

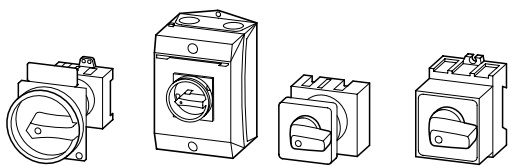
T Rotary Switches, P Switch-Disconnectors



## T Rotary Switches, P Switch-Disconnectors

### Overview

#### T rotary switches, P switch-disconnectors



#### TM mini rotary switches



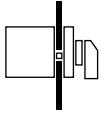
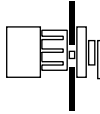
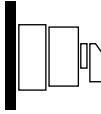
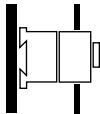
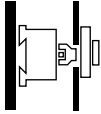
	Page		Page
<b>Overview of functions</b>	07/002	<b>Overview of functions</b>	07/002
<b>Technical overview</b>	07/004	<b>Technical overview</b>	07/004
<b>System overview</b>	07/006	<b>System overview</b>	07/072
<b>Key to type references, modular system</b>	07/010	<b>Key to type references, modular system</b>	07/010
<b>On-Off switches</b>		<b>On-Off switches</b>	
Main switches	07/012	Control circuit isolators	07/074
On-Off switches	07/018	On-Off switches	07/074
Safety switches	07/024		
<b>Control switches</b>		<b>Control switches</b>	
Changeover switches	07/026	Changeover switches	07/075
Reversing switches	07/032	Reversing switches	07/082
Star-delta switches	07/032	Step switches	07/077
Multi-speed switches	07/034	On-Off switches	07/081
Step switches	07/036	Hand/Auto switches	07/076
On-Off switches	07/040	On-Off switches, spring-return	07/081
Hand/Auto switches	07/042	Coding switches	07/082
On-Off switches, spring-return	07/044	Group switches	07/080
Universal control switches	07/046		
Coding switches	07/046		
Series switches	07/046		
Instrument selector switches	07/048		
<b>Switches with locking arrangements</b>			
Panic switches	07/050		
On-Off switches	07/050		
Hand/Auto switches	07/052		
<b>Accessories</b>		<b>Accessories</b>	
Front plates	07/054	Key operation	07/083
Key operation	07/058		
Additional accessories	07/060		
<b>Non-standard switches</b>		<b>Non-standard switches</b>	
T0 rotary switches	07/084	TM mini rotary switches	07/088
T3 rotary switches	07/085		
T5B rotary switches	07/086		
T5 rotary switches	07/087		
Bulk packaged switches	07/088		
<b>Technical data</b>	07/090	<b>Technical data</b>	07/095
<b>Dimensions</b>	07/096	<b>Dimensions</b>	07/108
<b>Ordering of non-standard switches</b>	07/110	<b>Ordering of non-standard switches</b>	07/110

For other standard contact sequences, see catalogue K115



## T Rotary Switches, P Switch-Disconnectors

### Overview of Functions

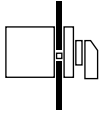
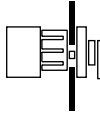
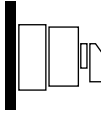
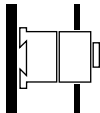
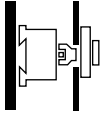
Function	Flush mounting .../E...	Centre mounting .../EZ...	Surface mounting .../I...	Distribution board mounting .../IVS...	Rear mounting .../Z...
					
<b>On-Off switches</b>					
Main switches Maintenance switches For use as Emergency-Stop devices <sup>1)</sup>	→ 07/012		→ 07/013		→ 07/013
Main switches Maintenance switches with auxiliary contacts For use as Emergency-Stop devices <sup>1)</sup>	→ 07/014		→ 07/015		→ 07/015
Main switches Maintenance switches	→ 07/013		→ 07/013		→ 07/013
Main switches Maintenance switches with auxiliary contacts	→ 07/015		→ 07/015		→ 07/015
On-Off switches with black thumb-grip	→ 07/016 → 07/074	→ 07/019 → 07/074	→ 07/019	→ 07/019	→ 07/019
On-Off switches with black thumb-grip With auxiliary contacts	→ 07/020	→ 07/021	→ 07/021	→ 07/021	→ 07/021
On-Off switches For use as Emergency-Stop devices <sup>1)</sup>	→ 07/022		→ 07/023	→ 07/023	
Control circuit isolators	→ 07/074				
Safety switches 25 – 100 A For use as Emergency-Stop devices <sup>1)</sup>			→ 07/024		
Safety switches 25 – 100 A			→ 07/025		

#### Notes

<sup>1)</sup> To IEC/EN 60 204-1;  
With red thumb-grip and yellow front plate

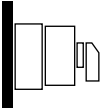

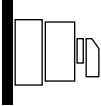

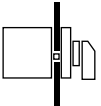
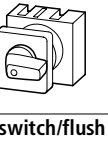
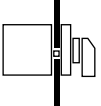
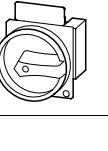
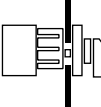

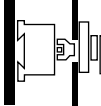

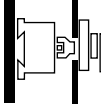
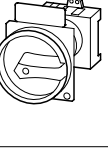
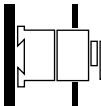
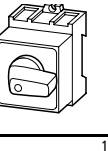
# T Rotary Switches, P Switch-Disconnectors

## Overview of Functions

Function	Flush mounting .../E...	Centre mounting .../EZ...	Surface mounting .../I...	Distribution board mounting .../IVS...	Rear mounting .../Z...
					
<b>Control switches</b>					
Changeover switches Mains transfer-, group switches	→ 07/026 → 07/075	→ 07/027 → 07/075	→ 07/027	→ 07/027	→ 07/027
Reversing switches	→ 07/032 → 07/082	→ 07/033 → 07/082	→ 07/033	→ 07/033	→ 07/033
Star-delta switches	→ 07/032	→ 07/033	→ 07/033	→ 07/033	→ 07/033
Multi-speed switches	→ 07/034	→ 07/035	→ 07/035	→ 07/035	→ 07/035
Step switches	→ 07/036 → 07/077	→ 07/036 → 07/077	→ 07/037	→ 07/037	→ 07/037
On-Off switches, changeover switches	→ 07/040 → 07/081	→ 07/040 → 07/081	→ 07/041	→ 07/041	→ 07/041
Hand/Auto switches	→ 07/042 → 07/076	→ 07/042 → 07/076	→ 07/043	→ 07/043	→ 07/043
Spring-return switches	→ 07/044 → 07/081	→ 07/044 → 07/081	→ 07/045	→ 07/045	→ 07/045
Universal control switches	→ 07/046	→ 07/046	→ 07/047	→ 07/047	→ 07/047
Coding switches	→ 07/046 → 07/082	→ 07/046 → 07/082	→ 07/047	→ 07/047	→ 07/047
Series switches	→ 07/046	→ 07/046	→ 07/047	→ 07/047	→ 07/047
Instrument selector switches (voltage)	→ 07/048	→ 07/048	→ 07/049	→ 07/049	→ 07/049
Instrument selector switches (current)	→ 07/048	→ 07/048	→ 07/049	→ 07/049	→ 07/049
Switches with locking arrangements	→ 07/050		→ 07/051		→ 07/051

## T Rotary Switches, P Switch-Disconnectors

## Technical Overview

				Switch size			
				TM	T0	T3	T5B
Three-phase motor rating	AC-3	220 – 240 V	kW	1.5	3	6.5	15
		380 – 440 V	kW	2.2	4	12	22
		690 V	kW	–	4	15	22
	AC-23	220 – 240 V	kW	1.8	3.5	7.5	18.5
		380 – 440 V	kW	3	6.5	13	22
		690 V	kW	–	–	–	22
Rated operational current	AC-21	380 – 440 V	3~ A	10	20	32	63
		220 – 240 V	A	2.5	6	10	16
	AC-15	380 – 415 V	A	1.5	4	6	6
Rated uninterrupted current			A	10	20	32	63
<b>Mounting form</b>							
<b>Surface mounting<sup>1)</sup></b>							
		.../I...	IP65	–	●	●	●
		.../I 45/...		–	–	–	–
		.../I 48/...		–	–	–	–
		.../ST/...		–	●	●	●
<b>Surface mounting main switch<sup>1)</sup></b>							
		.../I.../SVB...	IP65	–	●	●	●
		.../ST/SVB...		–	●	●	●
<b>Flush mounting</b>							
		.../E...	Front IP65	●	●	●	●
<b>Flush mounting main switch/flush mounting control circuit isolator</b>							
		.../EA/SVB...	Front IP65	–	●	●	●
		TM.../E/SVB		●	–	–	–
<b>Centre mounting</b>							
		.../EZ...	Front IP65	–	●	●	–
		TM.../EZ		●	–	–	–
<b>Rear mounting</b>							
		.../Z...	Front IP65	–	●	●	●
<b>Rear mounting main switches</b>							
		.../N/SVB...	Front IP65	–	●	●	●
<b>Service distribution board mounting</b>							
		.../IVS...	Front IP30	●	●	–	–

## Notes

<sup>1)</sup> Enclosures for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches, P Switch-Disconnectors**  
 Technical Overview

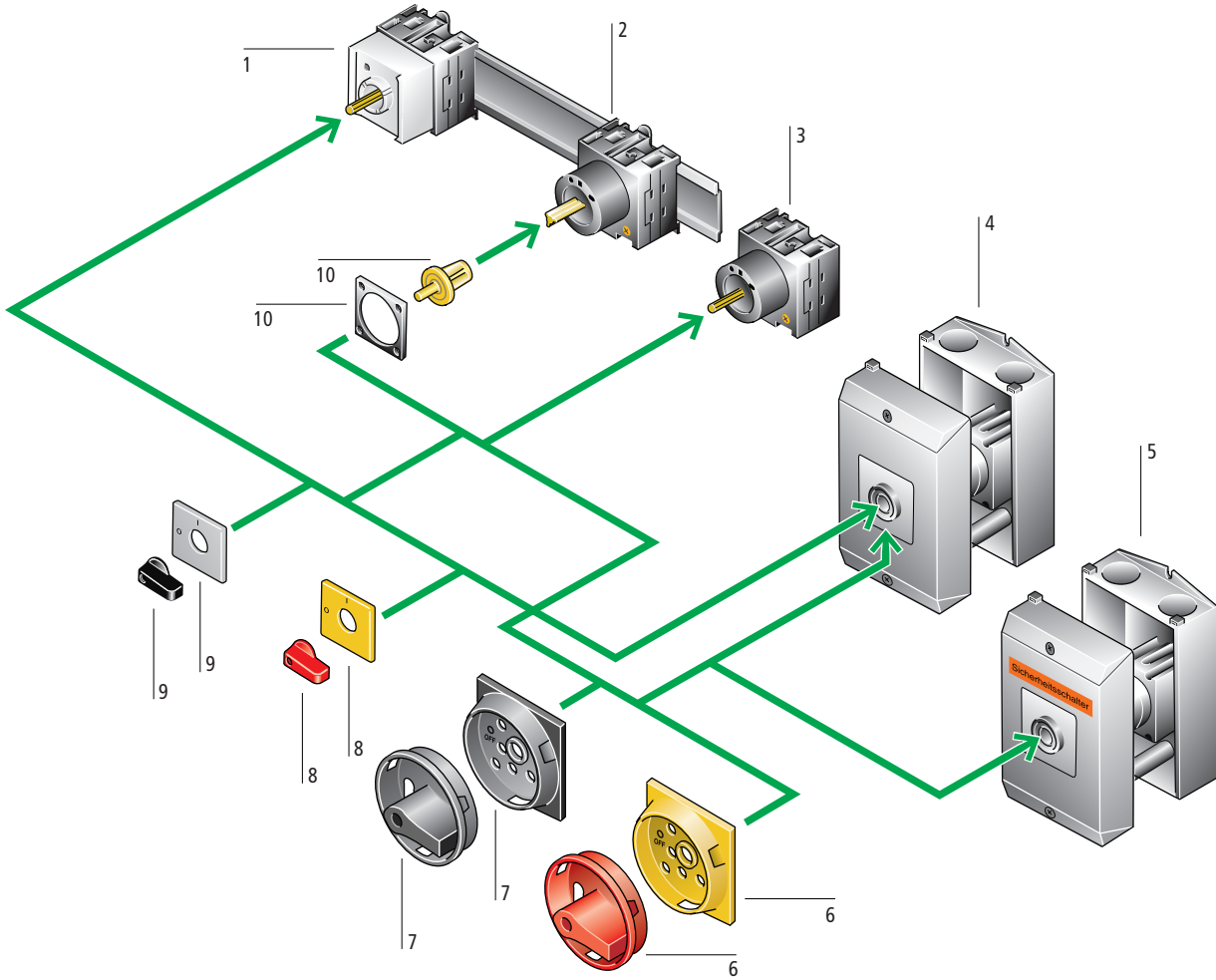
T5	T6-2	T6-3-8212	T6-160-6	T8-3-8342	T8-3-8212	P1		P3	
18.5	22	22	22	37	37	5.5	7.5	15	22
30	37	37	45	55	55	7.5	13	30	37
30	22	22	22	37	37	7.5	15	30	37
18.5	37	37	37	75	75	7	8.5	18.5	30
30	45	45	55	132	132	13	15	37	50
30	30	30	30	37	37	11	18.5	30	75
100	125	125	160	315	315	25	32	63	100
16	-	-	-	-	-	-	-	-	-
6	-	-	-	-	-	-	-	-	-
100	125	125	160	315	315	25	32	63	100

