>TM-5-8281/E</b> 070132		
		3	Centre mounting	Front IP65	<b>TM-5-8281/EZ</b> 046125		
<b>4 steps, 30°</b>							
	 F 002	1	Flush mounting	Front IP65	<b>TM-2-8242/E</b> 072505		1 off
		1	Centre mounting	Front IP65	<b>TM-2-8242/EZ</b> 015506		
		2	Flush mounting	Front IP65	<b>TM-4-8262/E</b> 074878		
		2	Centre mounting	Front IP65	<b>TM-4-8262/EZ</b> 046120		
		3	Flush mounting	Front IP65	<b>TM-6-8282/E</b> 077251		
		3	Centre mounting	Front IP65	<b>TM-6-8282/EZ</b> 046129		
<b>5 steps, 30°</b>							
	 F 003	1	Flush mounting	Front IP65	<b>TM-3-8243/E</b> 079624		1 off
		1	Centre mounting	Front IP65	<b>TM-3-8243/EZ</b> 015537		
<b>6 steps, 30°</b>							
	 F 004	1	Flush mounting	Front IP65	<b>TM-3-8244/E</b> 081997		1 off
		1	Centre mounting	Front IP65	<b>TM-3-8244/EZ</b> 045495		
<b>9 steps, 30°</b>							
	 F 007	1	Flush mounting	Front IP65	<b>TM-5-8247/E</b> 009741		1 off
		1	Centre mounting	Front IP65	<b>TM-5-8247/EZ</b> 015565		

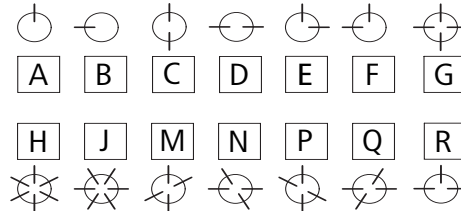
Mini rotary switches



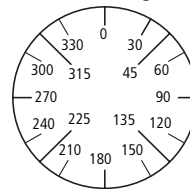
Contact sequence	Front plate no.	Design	Protection type	Part no. Article no.	Price see price list	Std. pack
<b>Group switches</b>						
<b>2 groups, 60°</b>						
	 F 075	Flush mounting	Front IP65	<b>TM-1-8310/E</b> 084370		1 off
		Centre mounting	Front IP65			
<b>3 groups, 30°</b>						
	 F 001	Centre mounting	Front IP65	<b>TM-2-8311/EZ</b> 045487		
<b>ON (OFF) switch</b>						
<b>On switch 30°</b>						
	 F 023	Centre mounting	Front IP65	<b>TM-1-8175/EZ</b> 015690		1 off
<b>ON-OFF switch 90°/30° with spring-return from Start to 1</b>						
	 F 119	Flush mounting	Front IP65	<b>TM-1-8178/E</b> 098608		
		Centre mounting	Front IP65	<b>TM-1-8178/EZ</b> 016786		
<b>Reversing switches</b>						
<b>60 Degree</b>						
	 F 071	Flush mounting	Front IP65	<b>TM-3-8401/E</b> 015554		1 off
<b>Coding switches</b>						
<b>BCD code 0-9, 30°</b>						
	 F 007	Flush mounting	Front IP65	<b>TM-2-8550/E</b> 020300		1 off
		Centre mounting	Front IP65	<b>TM-2-8550/EZ</b> 000699		
<b>BCD code 0-9 + complement, 30°</b>						
	 F 007	Flush mounting	Front IP65	<b>TM-4-8552/E</b> 025046		

Protection type	Key withdrawable with	Part no. suffix Article no.	Price see price list	Std. pack	Notes
<b>Key operation</b>					
Includes two keys For service distribution board mounting (IVS) when ordered with basic unit					
KABA lock 90°	IP65	0°	+EZ/S-A 045458	1 off	Key operated lock mechanism including two keys. The key can be withdrawn only in specified positions, see diagrams below. However, the KABA lock mechanism for 90° can also be used for other switching angles provided the positions for key withdrawal correspond with those specified for the Type of switch. Example: +EZ/S-B can be used on a step switch having a switching angle of 30°, provided the key is to be withdrawn only in the Off position at 270°.
	IP65	270 + 0°	+EZ/S-F 045463		
	IP65	270°	+EZ/S-B 045459		
RONIS lock 60°	IP55	270 + 330 + 30 + 90 + 150 + 210°	+EZ/S-J 045466		
	IP55	270 + 90°	+EZ/S-D 045461		
	IP55	270 + 330 + 90 + 150°	+EZ/S-N 045468		
	IP55	300 + 0 + 60 + 120 + 180 + 240°	+EZ/S-H 045465		

Options for key withdrawal



Position marking for the example



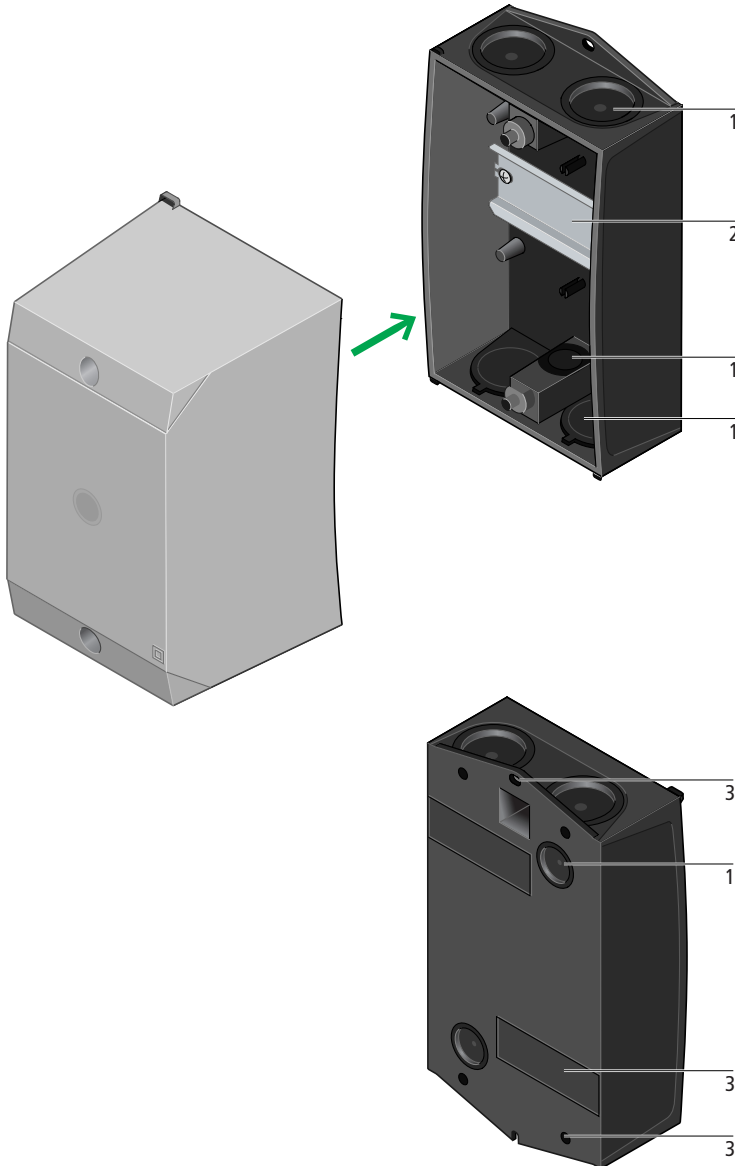
Size	Dimensions (W × H × D) mm	Part no. Article no.	Std. pack	Notes
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<b>Standard front plates</b>				
TM.../EZ	29 × 29 (for frame size 30 × 30)	TM/EZ-FRONTSCCHILD-NR(*) 239022	1 off	<b>Standard front plates</b> For standard contact sequence the normal front plate can be replaced if required with the front plate shown here. This is provided the switching angle, number of positions and the position of the 0 position are the same.
TM.../E	29 × 29 (for frame size 30 × 30)	TM/E-FRONTSCCHILD-NR(*) 239021	1 off	

<b>Blank plates</b>				
Can be engraved				
TM	29 × 29 (for frame size 30 × 30)	FS980-TM-E 071438	10 off	<p><b>Switching angle 30°</b></p> <p><b>Switching angle 45°</b></p> <p><b>Switching angle 60°</b></p> <p><b>Switching angle 90°</b></p>
TM	29 × 29 (for frame size 30 × 30)	FS980-TM-EZ 073811	50 off	

Mini rotary switches



**General**

Degree of protection IP65 (except CI-K2-80-A)

Five basic sizes (floor area of enclosure base)

Two mounting depths per base surface (exception: CI-K1 enclosure depth always 95 mm, CI-K2-80- enclosure depth always 80 mm)

Enclosure made of glass-fibre reinforced with self-extinguishing polycarbonate, halogen free

Captive gasket

Enclosure base (RAL 9005)

Black (matt)

Enclosure cover RAL 7035, light grey (matt)

**Metric cable entries**

CI-K1 and CI-K2

metric cable entry knockouts with push-through cable entry diaphragm in the sides, top and bottom and also in the rear wall

CI-K1H, CI-K2H:

metric cable entry knockouts in the enclosure sides, top and bottom

CI-K3 to CI-K5:

metric cable entry knockouts in the sides, top and bottom and also in the rear wall

Control cable entry from CI-K2

Metric cable glands to EN 50 262

Push-through metric cable grommets

→ page 7/63, → page 13/35

**Mounting systems for empty enclosures**

Mounting rails to IEC/EN 60715

Sheet steel mounting plates

Accessories for mounting systems

→ page 7/64

**Mounting**

Horizontal and vertical slot apertures for wall-mounting enclosures

Captive cover screws

CI-K1 and CI-K2 with rubber feet on the back plate to compensate for uneven walls

External mounting brackets for CI-K4 and CI-K5

→ page 7/51

**Mounting units**

Miniature circuit-breakers

Rotary switch

Switch-disconnectors

Contactors

easy control relays

Timing relays

Control circuit devices

## • Laser labelling

We can label the cover surface of the CI-K small enclosures according to your specifications. Wipe-resistant and permanent with modern laser labelling method.

Please contact your sales office.

CI-K combination-\* → page 7/62

Approved enclosures for use in UL/CSA → page A1/40

## • Cutouts in enclosure covers

We can produce cutouts in enclosure covers to your requirements.

Please contact your sales office.



Dimensions	Enclosure depth: Dimensions from top 1. Mounting depth for mounting plate 2. Mounting depth for mounting rails, 7.5 mm height 3. Enclosure depth	Features	Part no. Article no.	Price see price list	Std. pack
mm	mm				
<b>CI-K basic enclosures</b>					
<ul style="list-style-type: none"> <li>Degree of protection IP65 (Exception: CI-K2-80-A), material glass-fibre reinforced polycarbonate</li> <li>Enclosure base RAL 9005, black/enclosure top RAL 7035, light grey</li> <li>Metric cable entry knockouts top, bottom and in the back plate</li> <li>Push-through cable membrane on CI-K1 and CI-K2</li> <li>Hard metric knockouts for sizes CI-K1H and CI-K2H</li> <li>Hard metric knockouts from sizes CI-K3 to CI-K5</li> <li>Two protective covers to protect the push-through cable membrane with CI-K1 and CI-K2</li> <li>Control cable entry from CI-K2</li> <li>Lamp indicator L- can be mounted in base knock-out M20/M25</li> </ul>					
		With mounting rail	<b>CI-K1-95-TS</b> 206881		1 off
		With mounting rail	<b>CI-K1H-95-TS</b> 105853		
		With mounting rail	<b>CI-K2-100-TS</b> 206882		
		With mounting rail	<b>CI-K2H-100-TS</b> 229304		
		With mounting plate	<b>CI-K2-100-M</b> 206893		
		With mounting plate	<b>CI-K2H-100-M</b> 229306		
		With mounting rail	<b>CI-K2-145-TS</b> 206883		
		With mounting rail	<b>CI-K2H-145-TS</b> 229305		
		With mounting plate	<b>CI-K2-145-M</b> 206894		
		With mounting plate	<b>CI-K2H-145-M</b> 229307		
		With adapter plate Prepared for fitting a DILE contactor with ZE overload relay	<b>CI-K2-145-AD</b> 207632		
		With adapter plate Prepared for fitting a DILE contactor with ZE overload relay	<b>CI-K2H-145-AD</b> 229308		
		With mounting rail	<b>CI-K3-125-TS</b> 206884		
		With mounting plate	<b>CI-K3-125-M</b> 206895		
		With mounting rail	<b>CI-K3-160-TS</b> 206885		
		With mounting plate	<b>CI-K3-160-M</b> 206896		

Small enclosures, empty enclosures



Notes Number and size of cable entries → page 7/63

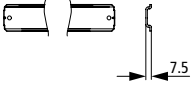
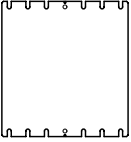