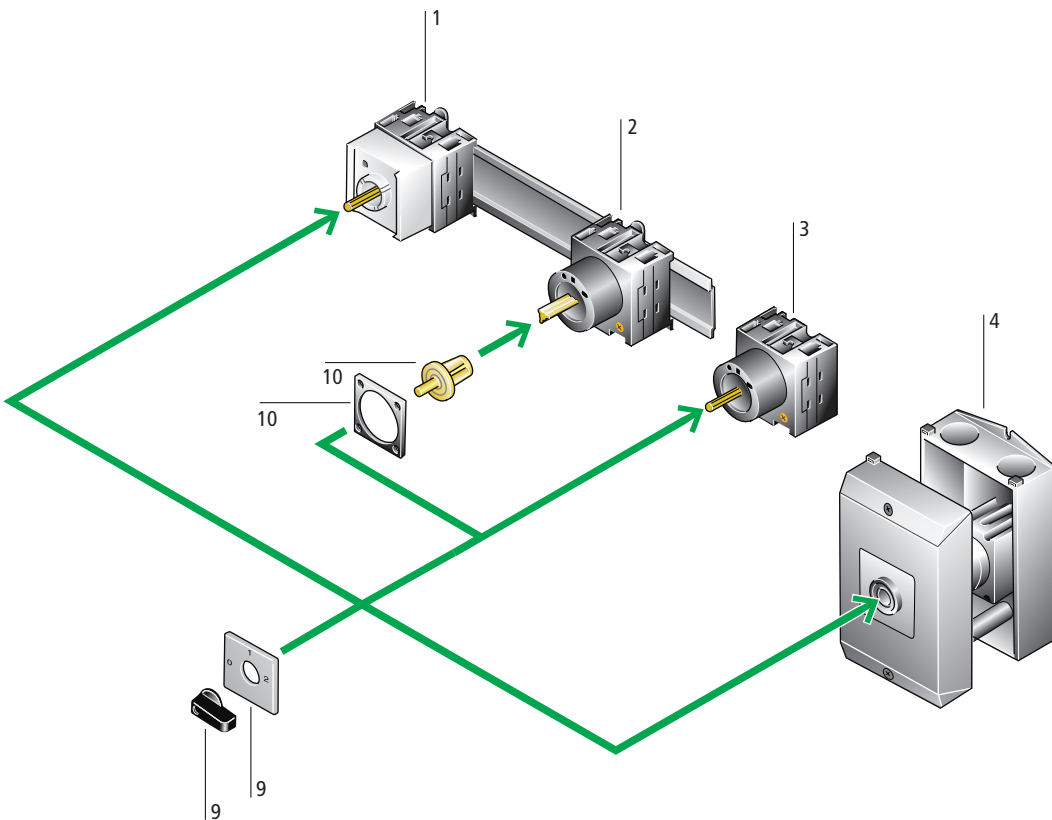
●	-	-	-	-	-	●	●
-	-	-	●	-	-	-	-
-	-	-	-	●	-	-	-
●	-	-	-	-	-	●	●
●	-	-	-	-	-	●	●
●	●	●	-	-	●	●	●
●	●	-	-	-	-	●	●
-	-	-	-	-	-	-	-
-	-	-	-	-	-	●	-
-	-	-	-	-	-	-	-
●	-	-	-	-	-	●	●
●	●	-	●	●	-	●	●
-	-	-	-	-	-	●	●

# T Rotary Switches System Overview

T0, T3, T5B, T5 On-Off switches






T0, T3, T5B, T5 control switches



## T Rotary Switches

### System Overview

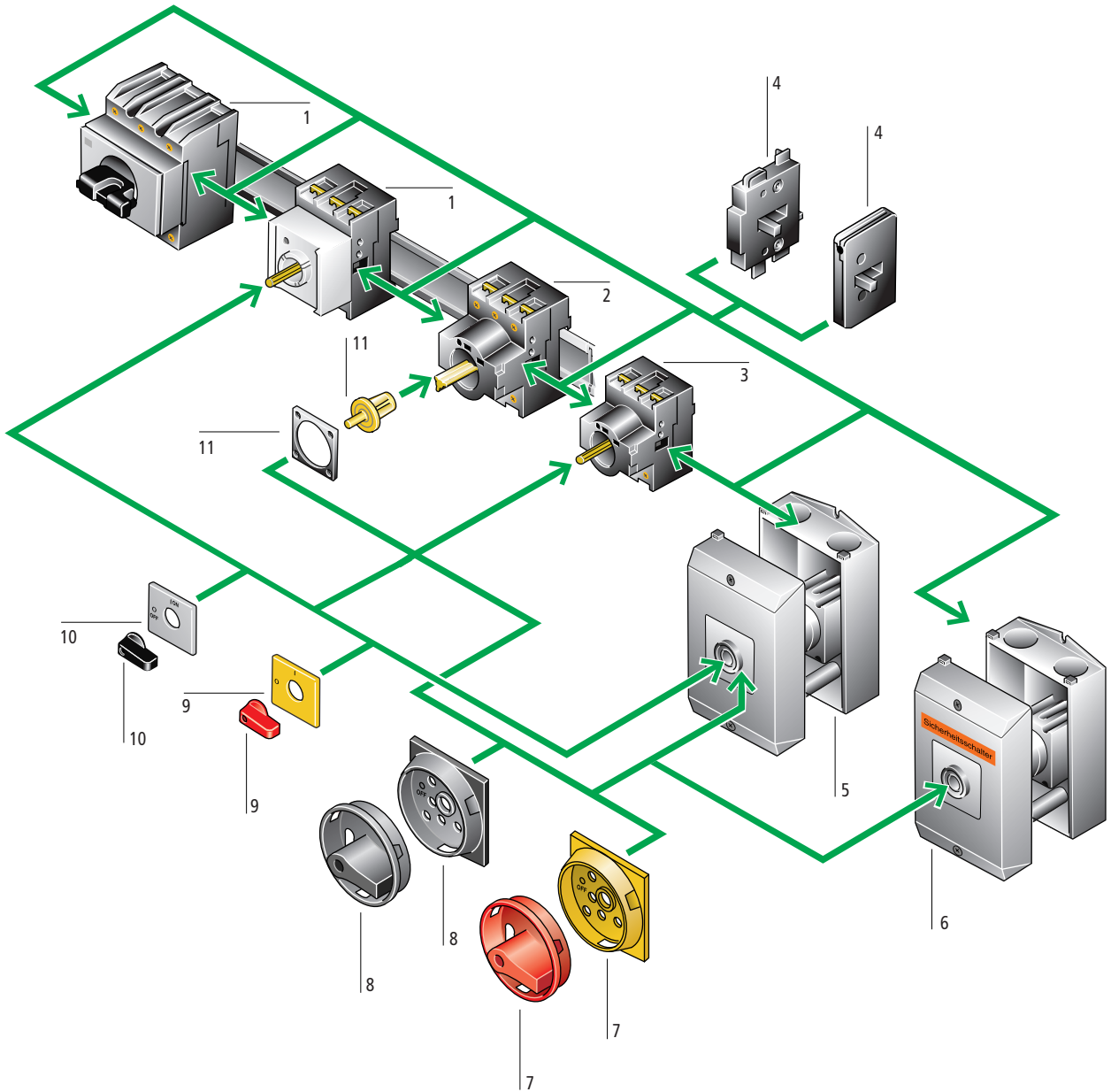
<b>Service distribution board mounting (.../IVS)</b> 1	<b>Centre mounting (.../EZ)</b> 3	<b>Main switch (assembly kit) for use as Emergency-Stop device</b> 6
Front IP30	Front IP65	To IEC/EN 60 204-1
For snap fitting to EN 50 022 top-hat rail	Mounting in $\varnothing$ 22.3 <b>fixing hole</b> to IEC/EN 60 947-5-1	With red rotary handle and yellow locking collar
Flush mounting	Centre fixing permits installation by one fitter	Lockable in the 0 (Off) position
– service distribution boards: up to 3 contact units (45 mm mounting depth)	→ Page 07/019	→ Page 07/062
– control panels: up to 11 contact units		
→ Page 07/019		
<b>Rear mounting (.../Z)</b> 2	<b>Surface mounting (.../I...)</b> 4	<b>Main switch (assembly kit)</b> 7
Front IP65	IP65 	Black rotary handle and locking collar
Secured by screw fixing or snap fitting (T0 or T3)	With PE terminal	Lockable in the 0 (Off) position
For snap fitting to EN 50 022 top-hat rail	Enclosures designed for metric cable glands to EN 50 262	→ Page 07/062
Coupling drive in door or cover	→ Page 07/019	
Connection from the front		
→ Page 07/019	<b>Surface mounting main switches (.../I...)</b> 4	<b>Thumb-grip for use in Emergency-Stop devices</b> 8
	IP65 	To IEC/EN 60 204-1
	To IEC/EN 60 204 and IEC/EN 60 947-3, up to 8 contacts for T0..., and up to 10 contacts for T3	Red thumb-grip with yellow front plate
	0 (Off) position lockable using up to 3 padlocks	→ Page 07/062
	Enclosures designed for metric cable glands to EN 50 262	
	With PE terminal	
	→ Page 07/013	<b>Thumb-grip</b> 9
<b>Rear mounting main switches (.../IV/SVB)</b> 2		Black thumb-grip with front plate
Front IP65		→ Page 07/062
To IEC/EN 60 204 and IEC/EN 60 947-3, up to 8 contacts for T0..., and up to 12 contacts for T3		
With door interlock in I (On) position		
→ Page 07/013		
<b>Flush mounting (.../E)</b> 3	<b>Safety switches (.../I...)</b> 5	<b>Coupling drive</b> 10
Front IP65	IP65 	Includes push-fit shaft
Fitting and connection from the rear	With PE terminal	For retrofitting T0(T3)-.../XZ basic switches in the rear mounting form Spare parts for T0(T3)/(P1)-.../Z
Terminal: Pozidriv plus-minus screw	With cover fixing in the 0 (Off) position	For retrofit conversion of T5(B)-.../E flush mounting switches to rear mounting form Spare part for T5(B)-.../Z
Finger and back-of-hand proof	0 (Off) position lockable using up to 3 padlocks	→ Page 07/066
Type T8 with extension terminals as standard	Enclosures designed for metric cable glands to EN 50 262	
→ Page 07/018	With "Safety Switch" label Colour: orange	
	For Switzerland: comply with the Swiss Accident Insurance Institute Directive	
	→ Page 07/024	
<b>Flush mounting main switches (.../EA/SVB)</b> 3		
Front IP65		
To IEC/EN 60 204 and IEC/EN 60 947-3, up to 8 contacts for T0..., and up to 12 contacts for T3		
N terminal and PE terminal		
→ Page 07/012		



# P Switch-Disconnectors

## System Overview




P1, P3 On-Off switches



Rotary Switches  
Switch-Disconnectors

## P Switch-Disconnectors

### System Overview

<b>Service distribution board mounting (.../IVS)</b> 1	<b>Flush mounting main switches (.../EA/SVB)</b> 3	<b>Safety switches (.../I...-SI)</b> 6
Front IP30	Front IP65	IP65 
Fitting dimensions to DIN 43 880	To IEC/EN 60 204 and IEC/EN 60 947-3	With PE terminal
For snap fitting to EN 50 022 top-hat rail	N terminal and PE terminal	With cover fixing in the 0 (Off) position
Space requirement	0 (Off) position lockable using up to 3 padlocks	0 (Off) position lockable using up to 3 padlocks
P1, 3-pole: 3 space units	2 add-on modules can be fitted (or retrofitted)	With "Safety Switch" label
P3, 3-pole: 4 space units		Colour: orange
P3-.../IVS can be locked in 0 (Off) position using the padlocking feature		Enclosures designed for metric cable glands to EN 50 262
	→ Page 07/012	For Switzerland: comply with the Swiss Accident Insurance Institute Directive
→ Page 07/019		→ Page 07/024
<b>Rear mounting (.../Z)</b> 2	<b>Centre mounting (.../EZ)</b> 3	<b>Main switch (assembly kit) for use as Emergency-Stop device</b> 7
Front IP65	Front IP65	To IEC/EN 60 204-1
Secured by snap fitting or screw fixing	Mounting in $\varnothing$ 22.3 <b>fixing hole</b> to IEC/EN 60 947-5-1	With red rotary handle and yellow locking collar
	Centre fixing permits installation by one fitter	Lockable in the 0 (Off) position
For snap fitting to EN 50 022 top-hat rail	→ Page 07/019	→ Page 07/062
Coupling drive in door or cover	<b>Add-on modules</b> 4	<b>Main switch (assembly kit)</b> 8
Connection from the front	Switched neutral (early-make contact)	Black rotary handle and locking collar
2 add-on modules can be fitted (or retrofitted)	HI 11 auxiliary contact = 1 make contact + 1 break contact	Lockable in the 0 (Off) position
→ Page 07/019	Finger-proof	→ Page 07/062
<b>Rear mounting main switches (.../V/SVB)</b> 2	Auxiliary make contact: always connected as load-shedding contact (late-make, early-break)	<b>Thumb-grip for use in Emergency-Stop devices</b> 9
Front IP65	→ Page 07/064	To IEC/EN 60 204-1
To IEC/EN 60 204 and IEC/EN 60 947-3	<b>Surface mounting (.../I...)</b> 5	Red thumb-grip with yellow front plate
With door interlock in I (On) position	IP65 	→ Page 07/062
Maintenance key for commissioning or fault tracing	With PE terminal	<b>Thumb-grip</b> 10
0 (Off) position lockable using up to 3 padlocks	Add-on modules for retrofitting: P1: + 1, P3: + 2	Black thumb-grip with front plate
2 add-on modules can be fitted (or retrofitted)	Enclosures designed for metric cable glands to EN 50 262	→ Page 07/062
→ Page 07/013	→ Page 07/019	<b>Coupling drive</b> 11
<b>Flush mounting (.../E)</b> 3	<b>Surface mounting main switches (.../I...)</b> 5	Includes push-fit shaft
Front IP65	IP65 	For retrofitting T0(T3)-.../XZ basic switches in the rear mounting form Spare parts for T0(T3)/(P1)-.../Z
Fitting and connection from the rear	With PE terminal	For retrofit conversion of T5(B)-.../E flush mounting switches to rear mounting form Spare part for T5(B)-.../Z
Terminal: Pozidriv plus-minus screw	To IEC/EN 60 204 and IEC/EN 60 947-3	→ Page 07/066
Finger and back-of-hand proof	0 (Off) position lockable using up to 3 padlocks	
2 add-on modules can be fitted (or retrofitted)	Add-on modules for retrofitting: P1: + 1, P3: + 2	
→ Page 07/018	Enclosures designed for metric cable glands to EN 50 262	
	→ Page 07/013	

# T Rotary Switches, P Switch-Disconnectors

## Key to Type References, Modular System

Rotary switches are suitable for many different switching and control functions, e.g. as On-Off switches, main switches, main circuit/auxiliary circuit control switches, instrument selector switches.

The switches consist of a handle, basic switch and mounting accessories.

The contact chamber (contact unit) contains 1 or 2 contacts.

Our "T Rotary Switches" catalogue, K115, shows more than 800 often used standard contact sequences (available on request).

On the following Pages, you will find a selection of the standard contact sequences we offer.

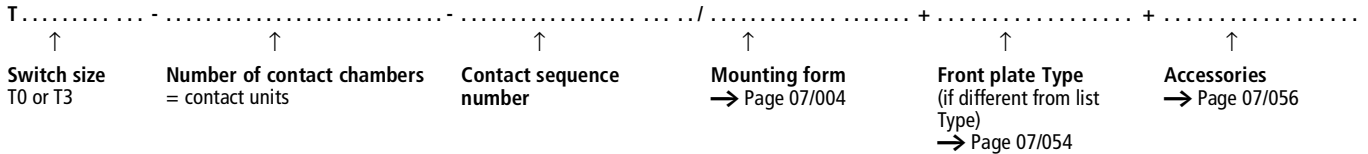
T rotary switches and P switch-disconnectors are manufactured without PCB, CFC, asbestos or silicon. The contacts are cadmium-free.

The CI-K insulated enclosures do not contain silicon

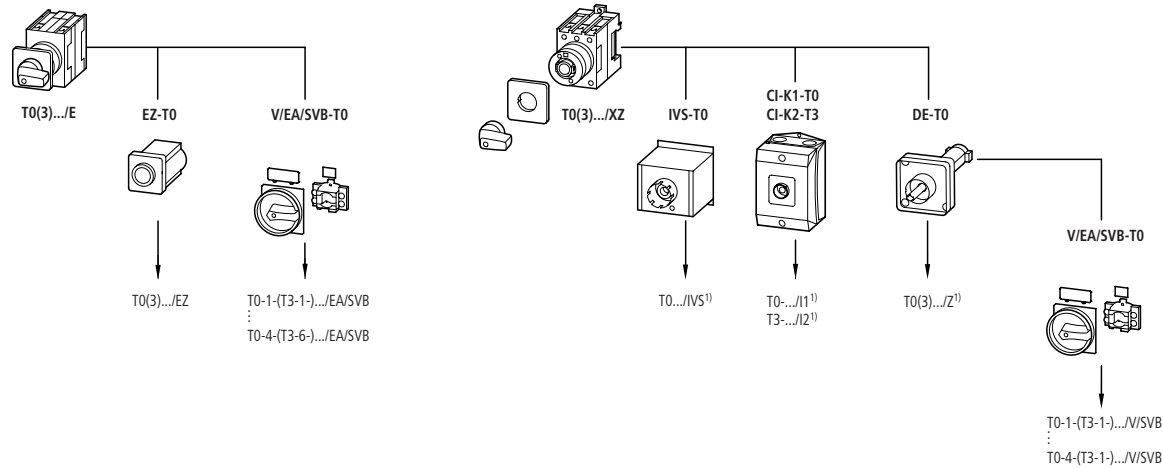
Technical Data for CI-K small enclosures: → See Installation Equipment Catalogue, HPL0212-2000GB

### T0 and T3 rotary switches

#### Key to type references

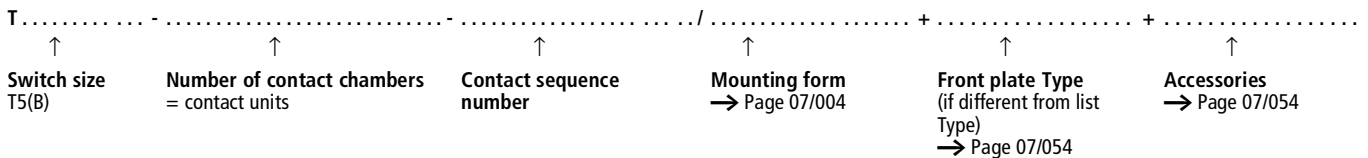


#### Using the modular system to convert the mounting form

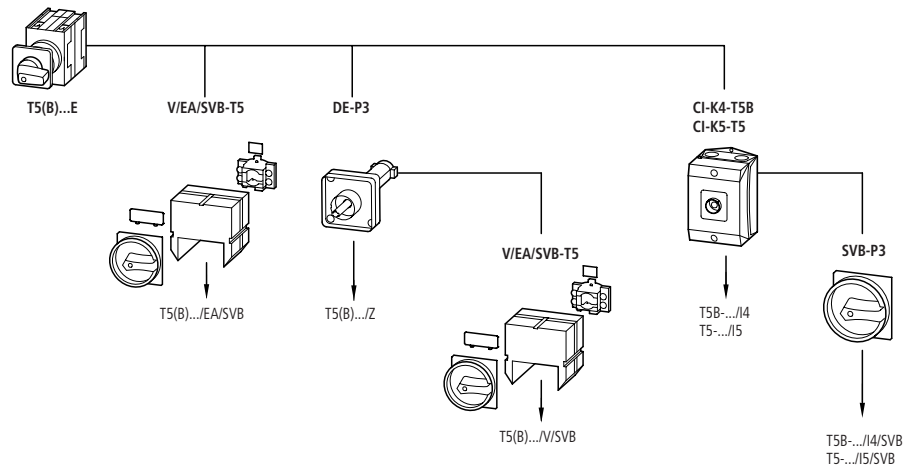


### T5(B) rotary switches

#### Key to type references



#### Using the modular system to convert the mounting form of T5(B)



#### Notes

Types preceded by "+..." are additions to the basic Type and cannot be ordered separately.