Dimensions	Enclosure depth: Dimensions from top 1. Mounting depth for mounting plate 2. Mounting depth for mounting rails, 7.5 mm height 3. 7.5 mm mounting depth with mounting rails	Features	Part no. Article no.	Price see price list	Std. pack
mm	mm				
<b>CI-K basic enclosures</b>					
<ul style="list-style-type: none"> <li>Degree of protection IP65 (Exception: CI-K2-80-A), material glass-fibre reinforced polycarbonate</li> <li>Enclosure base RAL 9005, black/enclosure top RAL 7035, light grey</li> <li>Metric cable entry knockouts top, bottom and in the back plate</li> <li>Push-through cable membrane on CI-K1 and CI-K2</li> <li>Hard metric knockouts for sizes CI-K1H and CI-K2H</li> <li>Hard metric knockouts from sizes CI-K3 to CI-K5</li> <li>Two protective covers to protect the push-through cable membrane with CI-K1 and CI-K2</li> <li>Control cable entry from CI-K2</li> <li>Lamp indicator L- can be mounted in base knock-out M20/M25</li> </ul>					
		With mounting rail	<b>CI-K4-125-TS</b> 206886		1 off
		With mounting plate	<b>CI-K4-125-M</b> 206897		
		With mounting rail	<b>CI-K4-160-TS</b> 206890		
		With mounting plate	<b>CI-K4-160-M</b> 206898		
		With mounting rail (weight of fitted components max. 0.65 kg, with additional mounting plate 1.7 kg)	<b>CI-K5-125-TS</b> 206891		
		With mounting plate	<b>CI-K5-125-M</b> 206899		
		With mounting rail (component weight max. 0.65 kg, with additional mounting plate 1.7 kg)	<b>CI-K5-160-TS</b> 206892		
		With mounting plate	<b>CI-K5-160-M</b> 206900		
<b>Customized cutouts and laser inscriptions</b>					
<ul style="list-style-type: none"> <li>Only with enclosure cover</li> <li>The necessary data (laser data, symbols, text and their respective positions) as well as the position of the cut-outs must be provided as a DXF file.</li> </ul>					
			<b>CI-K1-COMBINATION-*</b> 102060		1 off
			<b>CI-K2-COMBINATION-*</b> 102061		
			<b>CI-K3-COMBINATION-*</b> 102062		
			<b>CI-K4-COMBINATION-*</b> 102063		
			<b>CI-K5-COMBINATION-*</b> 102064		

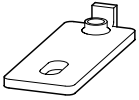
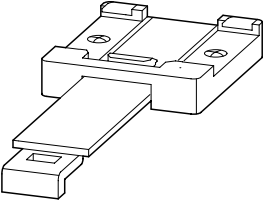
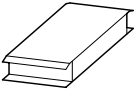

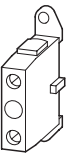
Dimensions	Enclosure depth: Dimensions from top 1. Enclosure depth 2. Mounting depth for mounting plate 3. Mounting depth for mounting rail, 7.5 mm height	Features	Part no. Article no.	Price see price list	Std. pack
mm	mm				
<b>Basic enclosure CI-K2</b>					
<ul style="list-style-type: none"> <li>Degree of protection IP30, glass-fibre reinforced polycarbonate material</li> <li>Enclosure base RAL 9005, black/enclosure top RAL 7035, light grey</li> <li>Metric cable entry knockouts top, bottom and in the back plate</li> <li>Push-through cable entry diaphragm with CI-K2</li> <li>Hard metric knockouts on CI-K2H</li> <li>Two protective covers to protect the push-through cable membrane with CI-K2</li> <li>Control cable entry</li> <li>L... indicator lights can be fitted in M20/M25 knockout in base</li> </ul>					
		with cover cutout	Standard cutout dimensions and mounting rail for devices requiring 2 to 4 space units. Push-through cable entry membrane. Close off unused space units (max. 2) using blanking strips VST1, → page 7/65	<b>CI-K2-80-A</b> 211107	1 off
		with hinged cover	Standard cutout dimensions and mounting rail for devices requiring 2 to 4 space units. Hard metric knockouts. Close off unused space units (max. 2) using blanking strips VST1, → page 7/65	<b>CI-K2H-80-A</b> 229309	1 off
		with cover cutout	Transparent hinged cover for devices requiring 2 to 4 space units. Push-through cable entry diaphragm.	<b>CI-K2-80-K</b> 211108	1 off
		with hinged cover	Transparent hinged cover for devices requiring 2 to 4 space units. Hard metric cable entry knockouts.	<b>CI-K2H-80-K</b> 229310	1 off



**Notes** Membrane grommets, cable glands → page 13/35

L	M	N	O	P	Q	R
Knockouts 2 x M20 or push-through membrane up to max. Ø 12 mm	Knockouts 2 x M25 or push-through membrane up to max. Ø 16 mm CI-K2H: 2 x M25/20	Knockouts 2 x M25/20	Knockouts 2 x M32/25 1 x M20	Knockouts 2 x M50/40/25 1 x M20	Knockouts 2 x M25 or push-through membrane up to max. Ø 16 mm and 1 push-through membrane up to Ø 8 mm CI-K2H: 2 x M25/20	Knockouts 2 x M25/20 1 x M20
S	T	U	V	W		
Back plate: 2 x push-through membrane up to max. Ø 8 mm	Back plate: 2 x push-through membrane up to max. Ø 11 mm (not for CI-K2H)	Back plate: 2 x M25/20	Back plate: 2 x M32/25	Back plate: 2 x M50/40/25		

For use with	Mounting position	Features	Useful length mm	Part no. Article no.	Price see price list	Std. pack
<b>Mounting rails to IEC/EN 60715</b>						
Height 7.5 mm, with fixing screws						
						
CI-K1	Crosswise		60	<b>TS-CI-K1</b> 206901		10 off
CI-K2	Crosswise		82	<b>TS-CI-K2</b> 206902		
CI-K3	Lengthwise and crosswise		98	<b>TS-CI-K3</b> 206903		
CI-K4	Crosswise		133	<b>TS-CI-K4</b> 206904		
CI-K5	Lengthwise and crosswise, CI-K4 lengthwise		173	<b>TS-CI-K5</b> 206905		
<b>Mounting plates</b>						
2 mm steel with fixing screws						
						
CI-K2			–	<b>M-CI-K2</b> 206906		10 off
CI-K3			–	<b>M-CI-K3</b> 206907		
CI-K4			–	<b>M-CI-K4</b> 206908		
CI-K5			–	<b>M-CI-K5</b> 206909		
<b>Accessories for mounting systems</b>						
Spacers						
For raising mounting systems in CI-K3 to CI-K5 (4 off required for mounting plate, 2 off required for mounting rail)						
–		by 25 mm	–	<b>HS25-CI</b> 002291		25 off
–		by 50 mm	–	<b>HS50-CI</b> 002292		25 off
–		by 10 mm	–	<b>ADT200-190</b> 002289		10 off
–		by 15 mm	–	<b>ADT125-110</b> 002290		10 off
<b>Hank nuts</b>						
To secure devices to mounting plate						
						
–		M4 thread	–	<b>BT7488</b> 088380		100 off
–		M5 thread	–	<b>BT7477</b> 086007		100 off

	For use with	For use with	Terminal capacities flexible mm <sup>2</sup>	Part no. Article no.	Price see price list	Std. pack
<b>Accessories for CI-K small enclosures</b>						
External fixing bracket kit To secure CI-K4 and CI-K5 directly on the wall. Each kit contains 4 brackets.						
	-	T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5,		AB-CI-K4/5 206914		1 off
Mounting rail adapter, screw fixing To secure enclosure on mounting rails to IEC/EN 60715						
	CI-K1			TB-CI-K 206918		1 off
Blanking strips To blank off one space unit; cannot be removed from outside						
	CI-K2-80-A			VST1 211258		5 off
N terminals, PE terminals Can be screwed onto support bosses in enclosure base plate						
	CI-K2-PKZ0-... CI K1/2		1 – 4 mm <sup>2</sup>	K-CI-K1/2 207451		20 off
Insulated individual terminals • With PE, N adhesive labels • For snap-fitting onto mounting rail						
	CI-K3		1 – 10 mm <sup>2</sup>	K-CI-K3 206915		20 off
	CI-K4	T5B-.../I4, CI-K4-T5B-... P3-.../I4	1.5 – 16 mm <sup>2</sup>	K-CI-K4 206916		20 off
	CI-K5	T5-.../I5, CI-K5-T5-... P3-.../I5	10 – 35 mm <sup>2</sup>	K-CI-K5 218488		20 off
Protective covers for push-through cable membrane with CI-K1 (2) To cover the push-through cable membrane						
	CI-K1 (M20)			SK-CI-K1 226766		100 off
	CI-K1 (M25)			SK-CI-K2 226767		100 off



Small enclosures, empty enclosures

Dimensions mm	Features	For use with	Enclosure depth mm	Part no. Article no.	Price see price list	Std. pack
<b>CI-B, C, D basic enclosures</b>						
<ul style="list-style-type: none"> <li>• Transparent cover</li> <li>• Metric knockouts top, bottom</li> <li>• With PEN terminal</li> <li>• IP55 individual enclosure with pre-drilled mounting plate</li> </ul>						
		DIL00AM		CI-B 024315		5 off
		S27		CI-C 031434		2 off
		DIL0AM S27		CI-D 038553		2 off
<b>Hank nuts</b>						
To secure devices to mounting plate						
	M4 thread	-		BT7488 088380		100 off
	M5 thread	-		BT7477 086007		100 off
<b>PE terminal (5<sup>th</sup> conductor)</b>						
Rated current 25 A For $\varnothing$ 1.5 – 6 mm <sup>2</sup> solid						
		CI-B CI-C CI-D		K6/1 002270		100 off

L  
  
 Knockouts  
 2 × M20



				P1-25	P1-32	P3-63	P3-100		
<b>General</b>									
Standards				IEC/EN 60 947, VDE 0660, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60 947-3					
Lifespan, mechanical	Operations	$\times 10^6$		0.3	0.3	0.1	0.1		
Maximum operating frequency	Operations/h			50	50	50	50		
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30					
Ambient temperature	Open	$^{\circ}\text{C}$		-25...50	-25...50	-25...50	-25...50		
	Enclosed	$^{\circ}\text{C}$		-25...40	-25...40	-25...40	-25...40		
Mounting position				As required	As required	As required	As required		
Mechanical shock resistance (IEC/EN 60068-2-27)	Half-sinusoidal shock, 20 ms		$\text{g}$	15	15	15	15		
<b>Contacts</b>									
Rated operational voltage	$U_e$	V AC		690	690	690	690		
Rated impulse withstand voltage	$U_{imp}$	V AC		6000	6000	6000	6000		
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3		
Rated uninterrupted current	$I_u$	A		25	32	63	100		
Load rating with intermittent operation, class 12	AB 60 % DF	$\times I_e$		1.3	1.3	1.3	1.3		
	AB 40 % DF	$\times I_e$		1.6	1.6	1.6	1.6		
	AB 25 % DF	$\times I_e$		2	2	2	2		
Short-circuit rating	Fuse	A gG/gL		25	50	80	100		
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$		640	640	1260	2000		
Isolating characteristics to IEC/EN 60947				V AC	690	690	690	690	
Safe isolation to VDE 0106 Part 101 and Part 101/A1									
Safe isolation to VDE 0106 Part 101 and Part 101 A1 between auxiliary contacts and main contacts				V AC	440	440	440	440	
Switching angles				$^{\circ}$	90	90	90	90	
Contacts				Number	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)	
Current heat loss per contact at $I_e$				W	1.1	1.8	4.5	7.5	
<b>Terminal capacities</b>									
Solid or stranded				$\text{mm}^2$	1 x (1.5 - 6) 2 x (1.5 - 6)	1 x (1.5 - 6) 2 x (1.5 - 6)	1 x (2.5 - 35) 2 x (2.5 - 10)	1 x (2.5 - 35) 2 x (2.5 - 10)	
Flexible with ferrule to DIN 46228				$\text{mm}^2$	1 x (1 - 4) 2 x (1 - 4)	1 x (1 - 4) 2 x (1 - 4)	1 x (1.5 - 25) 2 x (1.5 - 6)	1 x (1.5 - 25) 2 x (1.5 - 6)	
Terminal screw					M4	M4	M5	M5	
Tightening torque				Nm	1.6	1.6	3	3	
<b>Switching capacity</b>									
<b>Alternating voltage</b>									
Rated making capacity $\cos \varphi = 0.35$				A	240	320	800	950	
Rated breaking capacity, motor load switch $\cos \varphi = 0.35$	230 V		A	190	260	640	760		
	400/415 V		A	150	300	600	740		
	500 V		A	170	290	590	880		
	690 V		A	150	250	340	520		
Rated operational current 440 V load-break switch AC-21A				$I_e$	A	25	32	63	100
AC-3 motor load switch motor rating	230 V	$P$	kW	5.5	7.5	15	22		
	400/415 V	$P$	kW	7.5	13	30	37		
	500 V	$P$	kW	7.5	18.5	30	45		
	690 V	$P$	kW	7.5	15	30	37		
AC-23A Motor load switches (main switches maintenance switches)	230 V	$P$	kW	7	8.5	18.5	30		
	400/415 V	$P$	kW	13	15	37	50		
	500 V	$P$	kW	11	18.5	37	65		
	690 V	$P$	kW	11	18.5	30	45		
<b>DC</b>									
DC-1, Load-break switches L/R = 1 ms	Rated operational current		$I_e$	A	25	32	63	100	
	Voltage per contact pair in series			V	60	60	60	60	
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current		$I_e$	A	25	25	50	50
		Contacts			Quantity	1	1	1	1
	48 V	Rated operational current		$I_e$	A	25	25	50	50
		Contacts			Quantity	2	2	2	2
	60 V	Rated operational current		$I_e$	A	25	25	50	50
		Contacts			Quantity	3	3	3	3
	120 V	Rated operational current		$I_e$	A	12	12	25	25
		Contacts			Quantity	3	3	3	3

**Notes** Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft  
 The rated uninterrupted current  $I_u$  is stated at max. connected cross-section.  
 For terminal capacity solid, stranded and flexible:  
 Max. 2 cross-section sizes difference admissible when using 2 conductors.