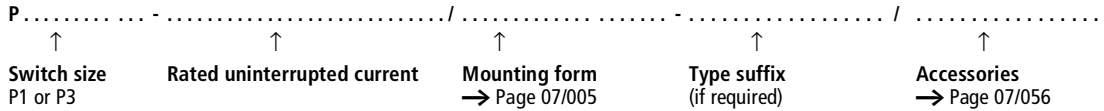
¹) Includes shaft

# T Rotary Switches, P Switch-Disconnectors

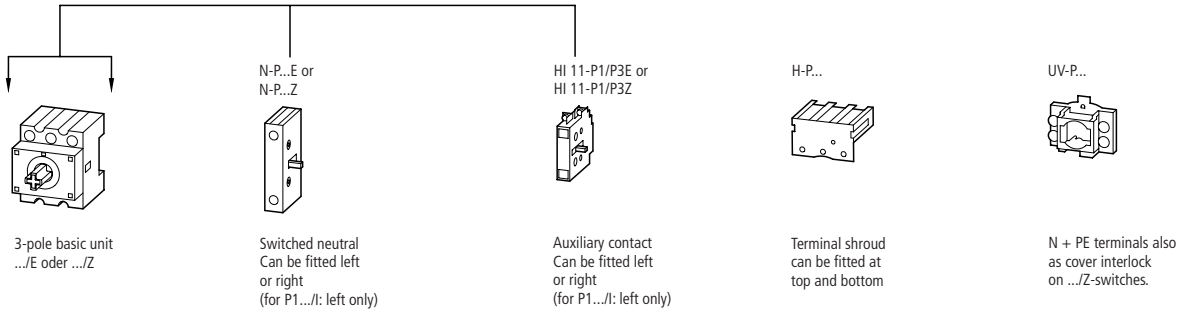
## Key to Type References, Modular System

### P1 and P3 switch-disconnectors

#### Key to type references



#### The modular system offers add-on functions

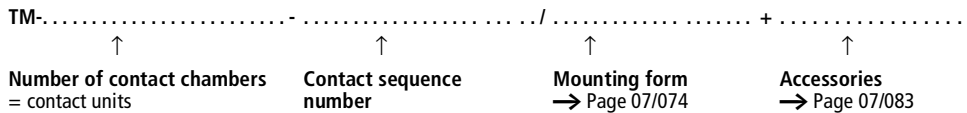


### TM mini rotary switches

The TM rotary switch requires very little space due to its exceptionally small dimensions. It is particularly well suited for switching the low voltages and low currents which occur in electronic control panels, for example. The gold-plated contacts provide extra reliability and safety.

TM mini rotary switches have consecutive terminal markings, beginning with 1.

#### Key to type references

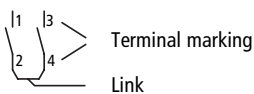


### Circuit diagrams

on Pages 07/012 – 053  
and 07/074 – 082

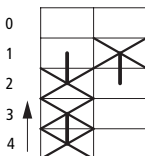
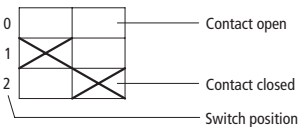
Example:

(see also Ordering Example on Page 07/111)



Switch position 1:  
Contact 1 – 2 open,  
Contact 3 – 4 closed.

Switching from 1 to 2:  
Contact 1 – 2 closes with early make,  
Contact 3 – 4 opens with late break.



Switching from 2 to 3:  
Contact 1 – 2 opens briefly.

Switching from 3 to 4:  
Contact 1 – 2 remains closed,  
Automatic return from 4 to 3.

**T Rotary Switches, P Switch-Disconnectors**  
Main Switches, Maintenance Switches

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz			Rated uninterrupted current	For use as Flush mounting Front IP65		
				AC-3 220 V 230 V 240 V	380 V 400 V 440 V	660 V 690 V				
		No. of poles					$I_u$	Mounting form Article no.	Price See Price List	
		M	M	B	kW	kW	kW	A		
	FS 908	1	0	0	1	1.3	–	20	T0-1-8200/...	EA/SVB 053110
					1.8	3.6	–	32	T3-1-8200/...	EA/SVB 066576
					5	7.3	–	63	T5B-1-8200/...	EA/SVB 094279
					7.3	12.3	–	100	T5-1-8200/...	EA/SVB 097224
		2	0	0	2.2	2.2	–	20	T0-1-102/...	EA/SVB 091078
					3	5.5	–	32	T3-1-102/...	EA/SVB 014374
					7.5	11	–	63	T5B-1-102/...	EA/SVB 094469
					11	18.5	–	100	T5-1-102/...	EA/SVB 098808
		3	0	0	3	4	4	20	T0-2-1/...	EA/SVB 038873
					5.5	7.5	7.5	25	P1-25/...	EA/SVB 041097
					7.5	13	15	32	P1-32/...	EA/SVB 081438
					15	30	30	63	P3-63/...	EA/SVB 031607
					22	37	37	100	P3-100/...	EA/SVB 074320
					22	37	22	125	T6-2/...	EA/SVB 012679
		3+N	0	0	3	4	4	20	T0-2-8900/...	EA/SVB 207400
					5.5	7.5	7.5	25	P1-25/...	EA/SVB/N 081587
					7.5	13	15	32	P1-32/...	EA/SVB/N 091079
					15	30	30	63	P3-63/...	EA/SVB/N 010398
		6	0	0	3	4	4	20	T0-3-8342/...	EA/SVB 029382
					6.5	12	15	32	T3-3-8342/...	EA/SVB 071326
					15	22	22	63	T5B-3-8342/...	EA/SVB 092308
					18.5	30	30	100	T5-3-8342/...	EA/SVB 096383
		8	0	0	3	4	4	20	T0-4-8344/...	EA/SVB 008267
					6.5	12	15	32	T3-4-8344/...	EA/SVB 008964
					15	22	22	63	T5B-4-8344/...	EA/SVB 092062
					22	30	30	100 <sup>4)</sup>	T5-4-8344/...	EA/SVB 095961

Standard pack: 1 off

- Notes**
- <sup>1)</sup> To IEC/EN 60 204-1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position
  - <sup>2)</sup> With black rotary handle and locking collar, lockable in 0 (off) position
  - <sup>3)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches, P Switch-Disconnectors**  
Main Switches, Maintenance Switches

Emergency-Stop device <sup>1)</sup>				Without Emergency-Stop function <sup>2)</sup>					
Surface mounting <sup>3)</sup> IP65		Rear mounting Front IP65		Flush mounting Front IP65		Surface mounting <sup>3)</sup> IP65		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
11/SVB 207145		V/SVB 057856		EA/SVB-SW 055483		11/SVB-SW 207146		V/SVB-SW 060229	
12/SVB 207200		V/SVB 007255		EA/SVB-SW 068949		12/SVB-SW 207201		V/SVB-SW 004882	
14/SVB 207240		V/SVB 094273		EA/SVB-SW 094278		14/SVB-SW 207241		V/SVB-SW 094272	
15/SVB 207275		V/SVB 097222		EA/SVB-SW 097223		15/SVB-SW 207276		V/SVB-SW 097221	
11/SVB 207143		V/SVB 095824		EA/SVB-SW 093451		11/SVB-SW 207144		V/SVB-SW 022330	
12/SVB 207198		V/SVB 019120		EA/SVB-SW 016747		12/SVB-SW 207199		V/SVB-SW 021493	
14/SVB 207238		V/SVB 094463		EA/SVB-SW 094468		14/SVB-SW 207239		V/SVB-SW 094462	
15/SVB 207273		V/SVB 098806		EA/SVB-SW 098807		15/SVB-SW 207274		V/SVB-SW 098805	
11/SVB 207147		V/SVB 043619		EA/SVB-SW 041246		11/SVB-SW 207148		V/SVB-SW 045992	
12/SVB 207293		V/SVB 055335		EA/SVB-SW 048365		12/SVB-SW 207294		V/SVB-SW 050738	
12/SVB 207314		V/SVB 095676		EA/SVB-SW 053111		12/SVB-SW 207315		V/SVB-SW 055484	
14/SVB 207343		V/SVB 048218		EA/SVB-SW 057857		14/SVB-SW 207344		V/SVB-SW 060230	
15/SVB 207373		V/SVB 088558		EA/SVB-SW 062603		15/SVB-SW 207374		V/SVB-SW 064976	
–		V/SVB 015052		EA/SVB-SW 067349		–		V/SVB-SW 069722	
11/SVB 207151		V/SVB 207405		EA/SVB-SW 207401		11/SVB-SW 207152		V/SVB-SW 207406	
12/SVB/N 207298		V/SVB/N 086333		EA/SVB-SW/N 083960		12/SVB-SW/N 207296		V/SVB-SW/N 088706	
12/SVB/N 207319		V/SVB/N 095825		EA/SVB-SW/N 093452		12/SVB-SW/N 207317		V/SVB-SW/N 098198	
14/SVB/N 207349		V/SVB/N 015144		EA/SVB-SW/N 012771		14/SVB-SW/N 207346		V/SVB-SW/N 017517	
15/SVB/N 207379		V/SVB/N 024636		EA/SVB-SW/N 022263		15/SVB-SW/N 207376		V/SVB-SW/N 027009	
11/SVB 207159		V/SVB 034128		EA/SVB-SW 031755		11/SVB-SW 207160		V/SVB-SW 036501	
12/SVB 207208		V/SVB 076072		EA/SVB-SW 073699		12/SVB-SW 207209		V/SVB-SW 078445	
14/SVB 207242		V/SVB 092300		EA/SVB-SW 092307		14/SVB-SW 207243		V/SVB-SW 092299	
15/SVB 207279		V/SVB 096381		EA/SVB-SW 096382		15/SVB-SW 207280		V/SVB-SW 096380	
11/SVB 207163		V/SVB 014007		EA/SVB-SW 008268		11/SVB-SW 207164		V/SVB-SW 008272	
12/SVB 207212		V/SVB 020598		EA/SVB-SW 008965		12/SVB-SW 207213		V/SVB-SW 008967	
14/SVB 207248		V/SVB 092056		EA/SVB-SW 092061		14/SVB-SW 207249		V/SVB-SW 092055	
15/SVB 207283		V/SVB 095959		EA/SVB-SW 095960		15/SVB-SW 207284		V/SVB-SW 095958	

Standard pack: 1 off

<sup>4)</sup> T5-4-8344/15... max. 95 A

**T Rotary Switches, P Switch-Disconnectors**  
Main Switches with Auxiliary Contacts, Maintenance Switches

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninterrupted current $I_u$	For use as	Flush mounting Front IP65	Price
				AC-3	380 V	660 V				
		M	M B	kW	kW	kW	A	Basic type For ... insert mounting form		
		3	1 0	3	4	4	20	T0-2-15679/...	EA/SVB 081588	
		3	1 1	5.5	7.5	7.5	25	P1-25/...	EA/SVB/HI11 091080	
		3	1 1	7.5	13	15	32	P1-32/...	EA/SVB/HI11 072567	
		3	1 1	15	30	30	63	P3-63/...	EA/SVB/HI11 019891	
		3	1 1	22	37	37	100	P3-100/...	EA/SVB/HI11 029383	
		3	2 1	3	4	4	20	T0-3-15683/...	EA/SVB 015571	
		3	2 1	6.5	12	15	32	T3-3-15683/...	EA/SVB 040478	
		3+N	1 1	3	4	4	20	T0-3-15680/...	EA/SVB 038875	
		3+N	1 1	6.5	12	15	32	T3-3-15680/...	EA/SVB 012002	
		3+N	1 1	5.5	7.5	7.5	25	P1-25/...	EA/SVB/N/HI11 048367	
		3+N	1 1	7.5	13	15	32	P1-32/...	EA/SVB/N/HI11 057859	
		3+N	1 1	15	30	30	63	P3-63/...	EA/SVB/N/HI11 067351	
		3+N	1 1	22	37	37	100	P3-100/...	EA/SVB/N/HI11 076843	
		3+N	1 1	3	4	4	20	T0-3-15681/...	EA/SVB 086335	
		3+N	1 1	6.5	12	15	32	T3-3-15681/...	EA/SVB 026240	
		3+N	1 1	15	22	22	63	T5B-3-8901/...	EA/SVB 207420	
		3+N	1 1	18.5	30	30	100	T5-3-8901/...	EA/SVB 207408	
		6	1 1	3	4	4	20	T0-4-15682/...	EA/SVB 019892	
		6	1 1	6.5	12	15	32	T3-4-15682/...	EA/SVB 054716	
		6	1 1	15	22	22	63	T5B-4-15682/...	EA/SVB 207425	
		6	1 1	18.5	30	30	100	T5-4-15682/...	EA/SVB 207413	
		6	1 1	22	42	22	160	T6-160-6/...	-	
		6	1 1	37	55	37	315 <sup>3)</sup>	T8-3-8342/...	-	

Standard pack: 1 off

- Notes**
- 1) To IEC/EN 60 204-1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position
  - 2) With black rotary handle and locking collar, lockable in 0 (Off) position
  - 3) Enclosed version, up to 275 A
  - 4) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070
  - 5) Enclosures without flanges, with K95/1N/BR

**T Rotary Switches, P Switch-Disconnectors**  
Main Switches with Auxiliary Contacts, Maintenance Switches

Emergency-Stop device <sup>1)</sup>				Without Emergency-Stop function <sup>2)</sup>					
Surface mounting <sup>4)</sup> IP65		Rear mounting Front IP65		Flush mounting Front IP65		Surface mounting <sup>4)</sup> IP65		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
I1/SVB 207149		V/SVB 086334		EA/SVB-SW 083961		I1/SVB-SW 207150		V/SVB-SW 088707	
I2/SVB/HI11 207297		V/SVB/HI11 095826		EA/SVB-SW/HI11 070194		I2/SVB-SW/HI11 207295		V/SVB-SW/HI11 098199	
I2/SVB/HI11 207318		V/SVB/HI11 015145		EA/SVB-SW/HI11 012772		I2/SVB-SW/HI11 207316		V/SVB-SW/HI11 017518	
I4/SVB/HI11 207348		V/SVB/HI11 024637		EA/SVB-SW/HI11 022264		I4/SVB-SW/HI11 207345		V/SVB-SW/HI11 027010	
I5/SVB/HI11 207378		V/SVB/HI11 034129		EA/SVB-SW/HI11 031756		I5/SVB-SW/HI11 207375		V/SVB-SW/HI11 036502	
I1/SVB 207157		V/SVB 015634		EA/SVB-SW 015600		I1/SVB-SW 207158		V/SVB-SW 015664	
I2/SVB 207206		V/SVB 045224		EA/SVB-SW 042851		I2/SVB-SW 207207		V/SVB-SW 047597	
I1/SVB 207153		V/SVB 043621		EA/SVB-SW 041248		I1/SVB-SW 207154		V/SVB-SW 045994	
I2/SVB 207202		V/SVB 016748		EA/SVB-SW 014375		I2/SVB-SW 207203		V/SVB-SW 019121	
-		V/SVB/N/HI11 053113		EA/SVB-SW/N/HI11 050740		-		V/SVB-SW/N/HI11 055486	
-		V/SVB/N/HI11 062605		EA/SVB-SW/N/HI11 060232		-		V/SVB-SW/N/HI11 064978	
I4/SVB/N/HI11 207350		V/SVB/N/HI11 072097		EA/SVB-SW/N/HI11 069724		I4/SVB-SW/N/HI11 207347		V/SVB-SW/N/HI11 074470	
I5/SVB/N/HI11 207380		V/SVB/N/HI11 081589		EA/SVB-SW/N/HI11 079216		I5/SVB-SW/N/HI11 207377		V/SVB-SW/N/HI11 083962	
I1/SVB 207155		V/SVB 091081		EA/SVB-SW 088708		I1/SVB-SW 207156		V/SVB-SW 093454	
I2/SVB 207204		V/SVB 030986		EA/SVB-SW 028613		I2/SVB-SW 207205		V/SVB-SW 033359	
I4/SVB 207244		V/SVB 207422		EA/SVB-SW 207421		I4/SVB-SW 207245		V/SVB-SW 207423	
I5/SVB 207277		V/SVB 207410		EA/SVB-SW 207409		I5/SVB-SW 207278		V/SVB-SW 207411	
I1/SVB 207161		V/SVB 024638		EA/SVB-SW 022265		I1/SVB-SW 207162		V/SVB-SW 027011	
I2/SVB 207210		V/SVB 059462		EA/SVB-SW 057089		I2/SVB-SW 207211		V/SVB-SW 061835	
I4/SVB 207246		V/SVB 207427		EA/SVB-SW 207426		I4/SVB-SW 207247		V/SVB-SW 207428	
I5/SVB 207281		V/SVB 207415		EA/SVB-SW 207414		I5/SVB-SW 207282		V/SVB-SW 207416	
I45/SVB/HI11 <sup>5)</sup> 201448		V/SVB/HI11 200619		-		I45/SVB-SW/HI11 <sup>5)</sup> 201447		V/SVB-SW/HI11 200127	
I48/SVB/HI11 <sup>6)</sup> 201450		V/SVB/HI11 200620		-		I48/SVB-SW/HI11 <sup>6)</sup> 201449		V/SVB-SW/HI11 200128	


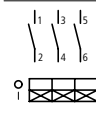
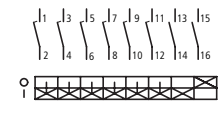
Standard pack: 1 off

<sup>6)</sup> With KS4-CI and K150/1/BR

Rotary Switches Switch-Disconnectors

Rotary Switches Switch-Disconnectors

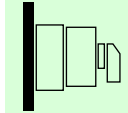
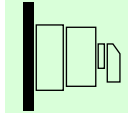
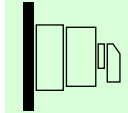
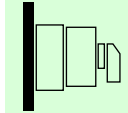
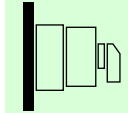
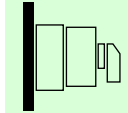
**T Rotary Switches, P Switch-Disconnectors**  
Main Switches, Maintenance Switches in Sheet Steel Enclosures

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz	Rated uninterrupted current				
	FS 908	No. of poles		AC-3 220 V 380 V 660 V 230 V 400 V 690 V 240 V 440 V	$I_u$				
		M	M B	kW kW kW	A				
<b>Main switches in sheet steel enclosures</b>									
	3	0	0	3 4 4	20	<b>T0-2-1/...</b>	<b>ST/SVB</b> 025528		
				5.5 7.5 7.5	25	<b>P1-25/...</b>	<b>ST/SVB</b> 025523		
				7.5 13 15	32	<b>P1-32/...</b>	<b>ST/SVB</b> 025522		
				15 30 30	63	<b>P3-63/...</b>	<b>ST/SVB</b> 025521		
				22 37 37	100	<b>P3-100/...</b>	<b>ST/SVB</b> 025520		
<b>Main switches with auxiliary contacts</b>									
	6	1	1	3 4 4	20	<b>T0-4-15682/...</b>	<b>ST/SVB</b> 025527		
				6.5 12 15	32	<b>T3-4-15682/...</b>	<b>ST/SVB</b> 025526		
				15 22 22	63	<b>T5B-4-15682/...</b>	<b>ST/SVB</b> 215328		
				18.5 30 30	100	<b>T5-4-15682/...</b>	<b>ST/SVB</b> 215330		

Standard pack: 1 off

**Notes**  
 1) To IEC/EN 60 204-1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position  
 2) With black rotary handle and locking collar, lockable in 0 (Off) position

**T Rotary Switches, P Switch-Disconnectors**  
Main Switches, Maintenance Switches in Sheet Steel Enclosures

Without Emergency-Stop function <sup>2)</sup>	Surface mounting IP65		
		<b>Mounting form</b> Article no.	<b>Price</b> See Price List
<b>For use as Emergency-Stop device<sup>1)</sup></b>			
<b>Surface mounting IP65</b>			
		<b>Mounting form</b> Article no.	<b>Price</b> See Price List
<b>Without Emergency-Stop function<sup>2)</sup></b>			
<b>Surface mounting IP65</b>			
		<b>Mounting form</b> Article no.	<b>Price</b> See Price List
<b>Without Emergency-Stop function<sup>2)</sup></b>			
<b>Surface mounting IP65</b>			
		<b>ST/SVB-SW</b> 201713	
		<b>ST/SVB-SW</b> 201714	
		<b>ST/SVB-SW</b> 201715	
		<b>ST/SVB-SW</b> 201716	
		<b>ST/SVB-SW</b> 201717	
		<b>ST/SVB-SW</b> 201718	
		<b>ST/SVB-SW</b> 201719	
		<b>ST/SVB-SW</b> 215329	
		<b>ST/SVB-SW</b> 215331	

Standard pack: 1 off

**T Rotary Switches, P Switch-Disconnectors**  
On-Off Switches

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninterrupted current $I_u$	Basic type For ... insert mounting form	Flush mounting Front IP65	Mounting form Article no.	Price See Price List
				AC-3	220 V	380 V					
		No. of poles									
	FS 908	M	M B	kW	kW	kW	A				
<b>On-Off switches<sup>1)</sup></b>											
		1	0 0	1	1.3	-	20	<b>T0-1-8200/...</b>	E	067352	
				1.8	3.6	-	32	<b>T3-1-8200/...</b>	E	064208	
				5	7.3	-	63	<b>T5B-1-8200/...</b>	E	094281	
				7.3	12.3	-	100	<b>T5-1-8200/...</b>	E	097226	
		2	0 0	2.2	2.2	-	20	<b>T0-1-102/...</b>	E	088709	
				3	5.5	-	32	<b>T3-1-102/...</b>	E	076073	
				7.5	11	-	63	<b>T5B-1-102/...</b>	E	094471	
				11	18.5	-	100	<b>T5-1-102/...</b>	E	098810	
		3	0 0	3	4	4	20	<b>T0-2-1/...</b>	E	024639	
				5.5	7.5	7.5	25	<b>P1-25/...</b>	E	038724	
				7.5	13	15	32	<b>P1-32/...</b>	E	079065	
				15	30	30	63	<b>P3-63/...</b>	E	026861	
				22	37	37	100	<b>P3-100/...</b>	E	067201	
				22	37	22	125	<b>T6-2/...</b>	E	098106	
		3+N	0 0	3	4	4	20	<b>T0-2-8900/...</b>	E	207398	
				5.5	7.5	7.5	25	<b>P1-25/...</b>	E/N	076845	
				7.5	13	15	32	<b>P1-32/...</b>	E/N	093456	
				15	30	30	63	<b>P3-63/...</b>	E/N	019894	
				22	37	37	100	<b>P3-100/...</b>	E/N	031759	
		6	0 0	3	4	4	20	<b>T0-3-8342/...</b>	E	043624	
				6.5	12	15	32	<b>T3-3-8342/...</b>	E	045225	
				15	22	22	63	<b>T5B-3-8342/...</b>	E	092310	
				18.5	30	30	100	<b>T5-3-8342/...</b>	E	096385	
		8	0 0	3	4	4	20	<b>T0-4-8344/...</b>	E	014000	
				6.5	12	-	32	<b>T3-4-8344/...</b>	E	020593	
				15	22	22	63	<b>T5B-4-8344/...</b>	E	092064	
				22	30	30	100 <sup>3)</sup>	<b>T5-4-8344/...</b>	E	095963	

Standard pack: 1 off

**Notes**

- <sup>1)</sup> With black thumb-grip and grey front plate
- <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches, P Switch-Disconnectors**  
On-Off Switches