			P5-125	P5-160	P5-250	P5-315	
<b>General</b>							
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL switch disconnector according to IEC/EN 60947-3				
Lifespan, mechanical	Operations	$\times 10^6$	0.1	0.1	0.08	0.08	
Maximum operating frequency	Operations/h		50	50	50	50	
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30				
Ambient temperature	Open	$^{\circ}\text{C}$	-25...50	-25...50	-25...50	-25...50	
	Enclosed	$^{\circ}\text{C}$	-25...40	-25...40	-25...40	-25...40	
Mounting position			As required	As required	As required	As required	
<b>Contacts</b>							
Rated operational voltage	$U_e$	V AC	690	690	690	690	
Rated impulse withstand voltage	$U_{imp}$	V AC	8000	8000	8000	8000	
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3	
Rated uninterrupted current	$I_u$	A	125	160	250	315	
Load rating with intermittent operation, class 12	AB 60 % DF	$\times I_e$	1.3	1.3	1.3	1.3	
	AB 40 % DF	$\times I_e$	1.6	1.6	1.6	1.6	
	AB 25 % DF	$\times I_e$	2	2	2	2	
Short-circuit rating	Fuse	A gG/gL	125	160	250	315	
Rated short-time withstand current (1 s current)	$I_{cw}$	$A_{rms}$	2500	3000	4600	5800	
Isolating characteristics to IEC/EN 60947			690	690	690	690	
Safe isolation to VDE 0106 Part 101 and Part 101/A1							
Safe isolation to VDE 0106 Part 101 and Part 101 A1 between auxiliary contacts and main contacts			V AC	440	440	440	440
Switching angles			$^{\circ}$	90	90	90	90
Contacts			Number	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)
Current heat loss per contact at $I_e$			W	8	10	13	16
<b>Terminal capacities</b>							
Solid or stranded			$\text{mm}^2$	1 x (10 – 95) 2 x (10 – 35)	1 x (10 – 95) 2 x (10 – 35)	1 x (16 – 185) 2 x (16 – 70)	1 x (16 – 185) 2 x (16 – 70)
Copper band, 1 band			Number of segments $\times$ width $\times$ thickness	6 $\times$ 9 $\times$ 0.8		6 $\times$ 20 $\times$ 1	
Copper band, 2 bands			mm		6 $\times$ 9 $\times$ 0.8		6 $\times$ 9 $\times$ 0.8
Flexible with ferrule to DIN 46228			$\text{mm}^2$	1 $\times$ (16 – 70) 2 $\times$ (16 – 25)	1 $\times$ (16 – 70) 2 $\times$ (16 – 25)	1 $\times$ (25 – 120) 2 $\times$ (25 – 50)	1 $\times$ (25 – 120) 2 $\times$ (25 – 50)
Terminal screw				Allen screw 5	Allen screw 5	Allen screw 6	Allen screw 6
Tightening torque			Nm	14	14	16	16

**Notes** Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft  
 The rated uninterrupted current  $I_u$  is stated at max. connected cross-section.  
 For terminal capacity solid, stranded and flexible:  
 Max. 2 cross-section sizes difference admissible when using 2 conductors.

Switch-disconnectors, auxiliary contacts

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P5 **xCommand**

Rotary switches, switch-disconnectors

					P5-125	P5-160	P5-250	P5-315
<b>Switching capacity</b>								
Alternating voltage								
Rated making capacity $\cos \varphi = 0.35$		A			850	1050	1700	2050
Rated breaking capacity, motor load switch $\cos \varphi = 0.35$	230 V	A			800	900	1600	1800
	400 V	A			750	850	1380	1650
	500 V	A			650	850	1250	1550
	690 V	A			340	340	400	400
Rated operational current 440 V load-break switch AC-21A		$I_e$	A		125	160	250	315
AC-3 motor load switch motor rating	230 V	P	kW		22	30	37	45
	400 V	P	kW		37	45	55	75
	690 V	P	kW		30	37	45	45
AC-23A Motor load switches (main switches maintenance switches)	230 V	P	kW		30	30	37	55
	400 V	P	kW		45	55	90	110
	690 V	P	kW		37	37	45	45
DC								
DC-1, Load-break switches L/R = 1 ms	Rated operational current	$I_e$	A		125	160	250	315
DC-1, Load-break switches L/R = 1 ms	Voltage per contact pair in series		V		42	42	42	42
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current	$I_e$	A	125	160	250	315
		Contacts		Quantity	3	3	3	3
	48 V	Rated operational current	$I_e$	A	125	160	250	315
		Contacts		Quantity	3	3	3	3
	60 V	Rated operational current	$I_e$	A	125	160	250	315
		Contacts		Quantity	3	3	3	3
120 V	Rated operational current	$I_e$	A	40	50	80	100	
	Contacts		Quantity	3	3	3	3	

**Notes** Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft  
 The rated uninterrupted current  $I_u$  is stated at max. connected cross-section.  
 For terminal capacity solid, stranded and flexible:  
 Max. 2 cross-section sizes difference admissible when using 2 conductors.



				HI...-P1(P3)...	HI...-P5...
<b>Auxiliary contacts</b>					
Standards				Control circuit isolators to IEC/EN 60947-5⊖	
Rated insulation voltage	$U_i$	V AC		500	500
Rated uninterrupted current	$I_u$	A		10	10
Rated operational current					
AC-15 with 230 V	$I_e$	A		6	6
380 V/415 V	$I_e$	A			3
DC-13					
125 V	$I_e$	A		1.1	0.23
250 V	$I_e$	A		0.55	0.1
Short-circuit rating					
Maximum fuse		A gG/gL		10	10
Terminal capacities					
Solid		mm <sup>2</sup>		0.75 – 2.5	0.75 – 2.5
Flexible with ferrule to DIN 46228		mm <sup>2</sup>		0.5 – 1.5	0.5 – 2.5
Tightening torque					
		Nm		0.6	0.8
Control circuit reliability at 24 V DC, 10 mA				Fault probability	$H_f$
					< 10 <sup>-5</sup> , < 1 fault in 100 000 operations

xCommand T

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			T0-...	T3-...
<b>General</b>				
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60947-3	
Lifespan, mechanical	Operations	$\times 10^6$	1	0.5
Maximum operating frequency	Operations/h		3000	3000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30	
Ambient temperature				
Open		°C	25...50	25...50
Enclosed		°C	25...40	25...40
Mounting position			As required	As required
Mechanical shock resistance to IEC 60068-2-27	Half-sinusoidal shock 20 ms	g	> 15	> 15
<b>Contacts</b>				
Rated operational voltage	$U_e$	V AC	690	690
Rated impulse withstand voltage	$U_{imp}$	V AC	6000	6000
Overvoltage category/pollution degree			III/3	III/3
Rated uninterrupted current				
open	$I_u$	A	20	32
Enclosed	$I_u$	A	20	32
Load rating with intermittent operation, class 12				
AB 25 % DF		$\times I_e$	2	2
AB 40 % DF		$\times I_e$	1.6	1.6
AB 60 % DF		$\times I_e$	1.3	1.3
Short-circuit rating				
Fuse		A gG/gL	20	35
Rated short-time withstand current (1 s current)	$I_{cw}$	A <sub>rms</sub>	320	650
Safe isolation to VDE 0106 Part 101 and Part 101/A1 between the contacts		V AC	440	440
Switching angles				
		°	90 60 45 30	90 60 45 30
Contact units				
Double-break contacts			max. 22	max. 22
Current heat loss per contact at $I_e$		W	0.6	1.1
<b>Terminal capacities</b>				
Solid or stranded		mm <sup>2</sup>	1 × (1 – 2.5) 2 × (1 – 2.5)	1 × (1 – 6) 2 × (1 – 6)
Flexible with ferrule to DIN 46228		mm <sup>2</sup>	1 × (0.75 – 1.5) 2 × (0.75 – 1.5)	1 × (0.75 – 4) 2 × (0.75 – 4)
Flat conductor connection with busbars		mm <sup>2</sup>		
Terminal screw			M3.5	M4
Tightening torque		Nm	1	1.6

**Notes** For mechanical shock resistance: T3.../I... >12g  
Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947  $U$  for rated operational voltage up to 500 V AC  
Applies to rated uninterrupted current  $I_u$  of the contact: with T5-4-8344/I5 max. 95 A  
For terminal capacity solid, stranded and flexible:  
T0(3), (6), (8)...: Maximum of 2 cross-section sizes difference admissible between 2 conductors  
T5(B)-...: Maximum of 1 cross-section size difference admissible between 2 conductors  
For type T8-3-8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3

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T xCommand

T5B-...	T5-...	T6-3-8212/E/HI12	T6-160-...	T8-...
IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60947-3				
0.5	0.5	0.1	0.1	0.1
3000	3000	50	50	50
Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30				
25...50	25...50	25...50	25...50	25...50
25...40	25...40	25...40	25...40	25...40
As required	As required	As required	As required	As required
> 15	> 15			
690	690	690	690	690
6000	6000	6000	8000	8000
III/3	III/3	III/3	III/3	III/3
63	100	125	160	315
63	100	125	160	275
2	2	2	2	2
1.6	1.6	1.6	1.6	1.6
1.3	1.3	1.3	1.3	1.3
80	100	200	160	315
1300	1850	2000	3000	4200
440	440			
90	90	90	90	90
60	60	60	60	60
45	45			
30	30			
10	10	3	3	3
max. 20	max. 20	max. 6	max. 6	max. 6
4.5	7.5	11	11	11
1 × (2.5 – 35) 2 × (2.5 – 16)	1 × (2.5 – 35) 2 × (2.5 – 16)	1 × 70 2 × 25	1 × 95 2 × 25	150
1 × (1.5 – 25) 2 × (1.5 – 10)	1 × (1.5 – 25) 2 × (1.5 – 10)	1 × 50 2 × 16	1 × 50 2 × 16	120
				1 × (25 × 5) 2 × (20 × 3)
M6	M6	M6	M5, Allen key	M12
4	4	5.6	14	25

			T0-...	T3-...		
<b>Switching capacity</b>						
Alternating voltage						
Rated making capacity $\cos \varphi = 0.35$		A	130	320		
Rated breaking capacity, motor load switch $\cos \varphi = 0.35$	230 V	A	100	260		
	400 V	A	110	260		
	500 V	A	80	240		
	690 V	A	60	170		
Rated operational current 440 V load-break switch AC-21A		$I_e$	20	32		
AC-3 motor load switch motor rating	230 V	P	kW	3	6.5	
	230 V Star-delta	P	kW	4	11	
	400/415 V	P	kW	4	12	
	400 V Star-delta	P	kW	5.5	18.5	
	500 V	P	kW	5.5	15	
	500 V Star-delta	P	kW	7.5	22	
	690 V	P	kW	4	15	
	690 V Star-delta	P	kW	5.5	22	
AC-23A Motor load switches (main switches maintenance switches)	230 V	P	kW	3.5	7.5	
	400/415 V	P	kW	6.5	13	
	500 V	P	kW	13	15	
	690 V	P	kW			
Rated operational current control switch AC-15	230 V	$I_e$	A	6	10	
	400/415 V	$I_e$	A	4	6	
	500 V	$I_e$	A	2	4	
DC						
DC-1, Load-break switches L/R = 1 ms	Rated operational current	$I_e$	A	10	25	
	Voltage per contact pair in series		V	60	60	
DC-21A	Rated operational current 240 V	$I_e$	A	1	1	
	240 V Contacts		Quantity	1	1	
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current	$I_e$	A	10	25
		Contacts		Quantity	1	1
	48 V	Rated operational current	$I_e$	A	10	25
		Contacts		Quantity	2	2
	60 V	Rated operational current	$I_e$	A	10	25
		Contacts		Quantity	3	3
	120 V	Rated operational current	$I_e$	A	5	12
		Contacts		Quantity	3	3
	240 V	Rated operational current	$I_e$	A	5	5
		Contacts		Quantity	5	5
	DC-13, Control switches L/R = 50 ms	Rated operational current	$I_e$	A	10	20
		Voltage per contact pair in series		V	32	32
Control circuit reliability at 24 V DC, 10 mA		Fault probability	$H_f$	< $10^{-5}$ , < 1 fault in 100000 operations		
<b>Auxiliary contacts</b>						
Standards						
Rated insulation voltage		$U_i$	V AC	-	-	
Rated uninterrupted current		$I_u$	A	-	-	
Rated operational current						
AC-15 with 230 V		$I_e$	A	-	-	
380 V/415 V		$I_e$	A	-	-	
Short-circuit rating						
Maximum fuse			A gG/gL	-	-	
Terminal capacities						
Solid			mm <sup>2</sup>	-	-	
Flexible with ferrule to DIN 46228			mm <sup>2</sup>	-	-	
Tightening torque						
Control circuit reliability at 24 V DC, 10 mA			$H_f$	-	-	