Centre mounting Front IP65		Surface mounting <sup>2)</sup> IP65 <small>totally insulated</small>		Service distribution board mounting Front IP30		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>EZ</b> 069725		<b>I1</b> 207074		<b>IVS</b> 074471		<b>Z</b> 076844	
<b>EZ</b> 066581		<b>I2</b> 207167		-		<b>Z</b> 071327	
-		<b>I4</b> 207218		-		<b>Z</b> 094270	
-		<b>I5</b> 207264		-		<b>Z</b> 097219	
<b>EZ</b> 091082		<b>I1</b> 207061		<b>IVS</b> 015147		<b>Z</b> 095828	
<b>EZ</b> 078446		<b>I2</b> 207165		-		<b>Z</b> 083192	
-		<b>I4</b> 207215		-		<b>Z</b> 094460	
-		<b>I5</b> 207262		-		<b>Z</b> 098803	
<b>EZ</b> 027012		<b>I1</b> 207081		<b>IVS</b> 031758		<b>Z</b> 036504	
<b>EZ</b> 041250		<b>I2</b> 207299		<b>IVS</b> 052962		<b>Z</b> 057708	
<b>EZ</b> 048369		<b>I2</b> 207320		<b>IVS</b> 093303		<b>Z</b> 098049	
-		<b>I4</b> 207356		<b>IVS</b> 041099		<b>Z</b> 050591	
-		<b>I5</b> 207381		<b>IVS</b> 081439		<b>Z</b> 090931	
-		-		-		-	
<b>EZ</b> 207402		<b>I1</b> 207109		<b>IVS</b> 207403		<b>Z</b> 207407	
<b>EZ/N</b> 079218		<b>I2/N</b> 207303		<b>IVS/N</b> 083964		<b>Z/N</b> 088710	
<b>EZ/N</b> 095829		<b>I2/N</b> 207324		<b>IVS/N</b> 010402		<b>Z/N</b> 015148	
-		<b>I4/N</b> 207360		<b>IVS/N</b> 022267		<b>Z/N</b> 027013	
-		<b>I5/N</b> 207385		<b>IVS/N</b> 034132		<b>Z/N</b> 038878	
<b>EZ</b> 045997		<b>I1</b> 207131		<b>IVS</b> 050743		<b>Z</b> 055489	
<b>EZ</b> 047598		<b>I2</b> 207187		-		<b>Z</b> 052344	
-		<b>I4</b> 207226		-		<b>Z</b> 092297	
-		<b>I5</b> 207267		-		<b>Z</b> 096378	
<b>EZ</b> 014002		<b>I1</b> 207139		<b>IVS</b> 014006		<b>Z</b> 014009	
<b>EZ</b> 020595		<b>I2</b> 207194		-		<b>Z</b> 020600	
-		<b>I4</b> 207233		-		<b>Z</b> 092053	
-		<b>I5</b> 207272		-		<b>Z</b> 095956	

Standard pack: 1 off

<sup>3)</sup> T5-4-8344/I5 up to 95 A



**T Rotary Switches, P Switch-Disconnectors**  
On-Off Switches with Auxiliary Contacts

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz			Rated uninter- rupted current $I_u$	Basic type For ... insert mounting form	Flush mounting Front IP65	Mounting form Article no.	Price See Price List
				kW	kW	kW					
	FS 908	M	M B	AC-3 220 V 230 V 240 V	380 V 400 V 440 V	660 V 690 V					

On-Off switches with auxiliary contacts <sup>1)</sup>										
	3	1	0	3	4	4	20	T0-2-15679/...	E	029387
	3	1	1	5.5	7.5	7.5	25	P1-25/...	E/HI11	045998
				7.5	13	15	32	P1-32/...	E/HI11	062609
	3	2	1	15	30	30	63	P3-63/...	E/HI11	079220
				22	37	37	100	P3-100/...	E/HI11	069574
	3	2	1	3	4	4	20	T0-3-15683/...	E	016619
				6.5	12	15	32	T3-3-15683/...	E	014377
	6	1	1	3	4	4	20	T0-4-15682/...	E	010405
				6.5	12	15	32	T3-4-15682/...	E	023869
				15	22	22	63	T5B-4-15682/...	E	207424
				18.5	30	30	100	T5-4-15682/...	E	207412

Standard pack: 1 off

Notes  
<sup>1)</sup> With black thumb-grip and grey front plate  
<sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches, P Switch-Disconnectors**  
On-Off Switches with Auxiliary Contacts

Centre mounting Front IP65		Surface mounting <sup>2)</sup> IP65 <small>totally insulated</small>		Service distribution board mounting Front IP30		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
EZ 031760		I1 207094		IVS 036506		Z 041252	
EZ/HI11 048371		I2/HI11 207302		IVS/HI11 053117		Z/HI11 057863	
EZ/HI11 064982		I2/HI11 207323		IVS/HI11 069728		Z/HI11 074474	
–		I4/HI11 207359		IVS/HI11 081593		Z/HI11 086339	
–		I5/HI11 207384		IVS/HI11 091085		Z/HI11 093304	
EZ 016658		I1 207118		IVS 016722		Z 016843	
EZ 040480		I2 207182		–		Z 019123	
EZ 012778		I1 207135		IVS 017524		Z 022270	
EZ 026242		I2 207190		–		Z 030988	
–		I4 207229		–		Z 207429	
–		I5 207269		–		Z 207417	

Standard pack: 1 off

T Rotary Switches, P Switch-Disconnectors  
On-Off Switches

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz			Rated uninterrupted current	Basic type For ... insert mounting form	Flush mounting Front IP65	Price See Price List
		No. of poles		AC-3			$I_u$			
	FS 908 GE	M	M B	220 V	380 V	660 V		Mounting form Article no.		
				kW	kW	kW	A			

On-Off switches for use as Emergency-Stop devices <sup>1)</sup>										
	1	0	0	1	1.3	–	20	T0-1-8200/...	E-RT 009474	
				1.8	3.6	–	32	T3-1-8200/...	E-RT 017025	
				5	7.3	–	63	T5B-1-8200/...	E-RT 094280	
				7.3	12.3	–	100	T5-1-8200/...	E-RT 097225	
	2	0	0	2.2	2.2	–	20	T0-1-102/...	E-RT 009046	
				3	5.5	–	32	T3-1-102/...	E-RT 016318	
				7.5	11	–	63	T5B-1-102/...	E-RT 094470	
				11	18.5	–	100	T5-1-102/...	E-RT 098809	
	3	0	0	3	4	4	20	T0-2-1/...	E-RT 011082	
				5.5	7.5	7.5	25	P1-25/...	E-RT 002388	
				7.5	13	15	32	P1-32/...	E-RT 003197	
				15	30	30	63	P3-63/...	E-RT 005743	
				22	37	37	100	P3-100/...	E-RT 007189	
	3+N	0	0	3	4	4	20	T0-2-8900/...	E-RT 207399	
				5.5	7.5	7.5	25	P1-25/...	E-RT/N 002425	
				7.5	13	15	32	P1-32/...	E-RT/N 004555	
				15	30	30	63	P3-63/...	E-RT/N 007136	
				22	37	37	100	P3-100/...	E-RT/N 007280	

Standard pack: 1 off

Notes  
<sup>1)</sup> To IEC/EN 60 204-1; with red thumb-grip and yellow front plate  
<sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

T Rotary Switches, P Switch-Disconnectors  
On-Off Switches

Surface mounting <sup>2)</sup> <span style="border: 1px solid black; padding: 2px;">Totally insulated</span> IP65		Service distribution board mounting Front IP30	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
I1-RT 207075		IVS-RT 081956	
I2-RT 207168		–	
I4-RT 207219		–	
I5-RT 207265		–	
I1-RT 207062		IVS-RT 079583	
I2-RT 207166		–	
I4-RT 207216		–	
I5-RT 207263		–	
I1-RT 207082		IVS-RT 084329	
I2-RT 207300		IVS-RT 013140	
I2-RT 207321		IVS-RT 022632	
I4-RT 207357		IVS-RT 045845	
I5-RT 207382		IVS-RT 086185	
I1-RT 207110		IVS-RT 207404	
I2-RT/N 207301		IVS-RT/N 017886	
I2-RT/N 207322		IVS-RT/N 027378	
I4-RT/N 207358		IVS-RT/N 041616	
I5-RT/N 207383		IVS-RT/N 034497	

Standard pack: 1 off

T Rotary Switches, P Switch-Disconnectors  
Safety Switches

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninterrupted current	For use as Emergency-Stop device <sup>1)</sup>	
				No. of poles	AC-3	220 V		380 V	660 V
	FS 908				220 V	380 V	660 V		See Price List
		M	M B	kW	kW	kW	A	Type Article no.	Price See Price List

Safety switches									
		3	0 0	5.5	7.5	7.5	25	P1-25/I2-SI	207308
				7.5	13	15	32	P1-32/I2-SI	207329
		3+N	0 0	5.5	7.5	7.5	25	P1-25/I2-SI/N	207312
				7.5	13	15	32	P1-32/I2-SI/N	207333
		3	1 1	5.5	7.5	7.5	25	P1-25/I2-SI/HI11	207310
				7.5	13	15	32	P1-32/I2-SI/HI11	207331
		3	0 0	15	30	30	63	P3-63/I4-SI	207361
				22	37	37	100	P3-100/I5-SI	207386
		3+N	0 0	15	30	30	63	P3-63/I4-SI/N	207365
				22	37	37	100	P3-100/I5-SI/N	207390
		3	1 1	15	30	30	63	P3-63/I4-SI/HI11	207363
				22	37	37	100	P3-100/I5-SI/HI11	207388
		6	0 0	15	22	22	63	T5B-3-8342/I4-SI	207250
				18.5	30	30	100	T5-3-8342/I5-SI	207447
		6	1 1	15	22	22	63	T5B-4-15682/I4-SI	207254
				18.5	30	30	100	T5-4-15682/I5-SI	207285
		6	2 0	15	22	22	63	T5B-4-8903/I4-SI	207258
				18.5	30	30	100	T5-4-8903/I5-SI	207289

Standard pack: 1 off

- Notes**
- <sup>1)</sup> To IEC/EN 60 204 Part 1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position with cover interlock
  - <sup>2)</sup> With black rotary handle and locking collar, lockable in 0 (Off) position with cover interlock
  - <sup>3)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

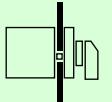














T Rotary Switches, P Switch-Disconnectors  
Safety Switches

Without Emergency-Stop function <sup>2)</sup>		Notes
Surface mounting <sup>3)</sup> IP65		
	Type Article no.	Price See Price List
	P1-25/I2-SI-SW	207309
	P1-32/I2-SI-SW	207330
	P1-25/I2-SI/N-SW	207313
	P1-32/I2-SI/N-SW	207334
	P1-25/I2-SI/HI11-SW	207311
	P1-32/I2-SI/HI11-SW	207332
	P3-63/I4-SI-SW	207362
	P3-100/I5-SI-SW	207387
	P3-63/I4-SI/N-SW	207366
	P3-100/I5-SI/N-SW	207391
	P3-63/I4-SI/HI11-SW	207364
	P3-100/I5-SI/HI11-SW	207389
	T5B-3-8342/I4-SI-SW	207251
	T5-3-8342/I5-SI-SW	207448
	T5B-4-15682/I4-SI-SW	207255
	T5-4-15682/I5-SI-SW	207286
	T5B-4-8903/I4-SI-SW	207259
	T5-4-8903/I5-SI-SW	207290

Standard pack: 1 off

- Padlocking feature with captive cover fixing
- With "Safety Switch" warning plate (other languages on request) Neutral conductor or HI11 auxiliary contact can also be retrofitted to P1 and P3 safety switches → Page 07/065
- No contacts can be retrofitted to T... rotary switches.
- For general information on Safety Switches → Page 07/109  
For switches in accordance with the Swiss Accident Insurance Institute Directive, please contact Moeller Switzerland