T5B-...	T5-...	T6-3-8212/E/HI12	T6-160-...	T8-...
800	950	1600	1600	2390
520	760	1280	1280	1910
600	740	900	900	1800
480	590	880	880	1200
340	420	340	340	420
63	100	125	160	315
15	22	22	22	22
22	30	22	22	37
22	30	37	45	55
37	45	37	45	55
22	37	37	37	37
37	55	37	37	37
22	30	22	22	37
37	45	22	22	37
15	18.5	37	37	75
22	30	45	55	132
22	37	55	55	75
22	30	30	30	37
16	16	-	-	-
6	6	-	-	-
4	4	-	-	-
63	80	125	125	315
60	60	42	42	42
50	-	125	125	250
1	-	1	1	1
50	-	125	125	250
2	-	2	2	2
50	-	125	125	125
3	-	3	3	3
25	-	50	50	50
3	-	3	3	3
20	-	-	-	-
6	-	-	-	-
25	-	125	125	250
24	-	24	24	-
< $10^{-5}$ , < 1 fault in 100000 operations				
Control circuit isolators to IEC/EN 60947-5②				
-	-	500	500	-
-	-	10	10	-
-	-	6	6	-
-	-	4	4	-
-	-	10	10	-
-	-	0.75 - 2.5	0.75 - 2.5	-
-	-	0.5 - 1.5	0.5 - 1.5	-
-	-	0.35	0.35	-
-	-	< $10^{-5}$ , < 1 fault in 100 000 operations		

				TM
<b>General</b>				
Standards				IEC/EN 60947, VDE 0660 UL, CSA Control switches to IEC/EN 60947-5-1 Control circuit isolators to IEC/EN 60947-5-1
Control circuit isolators (IEC/EN 60947-5-1)				Maximum 6 contacts; switching angle 90°
Lifespan, mechanical	Operations	× 10 <sup>6</sup>		1
Maximum operating frequency	Operations/h			3000
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature				
Open		°C		-25...50
Enclosed		°C		-25...40
Mounting position				As required
Terminal capacities				
Solid		mm <sup>2</sup>		1 × 1,5 2 × 1,5
Flexible without ferrule		mm <sup>2</sup>		1 × 1,5 2 × 1,5
Solid or stranded		AWG		1 × 14 2 × 14
Flexible		AWG		1 × 16 2 × 16
Terminal screw				M2.5
Tightening torque		Nm		0.35
<b>Contacts</b>				
Mechanical variables				
Contacts		Number		Max. 16
Contact units				8
Switching angles		°		90 60 45 30
Min. switching angle for On-Off-On		°		60
Max. number of switch positions				≤ 12
Thickness of gold coating		µm		35
Electrical characteristics				
Rated operational voltage	$U_e$	V AC		500
Rated impulse withstand voltage	$U_{imp}$	V AC		4000
Overvoltage category/pollution degree				III/3
Rated insulation voltage	$U_i$	V AC		500
Rated insulation voltage for UL/CSA		V AC		300
Rated uninterrupted current	$I_u$	A		10
Switching capacity				
AC-23 Motor load switches	230 V AC, 3-pole		kW	1.8
	440 V AC, 3-pole		kW	3
	230 V AC, 1-pole		kW	0.75
	440 V AC, 1-pole		kW	1.1
AC-15 Control switches	230 V AC, 1-pole		A	2.5
	400 V AC, 1-pole		A	1.5
	440 V AC, 1-pole		A	1
DC-1 Load-break switches	1 – 24 V DC		A	10
	110 ... 240 V DC		A	0.7 – 0.3
DC-13, Control switches L/R = 50 ms	Rated operational current	$I_e$	A	3
	Voltage per contact pair in series		V	32
Switching capacity (UL489, CSA 22.2 No. 5.1)	240 V AC, 3-pole		HP	1
	277 V AC, 1-pole		HP	¾
	300 V AC Heavy duty		A	10
Max. short-circuit protective device				
Fuse			A gG/gL	10
Control circuit reliability at 24 V DC, 10 mA		Fault probability	$H_f$	< 10 <sup>-5</sup> , < 1 fault in 100000 operations

		CI-K1	CI-K2	CI-K3	CI-K4	CI-K5
<b>General</b>						
Standards		IEC/EN 60529 DIN 43660 EN 50262				
Climatic proofing		Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30				
Ambient temperature	°C	-25...70				
Ambient temperature with push-through cable entry	°C	-25...40				
Protection type		IP 65	IP 65	IP 65	IP 65	IP 65
Degree of protection with push-through cable entry		IP 65	IP 65	IP 65	IP 65	IP 65
Dissipatable heat loss		→ Chapter 14, Technical data				
<b>Material characteristics</b>						
Material						
Base, Cover		Glass-fibre reinforced polycarbonate				
Surface treatment		Resistant to corrosion				
Colour						
Base		RAL 9005, black (matt)				
Cover		Enclosure cover RAL 7035, light grey (matt)				
<b>Material properties</b>						
Electrical						
Creepage resistance to IEC 60112						
Base		CTI175				
Cover		CTI175				
Surface resistance to IEC 60093	$\Omega \times 10^{13}$	1				
Dielectric strength to IEC 60243-1	kV/mm	30				
Thermal						
Continuous thermal stability						
Enclosures	°C	-40...120				
Gasket	°C	-40...80				
Mechanical						
IK code to EN 50102		Please enquire				
Weight of components fitted						
per mounting rail	kg	0.2	0.7	0.85	0.75	0.65
with mounting plate	kg			0.85	0.9	1
Chemical resistance						
Base, Cover						
Resistant		Acids < 10 %, mineral oil, petrol, grease, saline solution				
Partially resistant		Acids > 10 %, alcohol				
Not resistant		Alkalis, benzol				
Push-through membrane (CI-K1/CI-K2) and sealing material						
Resistant		Acids < 10 %, alkalis, alcohol, saline solution				
Partially resistant		Acids < 10 %, grease, benzol				
Not resistant		Mineral oil, petrol				
Atmospheric						
Saline spray		IEC 60068-2-11				
UV resistance		Beneath protective shield				
Water consumption to DIN EN ISO 62	%	0.29	0.29	0.29	0.29	0.29
Flammability characteristics						
Glow wire test						
Base, Cover						
Glow wire to VDE 0471 Part 2 to UL 94	°C	Thickness 960/1 mm VO/1.5 mm thick				
Push-through membrane (CI-K1/CI-K2) and sealing material						
To IEC 2 to UL 94	°C	650/1 mm thick HB				
Halogen free		Yes				

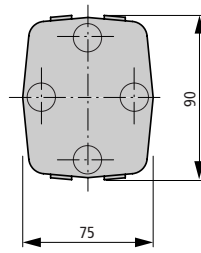
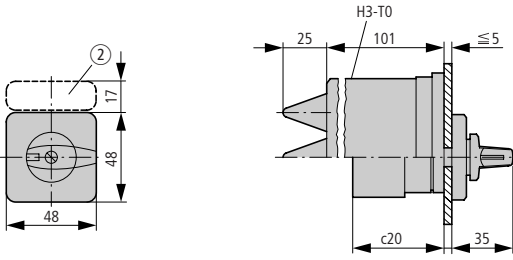




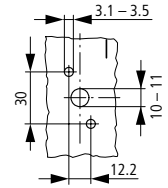
**xCommand** T0, T3

Flush mounting

T0.../E (+ H3-T0)  
T3.../E (+ H3-T0)

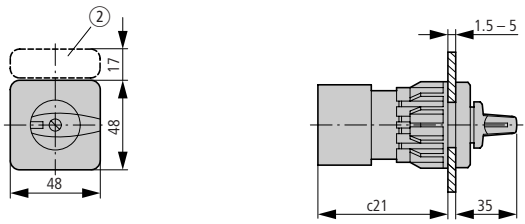


Drilling dimensions



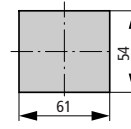
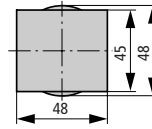
Centre mounting

T0.../EZ  
T3.../EZ

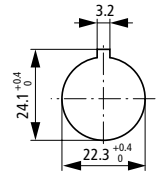


T0

T3



Drilling dimensions



Part no.	c20	c21
T0-1...	41	61
T0-2...	50	70
T0-3...	60	80
T0-4...	69	89
T0-5...	79	99
T0-6...	88	108
T0-7...	98	118
T0-8...	107	127
T0-9...	117	137
T0-10...	126	146
T0-11...	136	156

One contact unit depth 9.5 mm

Part no.	c20	c21
T3-1...	44	64
T3-2...	56	76
T3-3...	67	87
T3-4...	79	99
T3-5...	90	110
T3-6...	102	122
T3-7...	113	133
T3-8...	125	145
T3-9...	136	156
T3-10...	148	168
T3-11...	159	179

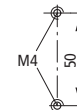
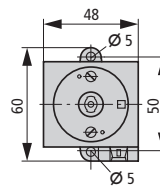
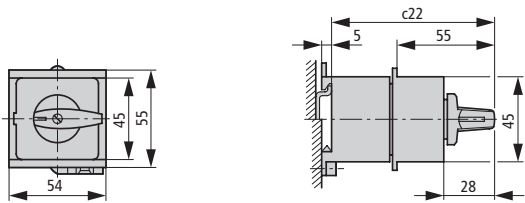
One contact unit depth 11.5 mm

② Not included as standard

Service distribution board mounting

T0.../IVS

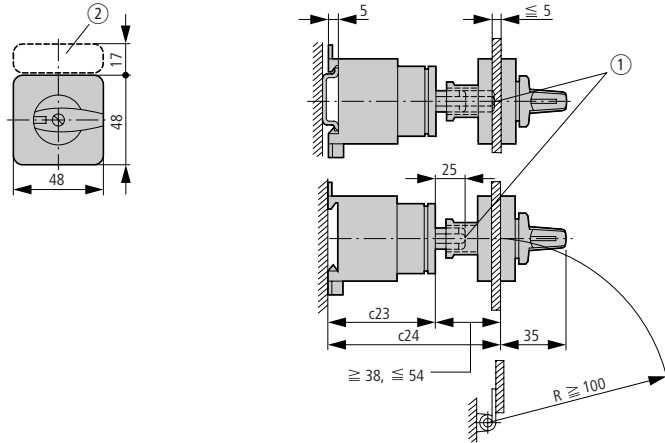
Drilling dimensions  
base



**Rear mounting**

T0.../Z  
T3.../Z

① Extension possible with ZAV-T0  $\cong 4 \times 25 = 100$  mm



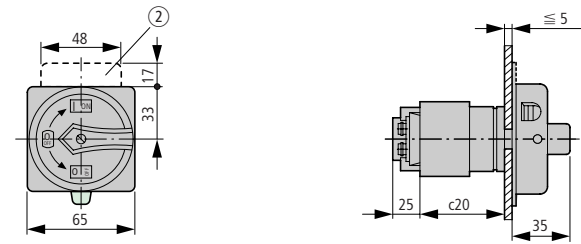
Part no.	c20	c21	c22	c23	c24 $\cong/\leq$	c24 with $\cong 4$ ZAV	c25
T0-1...	41	61	77	48	86 - 102	202	72
T0-2...	50	70	87	57	96 - 112	212	72
T0-3...	60	80	96	67	105 - 121	221	91
T0-4...	69	89	106	76	115 - 131	231	91
T0-5...	79	99	115	86	124 - 140	240	-
T0-6...	88	108	125	95	134 - 150	250	-
T0-7...	98	118	134	105	143 - 159	259	-
T0-8...	107	127	144	114	153 - 169	269	-
T0-9...	117	137	154	124	162 - 178	278	-
T0-10...	126	146	163	133	172 - 188	288	-
T0-11...	136	156	173	143	181 - 197	297	-

One contact unit depth 9.5 mm

② Not included as standard

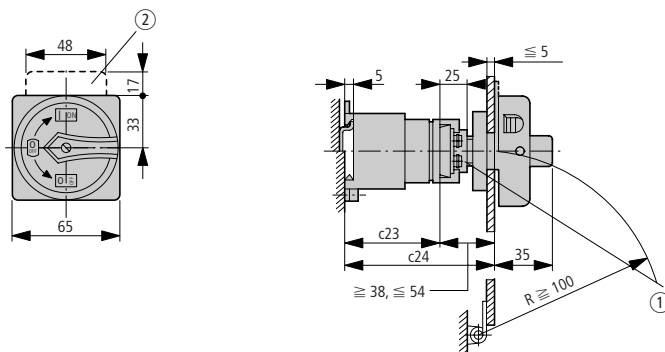
**Flush mounting main switch**

T0.../EA/SVB  
T3.../EA/SVB



**Rear mounting main switch**

T0.../V/SVB  
T3.../V/SVB

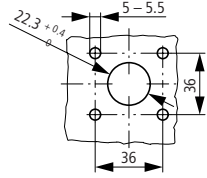
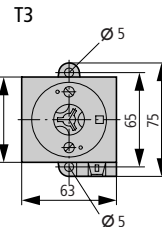
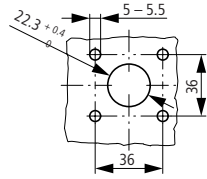
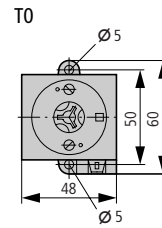


① Interlock extension possible with ZVV-T0 + ZAV-T0,  $\cong 4 \times 25 = 100$  mm

② Not included as standard

Drilling dimensions  
base

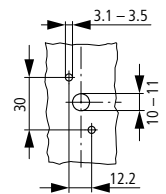
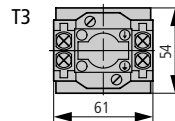
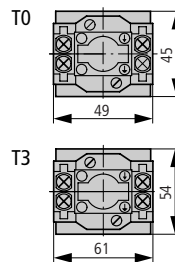
Drilling dimensions  
door



Part no.	c20	c21	c22	c23	c24 $\cong/\leq$	c24 with $\cong 4$ ZAV	c25
T3-1...	44	64	80	51	86 - 105	205	79
T3-2...	56	76	92	63	101 - 115	216	79
T3-3...	67	87	103	74	112 - 128	228	101
T3-4...	79	99	115	86	124 - 139	239	101
T3-5...	90	110	126	97	135 - 151	251	-
T3-6...	102	122	138	109	147 - 162	262	-
T3-7...	113	133	149	120	158 - 174	274	-
T3-8...	125	145	161	132	170 - 185	285	-
T3-9...	136	156	172	143	181 - 196	296	-
T3-10...	148	168	184	155	193 - 208	308	-
T3-11...	159	179	195	166	204 - 219	319	-

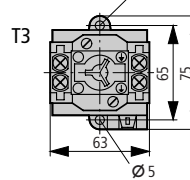
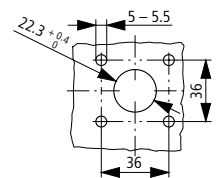
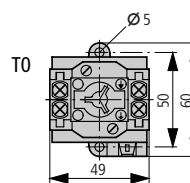
One contact unit depth 11.5 mm

Drilling dimensions  
door



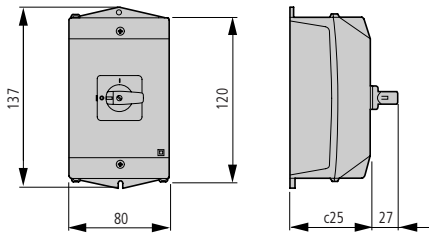
Drilling dimensions  
base

Drilling dimensions  
door

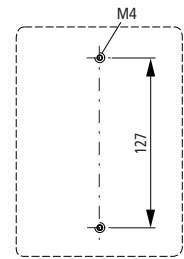


**xCommand** T0, T3

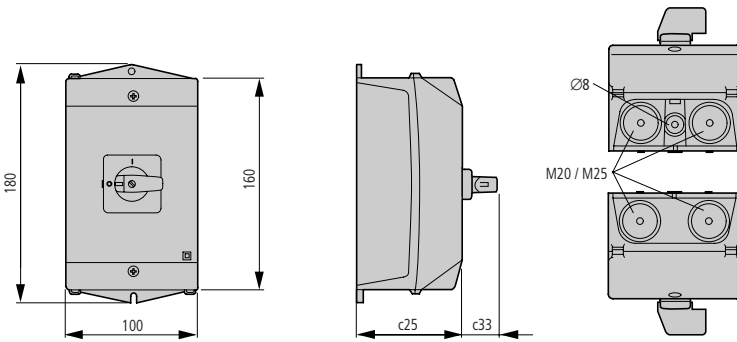
Surface mounting  
T0.../11



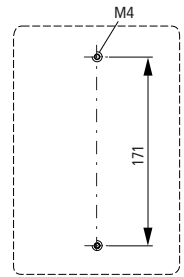
Drilling dimensions  
base



T3.../12

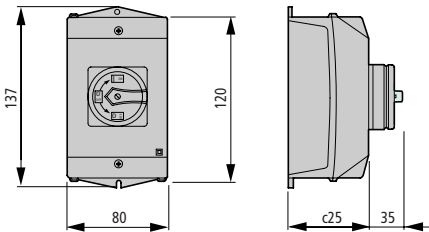


Drilling dimensions  
base

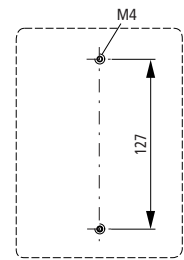


Surface mounting main switch

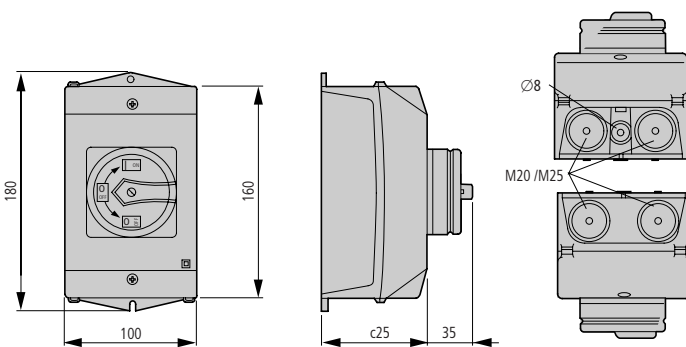
T0.../11/SVB



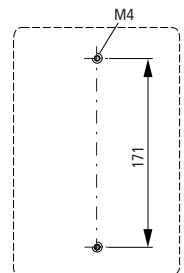
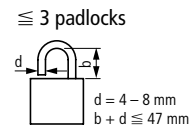
Drilling dimensions  
base



T3.../12/SVB



Drilling dimensions  
base



Part no.	c25
T0-1...	75
T0-2...	75
T0-3...	95
T0-4...	95

Part no.	c25	c33
T3-1...	80	27
T3-2...	80	27
T3-3...	100	35
T3-4...	100	35
T3-5...	145	35

Rotary switches, switch-disconnectors, accessories

http://catalog.moeller.net

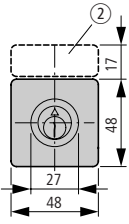
Moeller HPL0211-2007/2008

T0, T3, P1, P3 **xCommand**

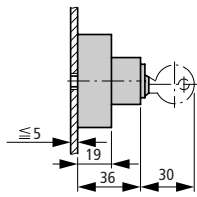
Rotary switches, switch-disconnectors

Key operation

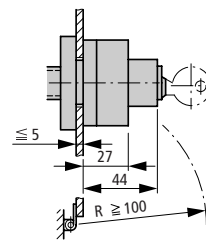
S-T0  
S-SOND...-T0



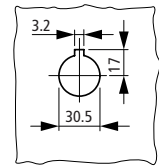
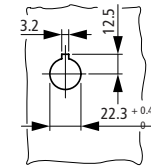
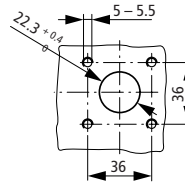
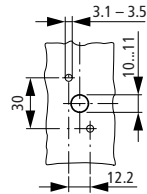
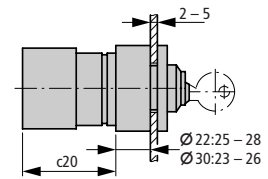
T0.../E(I1) + S-(SOND-)T0  
T3.../E(I2) + S-(SOND-)T0



T0.../Z + S-(SOND-)T0  
T3.../Z + S-(SOND-)T0

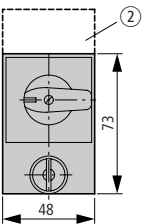


T0.../EZ Δ T0.../E + EZ-T0 + S-(SOND-)T0  
T3.../EZ Δ T3.../E + EZ-T0 + S-(SOND-)T0

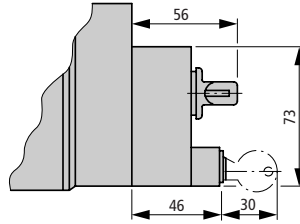


Cylinder lock

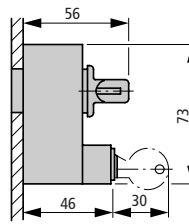
SVA-T3



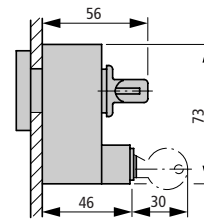
T0.../I1/SVA  
T3.../I2/SVA  
P1.../I2/SVA



T0.../E/SVA...  
T3.../E/SVA...  
P1.../E/SVA

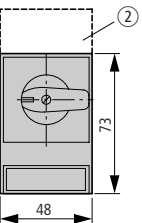


T0.../Z/SVA...  
T3.../Z/SVA...  
P1.../Z/SVA

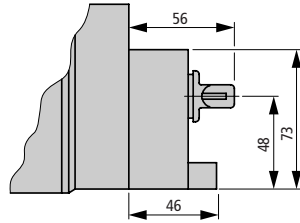


Padlocking feature

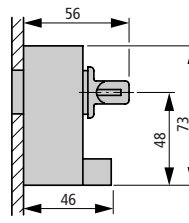
SVC-T3



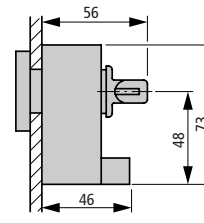
T0.../I1/SVC  
T3.../I2/SVC  
P1.../I2/SVC



T0.../E/SVC...  
T3.../E/SVC...  
P1.../E/SVC

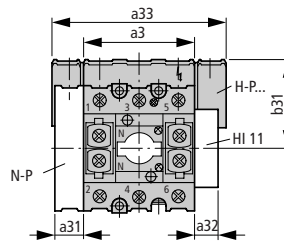
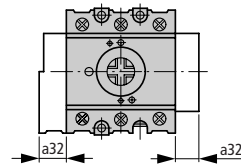
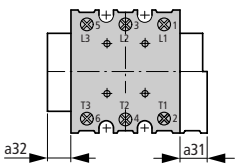


T0.../Z/SVC...  
T3.../Z/SVC...  
P1.../Z/SVC

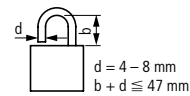


Modules

Switched neutral N-P...  
Auxiliary contact HI 11-P1/P3



≧ 3 padlocks



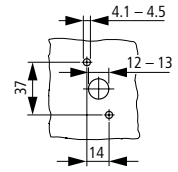
Part no.	a3	a31	a32	a33	b31
P1-...	49	15	15	83	49
P3-..	72	18	15	114	60

② Not included as standard

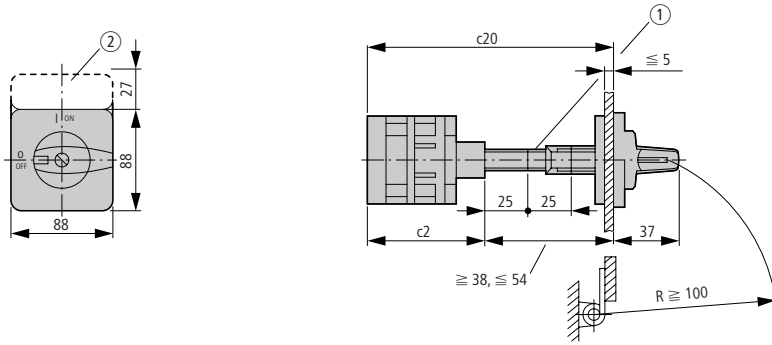
**Flush mounting**  
T5(B).../E



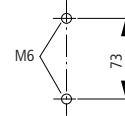
Drilling dimensions  
door



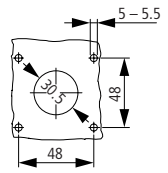
**Rear mounting**  
T5(B).../Z



Drilling dimensions  
base

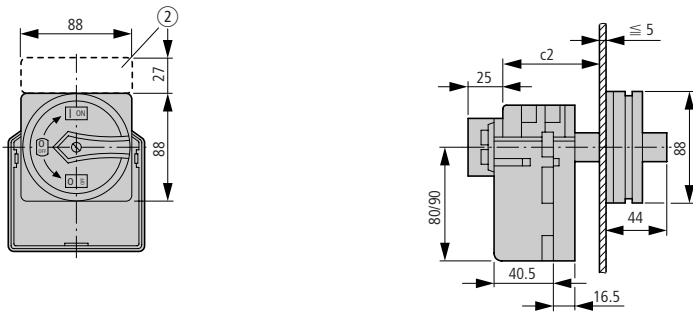


Drilling dimensions  
door

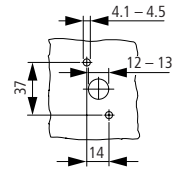


① Shaft extension possible with ZAV-P3  $\cong 4 \times 25 = 100$  mm

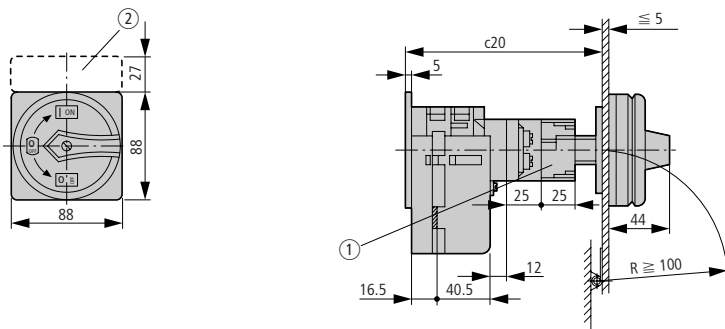
**Flush mounting main switch**  
T5(B).../EA/SVB