### T Rotary Switches Control Switches: Changeover Switches

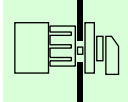
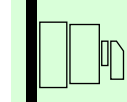
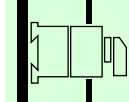
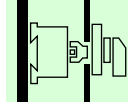
Circuit diagram	Front plate no.	Max. three-phase motor rating (per set of 3 contacts) 50 – 60 Hz			Rated un-interrupted current $I_u$	Flush mounting Front IP65	
	No. of poles	AC-3	380 V	660 V		 <b>Mounting form</b> Article no.	<b>Price</b> See Price List
		220 V	400 V	690 V			
		230 V	440 V				
	M	kW	kW	kW	A		
<b>Changeover switches with 0 (Off) position <sup>1)</sup></b>							
<b>Group switches, mains transfer switches</b>							
		1	1	1.3	–	20	<b>T0-1-8210/...</b> E 012742
			1.8	3.6	–	32	<b>T3-1-8210/...</b> E 054718
			5	7.3	–	63	<b>T5B-1-8210/...</b> E 094261
		2	2.2	2.2	–	20	<b>T0-2-8211/...</b> E 022234
			3	5.5	–	32	<b>T3-2-8211/...</b> E 061837
			7.5	11	–	63	<b>T5B-2-8211/...</b> E 093094
		3	3	4	4	20	<b>T0-3-8212/...</b> E 029353
			6.5	12	15	32	<b>T3-3-8212/...</b> E 068956
			15	22	22	63	<b>T5B-3-8212/...</b> E 092386
			18.5	30	30	100	<b>T5-3-8212/...</b> E 096466
		3	22	37	22	125	<b>T6-3-8212/...</b> E/HI12 214781
			37	55	37	315	<b>T8-3-8212/...</b> E/HI12 214782
		4	3	4	4	20	<b>T0-4-8213/...</b> E 031726
			6.5	12	15	32	<b>T3-4-8213/...</b> E 076075
			15	22	22	63	<b>T5B-4-8213/...</b> E 092112
			18.5	30	30	100	<b>T5-4-8213/...</b> E 096014
		4	3	4	4	20	<b>T0-4-8294/...</b> E 010371
			6.5	12	15	32	<b>T3-4-8294/...</b> E 002513
			15	22	22	63	<b>T5B-4-8294/...</b> E 092084
			18.5	30	22	100	<b>T5-4-8294/...</b> E 095986
		4	6.5	12	15	32	<b>T3-4-8902/...</b> E 215222
			15	22	22	63	<b>T5B-4-8902/...</b> E 207430
			18.5	30	22	100	<b>T5-4-8902/...</b> E 207418

Standard pack: 1 off

**Notes**


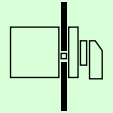
- 1) With black thumb-grip and grey front plate
- 2) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070







### T Rotary Switches Control Switches: Changeover Switches

Centre mounting Front IP65	Surface mounting <sup>2)</sup> IP65 <small>totally insulated</small>	Service distribution board mounting Front IP30	Rear mounting Front IP65
 <b>Mounting form</b> Article no.	 <b>Mounting form</b> Article no.	 <b>Mounting form</b> Article no.	 <b>Mounting form</b> Article no.
<b>Price</b> See Price List	<b>Price</b> See Price List	<b>Price</b> See Price List	<b>Price</b> See Price List
<b>EZ</b> 048337	<b>I1</b> 207076	<b>IVS</b> 074440	<b>Z</b> 019862
<b>EZ</b> 003072	<b>I2</b> 207169	–	<b>Z</b> 057091
–	<b>I4</b> 207432	–	<b>Z</b> 094258
<b>EZ</b> 053083	<b>I1</b> 207102	<b>IVS</b> 076813	<b>Z</b> 029354
<b>EZ</b> 003075	<b>I2</b> 207178	–	<b>Z</b> 064210
–	<b>I4</b> 207220	–	<b>Z</b> 093082
<b>EZ</b> 057829	<b>I1</b> 207123	<b>IVS</b> 079186	<b>Z</b> 036473
<b>EZ</b> 003080	<b>I2</b> 207183	–	<b>Z</b> 071329
–	<b>I4</b> 207223	–	<b>Z</b> 092383
–	<b>I5</b> 207266	–	<b>Z</b> 096464
–	–	–	–
–	–	–	–
<b>EZ</b> 062575	<b>I1</b> 207136	<b>IVS</b> 081559	<b>Z</b> 043592
<b>EZ</b> 003079	<b>I2</b> 207191	–	<b>Z</b> 078448
–	<b>I4</b> 207230	–	<b>Z</b> 092109
–	<b>I5</b> 207270	–	<b>Z</b> 096012
<b>EZ</b> 072069	<b>I1</b> 207138	<b>IVS</b> 043594	<b>Z</b> 048347
<b>EZ</b> 001014	<b>I2</b> 207193	–	<b>Z</b> 004886
–	<b>I4</b> 207232	–	<b>Z</b> 092081
–	<b>I5</b> 207433	–	<b>Z</b> 095984
<b>EZ</b> 215223	<b>I2</b> 215224	–	<b>Z</b> 215225
–	<b>I4</b> 207237	–	<b>Z</b> 207431
–	<b>I5</b> 207214	–	<b>Z</b> 207419

Standard pack: 1 off

### T Rotary Switches Control Switches: Changeover Switches

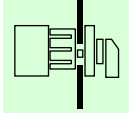
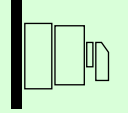
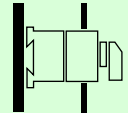
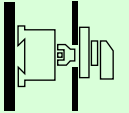
Circuit diagram	Front plate no.	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz	Rated uninterrupted current $I_u$			<b>Basic type</b> For ... insert mounting form	<b>Mounting form</b> Article no.	<b>Price</b> See Price List
	FS 4011							
	M	kW	kW	kW	A			

Changeover switches with 0 (Off) position <sup>1)</sup>										
With spring-return from both directions to 0										
	1	1	1.3	–	20	<b>T0-1-8214/...</b>	<b>E</b> 019863			
		1.8	3.6	–	32	<b>T3-1-8214/...</b>	<b>E</b> 009632			
	2	2.2	2.2	–	20	<b>T0-2-8215/...</b>	<b>E</b> 022236			
		3	5.5	–	32	<b>T3-2-8215/...</b>	<b>E</b> 016751			
	3	3	4	4	20	<b>T0-3-8216/...</b>	<b>E</b> 024609			
		6.5	12	15	32	<b>T3-3-8216/...</b>	<b>E</b> 023870			

Standard pack: 1 off

**Notes**  
<sup>1)</sup> With black thumb-grip and grey front plate  
<sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

### T Rotary Switches Control Switches: Changeover Switches

Centre mounting Front IP65		Surface mounting <sup>2)</sup> IP65 <span style="border: 1px solid black; padding: 2px;">Totally insulated</span>		Service distribution board mounting Front IP30		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
							
<b>EZ</b> 076815		<b>I1</b> 207077		<b>IVS</b> 045967		<b>Z</b> 050720	
<b>EZ</b> 001073		<b>I2</b> 207170		–		<b>Z</b> 012005	
<b>EZ</b> 081561		<b>I1</b> 207103		<b>IVS</b> 048340		<b>Z</b> 053093	
<b>EZ</b> 001074		<b>I2</b> 207179		–		<b>Z</b> 019124	
<b>EZ</b> 086307		<b>I1</b> 207434		<b>IVS</b> 050713		<b>Z</b> 055466	
<b>EZ</b> 001077		<b>I2</b> 207184		–		<b>Z</b> 026243	

Standard pack: 1 off

### T Rotary Switches Control Switches: Changeover Switches

Circuit diagram	Front plate no.	Max. three-phase motor rating (per set of 3 contacts) 50–60 Hz	Rated uninterrupted current $I_u$	Basic type For ... insert mounting form	Flush mounting Front IP65	Price See Price List
	FS 943					
<b>Changeover switches without 0 (Off) position<sup>1)</sup></b>						
<b>Changeover switches</b>						
	1	1.1 1.3 –	20	<b>T0-1-8220/...</b>	E 031728	
		1.8 3.6 –	32	<b>T3-1-8220/...</b>	E 038108	
	2	2.2 2.2 –	20	<b>T0-2-8221/...</b>	E 038847	
		3 5.5 –	32	<b>T3-2-8221/...</b>	E 045227	
		7.5 11 –	63	<b>T5B-2-8221/...</b>	E 093047	
	3	3 4 4	20	<b>T0-3-8222/...</b>	E 048339	
		6.5 12 15	32	<b>T3-3-8222/...</b>	E 052346	
		15 22 22	63	<b>T5B-3-8222/...</b>	E 092378	
	4	3 4 4	20	<b>T0-4-8223/...</b>	E 050712	
		6.5 12 15	32	<b>T3-4-8223/...</b>	E 059465	
		15 22 22	63	<b>T5B-4-8223/...</b>	E 092108	
		18.5 30 30	100	<b>T5-4-8223/...</b>	E 096010	
	5	3 4 4	20	<b>T0-5-8369/...</b>	E 060204	
		6.5 12 15	32	<b>T3-5-8369/...</b>	E 066584	
	6	3 4 4	20	<b>T0-6-8370/...</b>	E 062577	
		6.5 12 15	32	<b>T3-6-8370/...</b>	E 073703	
	8	3 4 4	20	<b>T0-8-8372/...</b>	E 064950	
		6.5 12 15	32	<b>T3-8-8372/...</b>	E 080822	

Standard pack: 1 off

**Notes**

- <sup>1)</sup> With black thumb-grip and grey front plate
- <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

### T Rotary Switches Control Switches: Changeover Switches

Centre mounting Front IP65	Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>EZ</b> 095799		<b>I1</b> 207078	<b>Z</b> 086312
<b>EZ</b> 001018		<b>I2</b> 207171	<b>Z</b> 040481
<b>EZ</b> 010372		<b>I1</b> 207104	<b>IVS</b> 057832
<b>EZ</b> 001025		<b>I2</b> 207180	<b>Z</b> 074450
–		<b>I4</b> 207221	<b>Z</b> 047600
<b>EZ</b> 015118		<b>I1</b> 207124	<b>Z</b> 093044
<b>EZ</b> 001069		<b>I2</b> 207185	<b>IVS</b> 060205
–		<b>I4</b> 207224	<b>Z</b> 088686
<b>EZ</b> 019864		<b>I1</b> 207137	<b>Z</b> 057092
<b>EZ</b> 001070		<b>I2</b> 207192	<b>Z</b> 092375
–		<b>I4</b> 207231	<b>IVS</b> 062578
<b>EZ</b> 024610		<b>I5</b> 207271	<b>Z</b> 086315
<b>EZ</b> 004503		–	<b>Z</b> 061838
<b>EZ</b> 029356		<b>I2</b> 207536	<b>Z</b> 092105
<b>EZ</b> 004506		–	<b>Z</b> 096008
<b>EZ</b> 034102		–	<b>IVS</b> 064951
<b>EZ</b> 004508		–	<b>Z</b> 098180
		–	<b>Z</b> 068957
		–	<b>IVS</b> 067324
		–	<b>Z</b> 010380
		–	<b>Z</b> 078449
		–	<b>IVS</b> 069697
		–	<b>Z</b> 012753
		–	<b>Z</b> 083195