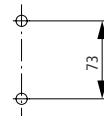
Drilling dimensions  
door



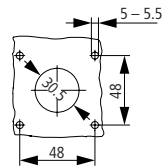
**Rear mounting main switch**  
T5(B).../V/SVB



Drilling dimensions  
base



Drilling dimensions  
door



Part no.	c2	c20 $\cong/\cong$	c20 with $\cong 4$ ZAV	c21	c22
T5(B)-1...	54	92 - 107	207	90	125 (95)
T5(B)-2...	71	109 - 124	224	90	125 (95)
T5(B)-3...	87	125 - 140	240	123	160 (160)
T5(B)-4...	104	142 - 157	257	123	160 (160)
T5(B)-5...	120	158 - 173	273	-	-
T5(B)-6...	137	175 - 190	290	-	-
T5(B)-7...	153	191 - 206	306	-	-
T5(B)-8...	170	208 - 223	323	-	-
T5(B)-9...	186	224 - 239	339	-	-
T5(B)-10...	203	240 - 356	356	-	-

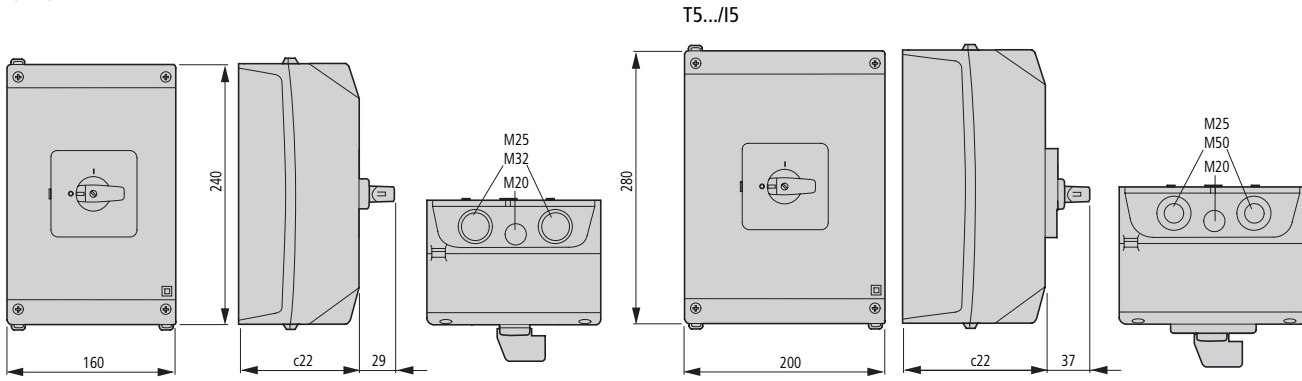
One contact unit depth 16.5 mm

① Extension possible with ZVV-P3,  $\cong 4 \times 25 = 100$  mm

② Not included as standard

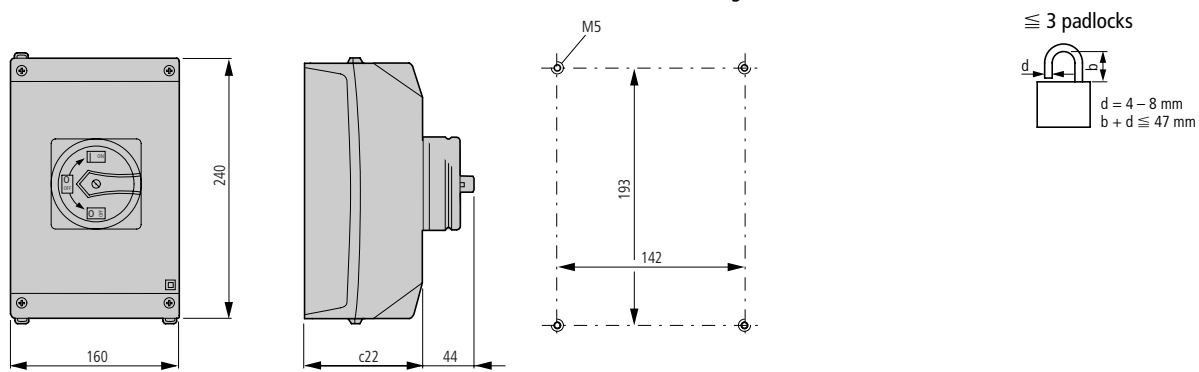
Rotary switches T5B and T5 are same size, only thier contacts are different

### Surface mounting T5B.../I4

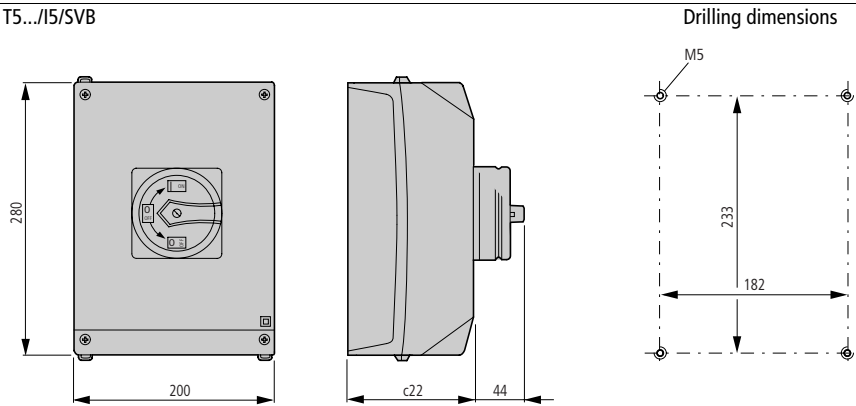


### Surface mounting main switches

#### T5B.../I4/SVB

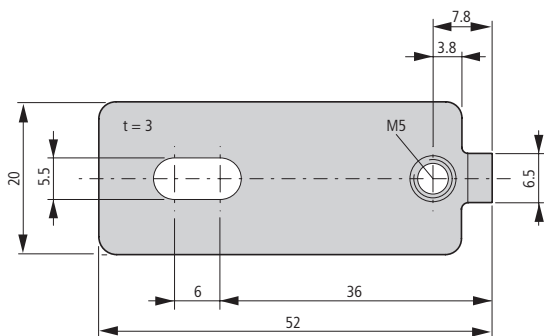


#### T5.../I5/SVB



### External fixing bracket

#### AB-CI-K415



Part no.	c22
T5(B)-1...	125
T5(B)-2...	125
T5(B)-3...	160
T5(B)-4...	160

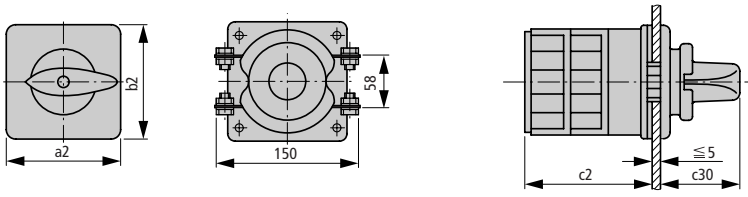
One contact unit depth 16.5 mm

Rotary switches T5B and T5 are same size,  
only thier contacts are different

**xCommand** T6, T8

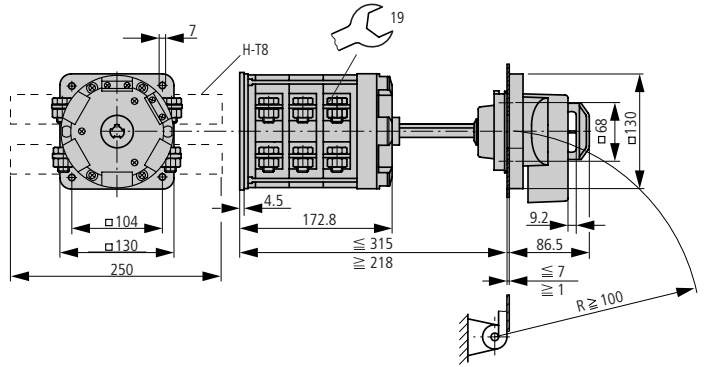
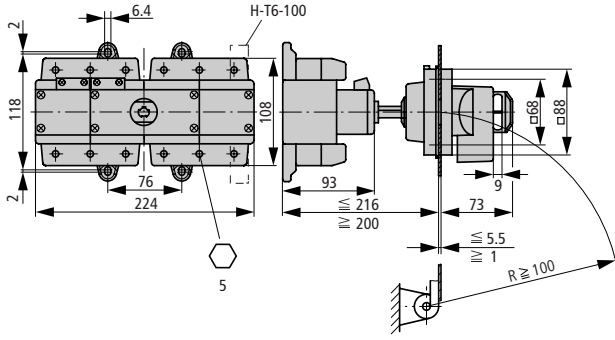
Flush mounting

T6-3-8212/E/HI12  
T8.../E/HI12



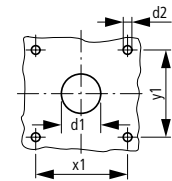
T6-160-6/V/SVB-SW/HI11

T8-3-8342/V/SVB-SW/HI11



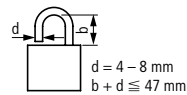
Part no.	a2	b2	c2	c30	d1	d2	x1	y1
T6-3-8212/E/HI12	88	88	152	44	∅ 26 - 30	∅ 6.0	68	68
T8.../E/HI12	130	130	173	62	∅ 22 - 25	∅ 7.0	104	104
T8.../SVB	-	-	-	-	∅ 26 - 30	∅ 7.0	68	68

Drilling dimensions  
door



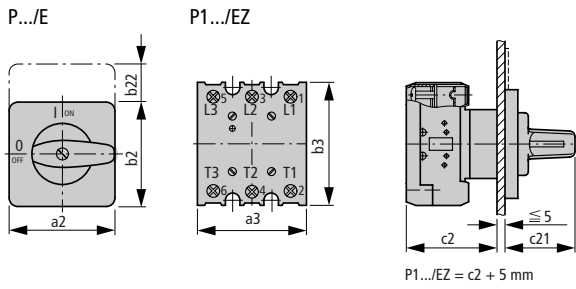
T6: 4 M5 × 20  
T8: 4 M6 × 20

≅ 3 padlocks for T.../SVB

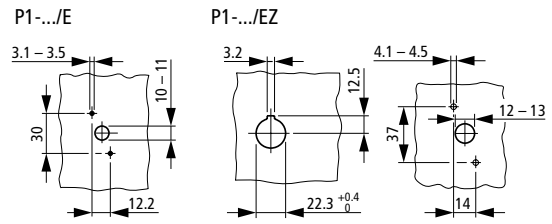




**Flush mounting    Centre mounting**

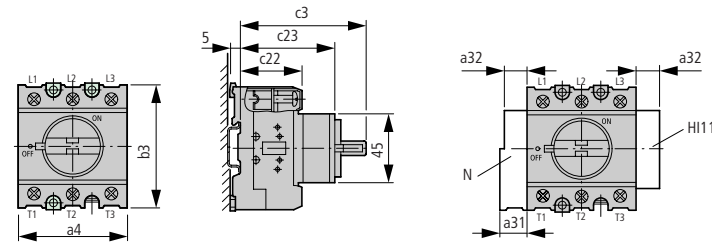


**Drilling dimensions  
Door**



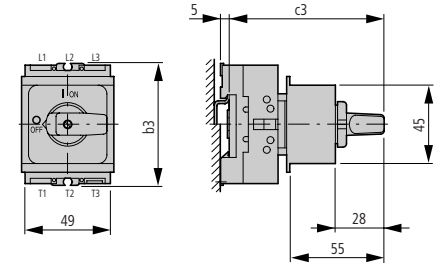
**Service distribution board mounting**

P3.../IVS



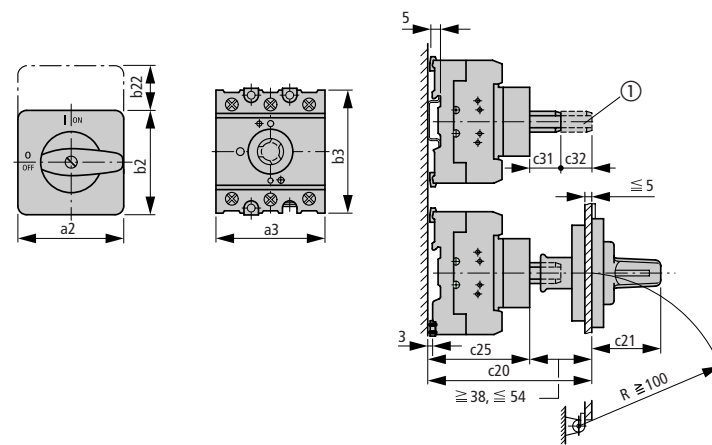
≅ 3 padlocks

P1.../IVS



**Rear mounting**

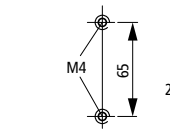
P.../Z



**Drilling dimensions**

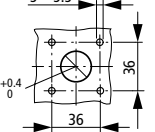
**Bottom**

P1.../Z

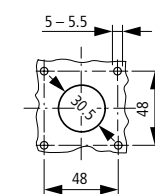
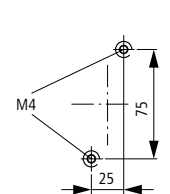


**Door**

P1.../Z



P3.../Z



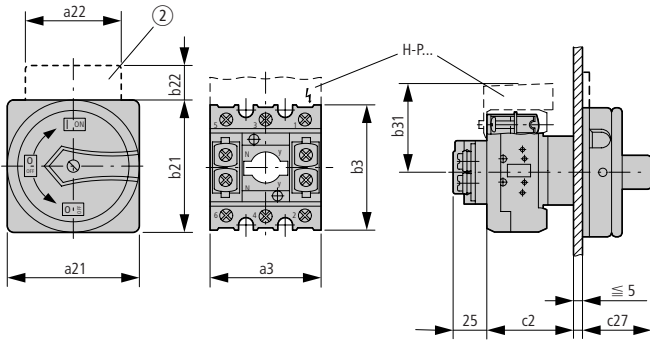
① Shaft extension possible with ZAV... ≅ 4 × 25 = 100 mm

Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1	48	49	53.5	65	48	87	15	15	83	48	70	65	17	180	32	49
P3	87	72	71.5	87	87	125	18	15	114	87	83	87	27	175	-	60

Part no.	c2	c3	c20 ≅/≅	c20 with ≅ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1	59	86	96 - 112	212	35	32	65	68	58	35	77	25	25	27
P3	59	82	103 - 118	218	37	41	63	81	65	44	90	25	25	29

Flush mounting main switches

P.../EA/SVB

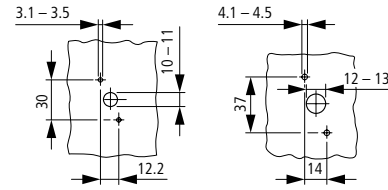


Drilling dimensions

Door

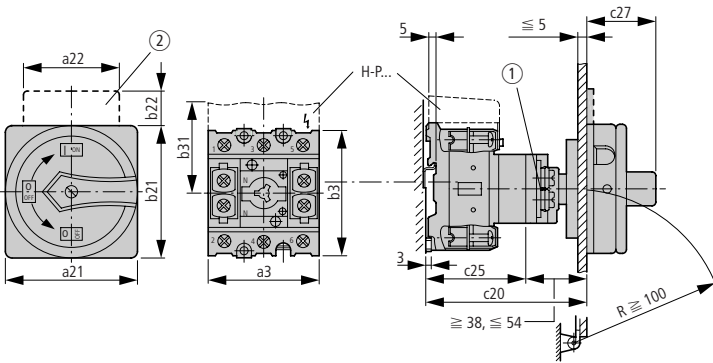
P1...

P3...



Rear mounting main switches

P.../V/SVB

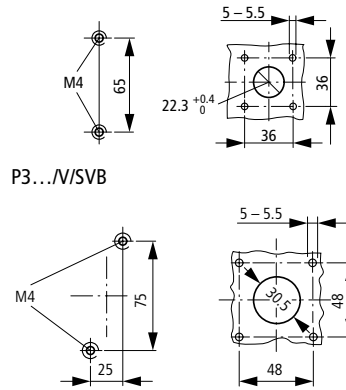


Drilling dimensions

Bottom

P1.../V/SVB

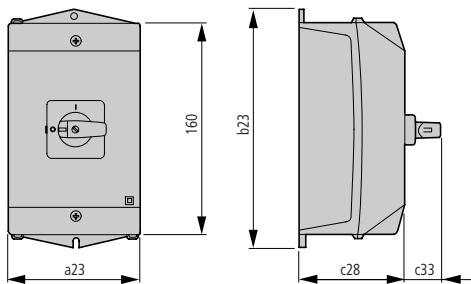
Door



- ① Interlock extension possible with ZVV...+ZAV... ≅ 4 × 25 = 100 mm
- ② Not included as standard

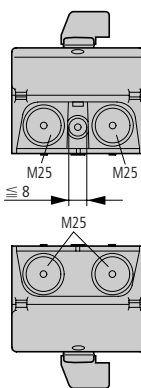
Layout

P1.../I2

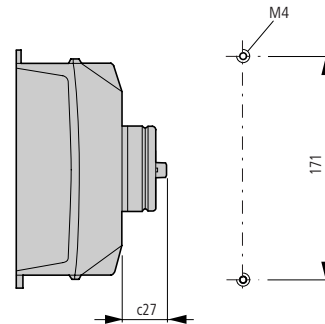


Surface mounting main switches/safety switches

P1.../I2/SVB  
P1.../I2/SI



Drilling dimensions

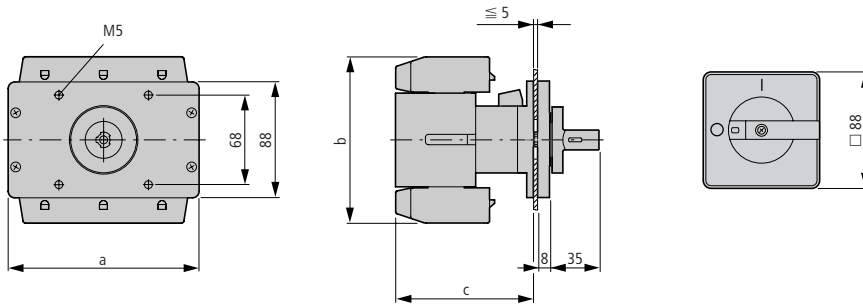


Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1.../I2	48	49	53.5	65	48	100	15	15	83	48	70	65	17	180	35.5	49

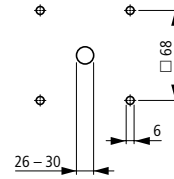
Part no.	c2	c3	c20 ≅/≅	c20 with ≅ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1...	59	86	96 - 112	212	35	32	65	68	58	35	80	25	25	27

**Flush mounting**

P5.../E

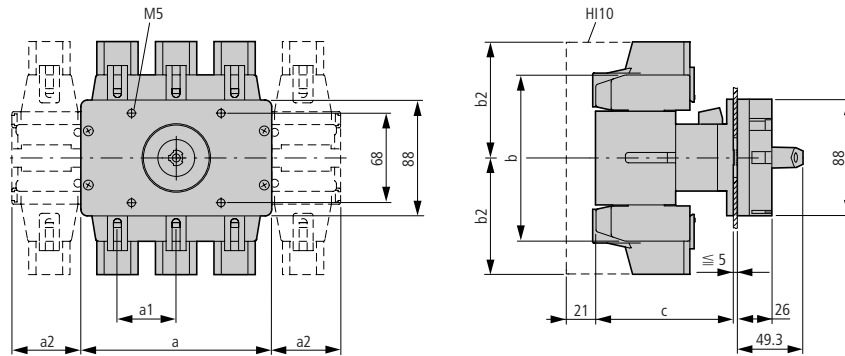


Drilling dimensions



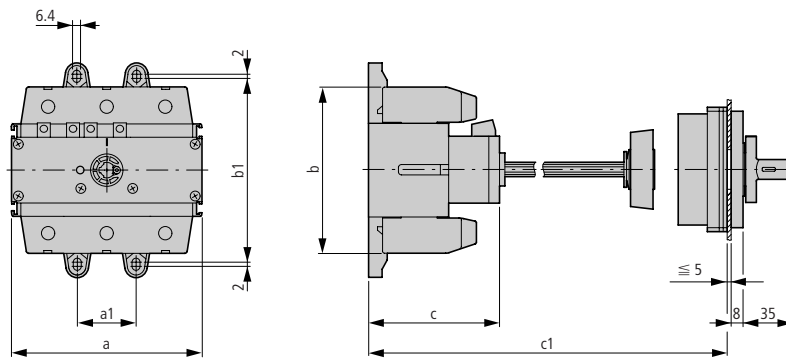
**Flush mounting main switches**

P5.../EA/SVB(-SW)

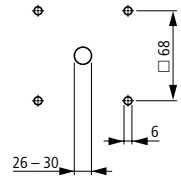


**Rear mounting**

P5.../Z

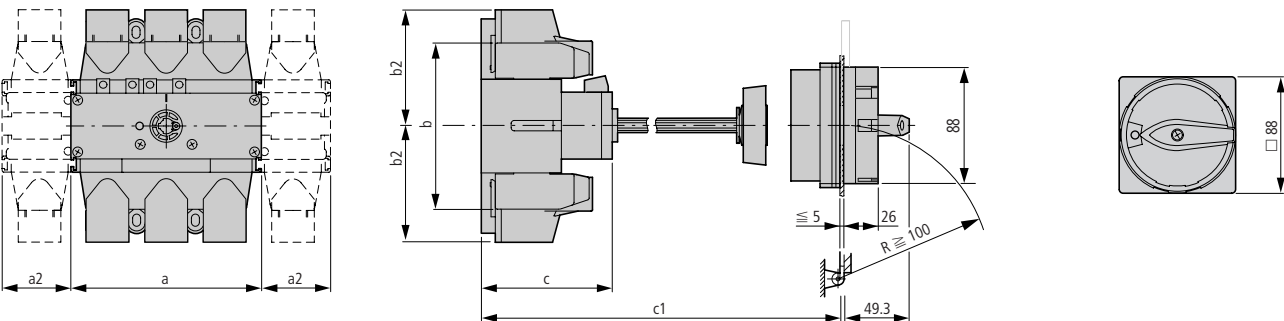


Drilling dimensions



**Rear mounting main switches**

P5.../V/SVB(-SW)



Part no.	a	a1	a2	b	b1	b2	c	c1
P5-125/160	112	36	38	108	120	76	91	≙ 130 ≙ 287
P5-250/315	145	44	52.5	126	144	88	98	≙ 140 ≙ 280

**xCommand P3**

Moeller HPL0211-2007/2008

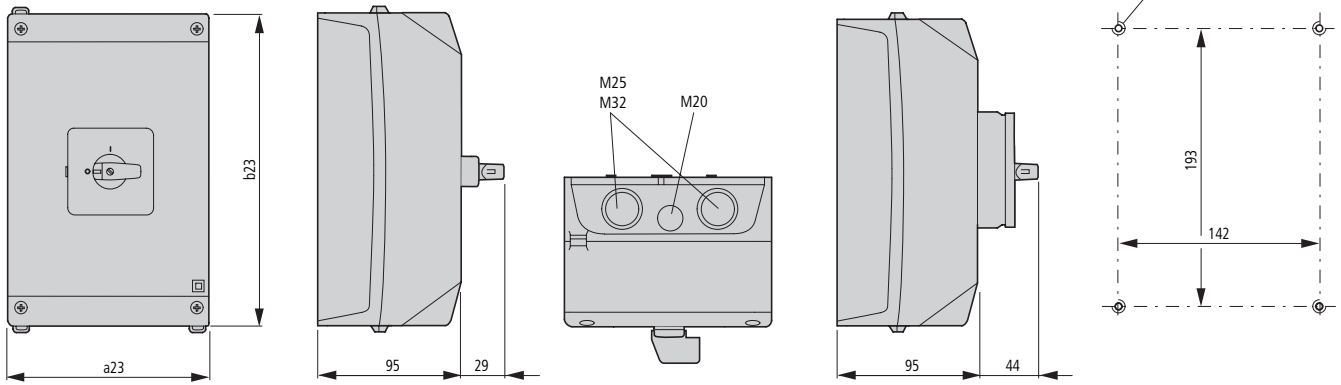
<http://catalog.moeller.net>

Layout  
P3-63/14

Surface mounting main switches/safety switches

P3-63/14/SVB  
P3-63/14/SI  
T5B-.../14/SI

Drilling dimensions

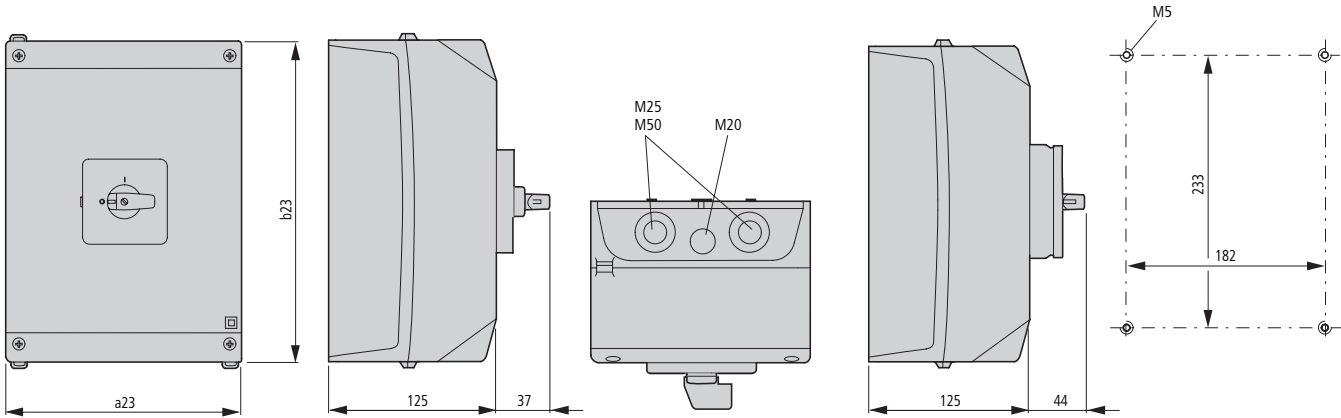


Layout  
P3-100/15

Surface mounting main switches/safety switches

P3-100/15/SVB  
P3-100/15/SI  
T5-.../15/SI

Drilling dimensions



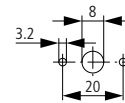
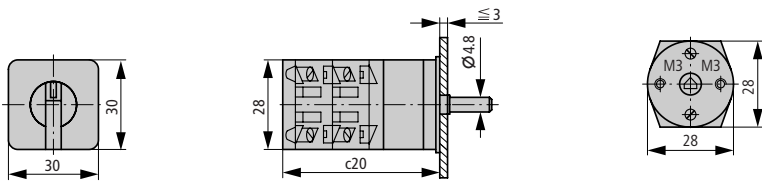
Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P3-63/14	87	72	71.5	87	87	160	18	15	114	87	83	87	27	240	35.5	60
P3-100/15	87	72	71.5	87	87	200	18	15	114	87	83	87	27	280	35.5	60

Part no.	c2	c3	c20 ≅/≅	c20 with ≤ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P3-63	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37
P3-100	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37

### Flush mounting

TM.../E

Drilling dimensions

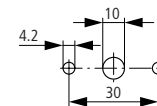
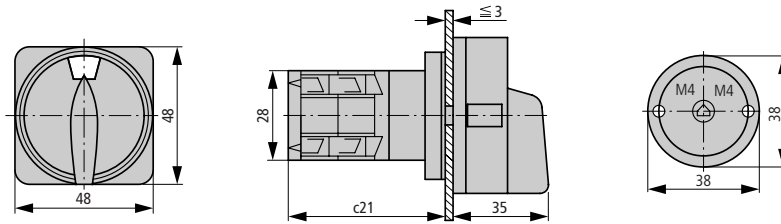


### Control circuit switches

for 2 padlocks  $\varnothing$  4 mm or 1 padlock  $\varnothing$  6 mm

TM-.../E/SVB(-SW)

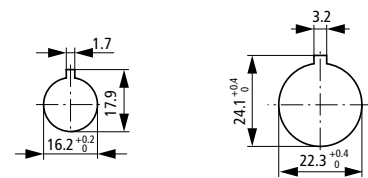
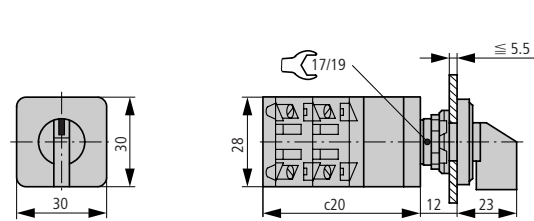
Drilling dimensions



### Centre mounting

TM-.../EZ

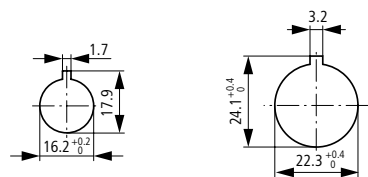
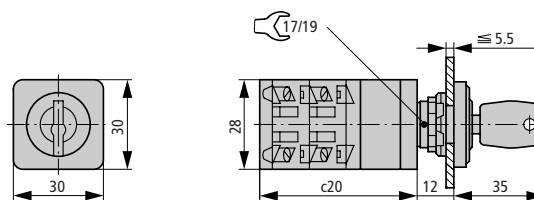
Drilling dimensions<sup>1)</sup>



### Centre mounting with key operation

TM-...+EZ/S-...

Drilling dimensions<sup>1)</sup>



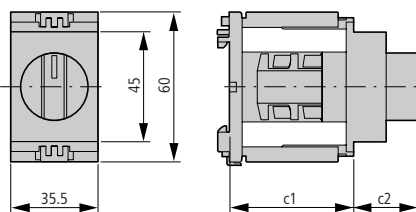
Part no.	c20	c21
TM-1...	39	42
TM-2...	51	54
TM-3...	63	66
TM-4...	75	
TM-5...	87	
TM-6...	99	
TM-7...	111	
TM-8...	123	

One contact unit depth 12 mm

### Service distribution board mounting

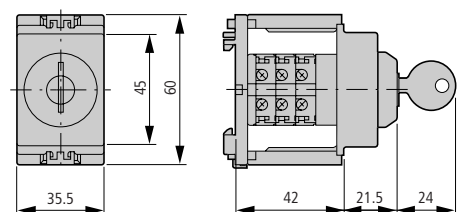
TM-.../IVS

TM-.../IVS/S



Part no.	c1	c2
TM-1...	44	21
TM-2...	46	26.5

One contact unit depth 12 mm

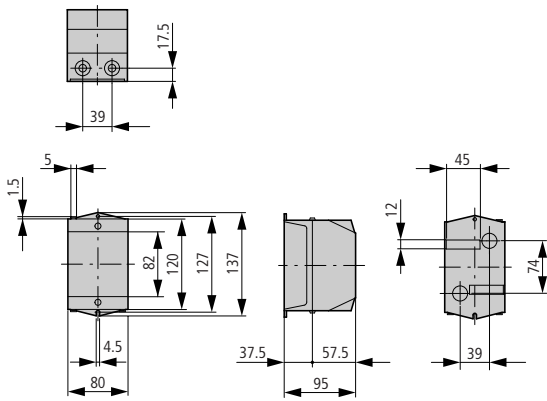


Note

<sup>1)</sup> Drilling dimensions either 16.2 mm = without reduction  $\triangle$  RMQ16; 22.3 mm = with reduction  $\triangle$  RMQ Titan

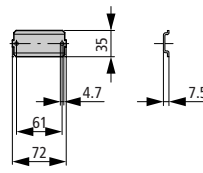
Small insulating material enclosures

CI-K1...-95-TS

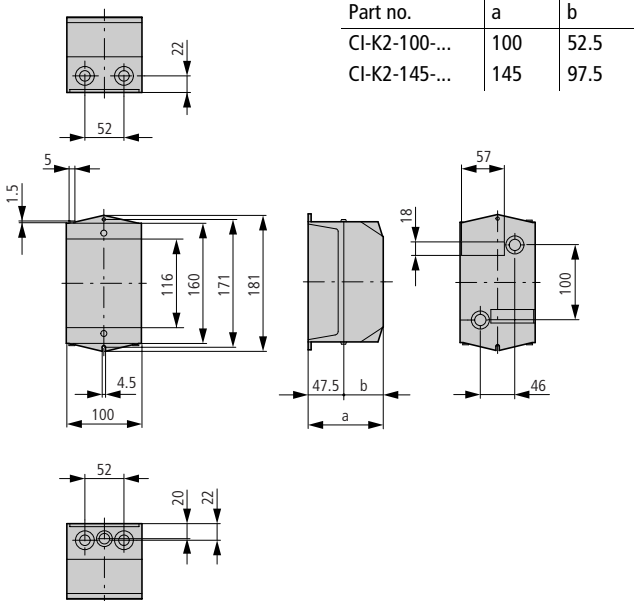


Mounting rails

TS-CI-K1

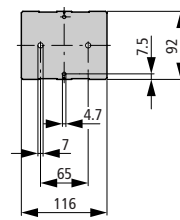


CI-K2-...



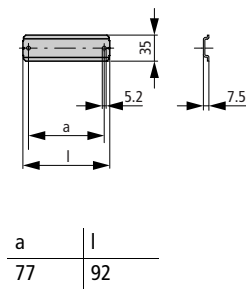
Mounting plates

M-CI-K2

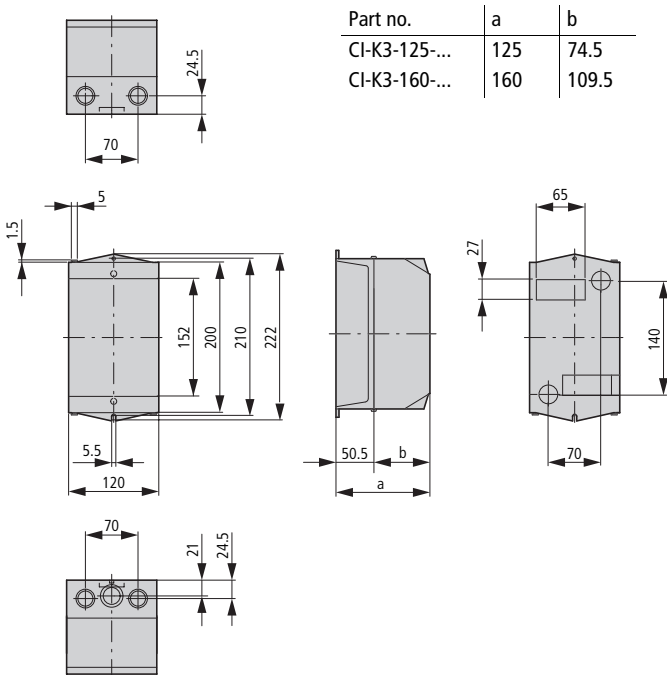


Mounting rails

TS-CI-K2

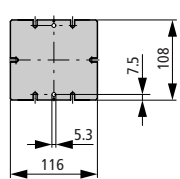


CI-K3-...



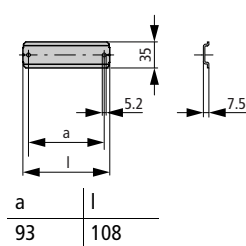
Mounting plates

M-CI-K3



Mounting rails

TS-CI-K3

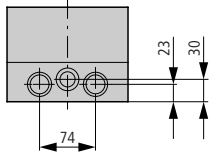


easy Relay, easy Control, easy MFD

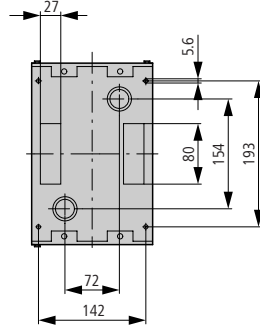
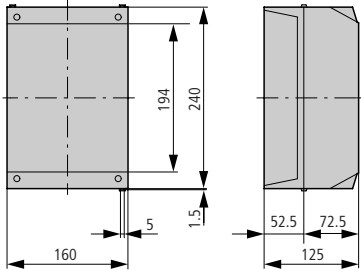


### Small insulating material enclosures

CI-K4-...

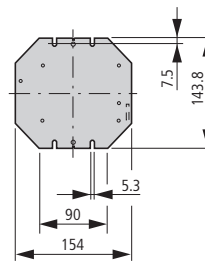


Part no.	a	b
CI-K4-125-...	125	72.5
CI-K4-160-...	160	107.5



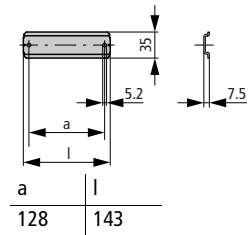
### Mounting plates

M-CI-K4



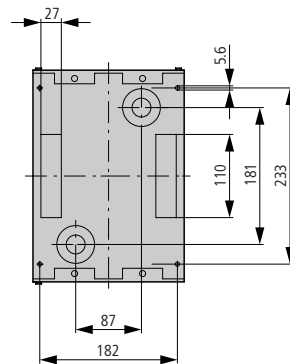
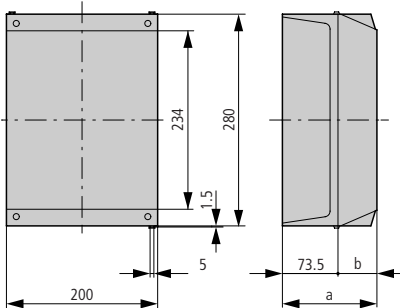
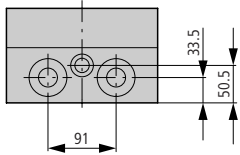
### Mounting rails

TS-CI-K4



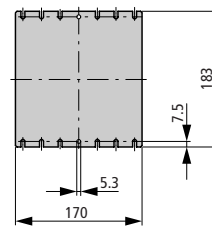
a	l
128	143

CI-K5-...



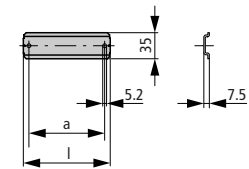
### Mounting plates

M-CI-K5



### Mounting rails

TS-CI-K5

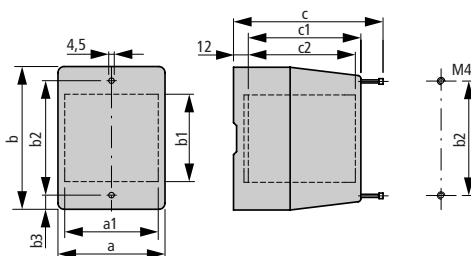


a	l
168	183

Typ	a	b
CI-K5-125-...	125	51.5
CI-K5-160-...	160	85.5

### Basic enclosures

CI-B, CI-C, CI-D



Part no.	a	a1	b	b1	b2	b3	c	c1	c2
CI-B	87	71	149	106	128	10.5	128	115	84.4
CI-C	110	95	165	122	144	10.5	128	115	84.4
CI-D	110	97	222	179	201	10.5	128	115	84.4