Standard pack: 1 off

### T Rotary Switches Control Switches: Reversing Switches, Star-Delta Switches

Circuit diagram	Front plate no.	No. of poles	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninter-rupted current $I_u$	Flush mounting Front IP65	Basic type For ... insert mounting form	Mounting form Article no.	Price See Price List
			AC-3 220 V 230 V 240 V	380 V 400 V 440 V	660 V 690 V					
<b>Reversing switches with 0 (Off) position<sup>1)</sup></b>										
	FS 684	2	2.2	2.2	-	20	T0-2-8400/...	E 053079		
			3	5.5	-	32	T3-2-8400/...	E 073695		
			7.5	11	-	63	T5B-2-8400/...	E 092918		
	FS 684	3	3	4	4	20	T0-3-8401/...	E 091047		
			6.5	12	15	32	T3-3-8401/...	E 030992		
			15	22	22	63	T5B-3-8401/...	E 092296		
			18.5	30	30	100	T5-3-8401/...	E 096376		
<b>With spring-return from both directions to 0</b>										
	FS 4011	3	3	4	4	20	T0-3-8228/...	E 015112		
			6.5	12	15	32	T3-3-8228/...	E 002538		
			15	22	22	63	T5B-3-8228/...	E 092374		
<b>Star-delta switches<sup>1)</sup></b>										
	FS 635	3	4	5.5	5.5	20	T0-4-8410/...	E 024604		
			7.5	18.5	22	32	T3-4-8410/...	E 009657		
			22	37	37	63	T5B-4-8410/...	E 092052		
<b>Reversing Star-delta switches<sup>1)</sup></b>										
<b>Two-way switches</b>										
	FS 638	3	4	5.5	5.5	20	T0-5-15876/...	E 000893		
			7.5	18.5	22	32	T3-5-15876/...	E 016776		
	FS 4017	3	22	30	37	63	T5B-5-15876/...	E 214785		

Standard pack: 1 off

**Notes**

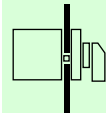
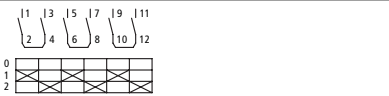

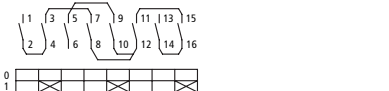

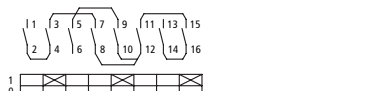

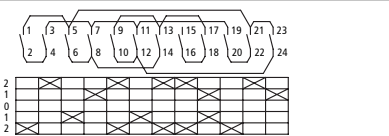


- <sup>1)</sup> With black thumb-grip and grey front plate
- <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

### T Rotary Switches Control Switches: Reversing Switches, Star-Delta Switches

Centre mounting Front IP65		Surface mounting <sup>2)</sup> IP65 <small>totally insulated</small>		Service distribution board mounting Front IP30		Rear mounting Front IP65	
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
EZ 055452		I1 207111		IVS 060198		Z 062571	
EZ 000687		I2 207181		-		Z 095060	
-		I4 207222		-		Z 092915	
EZ 093420		I1 207132		IVS 098166		Z 010366	
EZ 000694		I2 207188		-		Z 035739	
-		I4 207227		-		Z 092293	
-		I5 207268		-		Z 096374	
EZ 048334		I1 207125		IVS 062572		Z 074437	
EZ 000695		I2 207186		-		Z 004911	
-		I4 207225		-		Z 092371	
EZ 053080		I1 207140		IVS 064945		Z 083929	
EZ 000721		I2 207195		-		Z 012030	
-		I4 207234		-		Z 092049	
EZ 000900		-		IVS 000902		Z 000942	
EZ 000797		I2 207537		-		Z 019149	
-		-		-		Z 214786	

Standard pack: 1 off

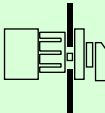

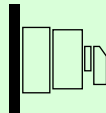
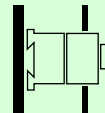
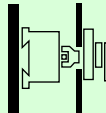
**T Rotary Switches**  
Control Switches: Multi-Speed Switches, Reversing Multi-Speed Switches

Circuit diagram	Front plate no.	No. of poles	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninterrupter current $I_u$	Basic type For ... insert mounting form	Flush mounting Front IP65 	Price See Price List
			M	kW	kW	kW	A		
	 FS 644	3	3	4	4	20	<b>T0-3-8451/...</b>	E 038849	
			6.5	12	15	32	<b>T3-3-8451/...</b>	E 028641	
			15	22	22	63	<b>T5B-3-8451/...</b>	E 092288	
	 FS 644	3	3	4	4	20	<b>T0-4-8440/...</b>	E 041222	
			6.5	12	15	32	<b>T3-4-8440/...</b>	E 035760	
			15	22	22	63	<b>T5B-4-8440/...</b>	E 092032	
	 FS 684	3	3	4	4	20	<b>T0-4-8441/...</b>	E 043595	
			6.5	12	15	32	<b>T3-4-8441/...</b>	E 042879	
			15	22	22	63	<b>T5B-4-8441/...</b>	E 092028	
	 FS 629	3	3	4	4	20	<b>T0-6-15866/...</b>	E 055460	
			6.5	12	15	32	<b>T3-6-15866/...</b>	E 054744	
		 FS 441	3	15	22	22	63	<b>T5B-7-15866/...</b>	E 214788

Standard pack: 1 off

- Notes**
- 1) With black thumb-grip and grey front plate
  - 2) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Multi-Speed Switches, Reversing Multi-Speed Switches

Centre mounting Front IP65 	Surface mounting 2)  IP65 	Service distribution board mounting Front IP30 	Rear mounting Front IP65 				
Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>EZ</b> 083936		<b>I1</b> 207133		<b>IVS</b> 026985		<b>Z</b> 043596	
<b>EZ</b> 000956		<b>I2</b> 207189		-		<b>Z</b> 031014	
-		<b>I4</b> 207228		-		<b>Z</b> 092285	
<b>EZ</b> 088682		<b>I1</b> 207141		<b>IVS</b> 029358		<b>Z</b> 048342	
<b>EZ</b> 000959		<b>I2</b> 207196		-		<b>Z</b> 038133	
-		<b>I4</b> 207235		-		<b>Z</b> 092029	
<b>EZ</b> 093428		<b>I1</b> 207142		<b>IVS</b> 031731		<b>Z</b> 053088	
<b>EZ</b> 000960		<b>I2</b> 207197		-		<b>Z</b> 045252	
-		<b>I4</b> 207236		-		<b>Z</b> 092025	
<b>EZ</b> 012747		-		<b>IVS</b> 036477		<b>Z</b> 067326	
<b>EZ</b> 000964		-		-		<b>Z</b> 057117	
-		-		-		<b>Z</b> 214789	

Standard pack: 1 off



**T Rotary Switches**  
Control Switches: Step Switches

Circuit diagram	Front plate no.	No. of poles	Steps	Basic type For ... insert mounting form	Flush mounting Front IP65		Centre mounting Front IP65	
					Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>Step switches<sup>1)</sup></b> One contact closed per step (without overlap) With additional 0 (Off) position								
		1	2	T0-1-8240/...	E 034105		EZ 043597	
		1	3	T0-2-8241/...	E 050716		EZ 053089	
		1	4	T0-2-8242/...	E 067327		EZ 069700	
		1	5	T0-3-8243/...	E 081565		EZ 083938	
		1	6	T0-3-8244/...	E 095803		EZ 098176	
		3	2	T0-3-8280/...	E 034106		EZ 036479	
		3	3	T0-5-8281/...	E 048344		EZ 050717	
		3	4	T0-6-8282/...	E 062582		EZ 064955	

Standard pack: 1 off

**Notes**  
 1) With black thumb-grip and grey front plate  
 2) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Step Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes	
			Mounting form Article no.	Price See Price List
I1 207079	IVS 027076	Z 060208	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090	
I1 207107	IVS 057835	Z 062581		
I1 207108	IVS 074446	Z 076819		
I1 207128	IVS 088684	Z 091057		
I1 207129	IVS 012749	Z 015122		
I1 207130	IVS 041225	Z 043598		
–	IVS 055463	Z 057836		
–	IVS 069701	Z 072074		

Standard pack: 1 off

**T Rotary Switches**  
Control Switches: Step Switches

Circuit diagram	Front plate no.	No. of poles	Steps	Basic type For ... insert mounting form	Flush mounting Front IP65		Centre mounting Front IP65	
					Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
	FS 943	1	2	T0-1-8220/...	E 031728		EZ 095799	
	FS 404	1	3	T0-2-8230/...	E 088685		EZ 091058	
	FS 606	1	4	T0-2-8231/...	E 012750		EZ 015123	
	FS 408	1	5	T0-3-8232/...	E 026988		EZ 029361	
	FS 410	1	6	T0-3-8233/...	E 041226		EZ 043599	
	FS 943	3	2	T0-3-8222/...	E 048339		EZ 015118	
	FS 404	3	3	T0-5-8270/...	E 091059		EZ 093432	
	FS 406	3	4	T0-6-8271/...	E 015124		EZ 017497	

Standard pack: 1 off

- Notes**
- 1) With black thumb-grip and grey front plate
  - 2) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Step Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes		
				Mounting form Article no.	Price See Price List
I1 207078	IVS 055459	Z 086312	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090		
I1 207105	IVS 095804	Z 098177			
I1 207106	IVS 019869	Z 022242			
I1 207126	IVS 034107	Z 036480			
I1 207127	IVS 048345	Z 050718			
I1 207124	IVS 060205	Z 088686			
-	IVS 098178	Z 010378			
-	IVS 022243	Z 024616			

Standard pack: 1 off

**T Rotary Switches**  
Control Switches: On-Off Switches, Changeover Switches

Circuit diagram	Front plate no.	No. of poles	Basic type For ... insert mounting form	Flush mounting Front IP65		Centre mounting Front IP65	
				Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>On-Off switches<sup>1)</sup></b>							
		1	<b>T0-1-15401/...</b>	<b>E</b> 038854		<b>EZ</b> 041227	
		2	<b>T0-1-15402/...</b>	<b>E</b> 053092		<b>EZ</b> 055465	
		3	<b>T0-2-15403/...</b>	<b>E</b> 067330		<b>EZ</b> 069703	
		4	<b>T0-2-15404/...</b>	<b>E</b> 081568		<b>EZ</b> 083941	
<b>Changeover switches<sup>1)</sup></b>							
		1	<b>T0-1-15421/...</b>	<b>E</b> 095806		<b>EZ</b> 098179	
		2	<b>T0-2-15422/...</b>	<b>E</b> 019871		<b>EZ</b> 022244	
		3	<b>T0-3-15423/...</b>	<b>E</b> 034109		<b>EZ</b> 036482	

Standard pack: 1 off

- Notes**
- <sup>1)</sup> With black thumb-grip and grey front plate
  - <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: On-Off Switches, Changeover Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes	
			Mounting form Article no.	Price See Price List
<b>I1</b> 207067	<b>IVS</b> 045973	<b>Z</b> 048346	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090	
<b>I1</b> 207068	<b>IVS</b> 060211	<b>Z</b> 062584		
<b>I1</b> 207088	<b>IVS</b> 074449	<b>Z</b> 076822		
<b>I1</b> 207089	<b>IVS</b> 088687	<b>Z</b> 091060		
<b>I1</b> 207069	<b>IVS</b> 012752	<b>Z</b> 015125		
<b>I1</b> 207090	<b>IVS</b> 026990	<b>Z</b> 029363		
<b>I1</b> 207114	<b>IVS</b> 041228	<b>Z</b> 043601		

Standard pack: 1 off

**T Rotary Switches**  
Control Switches: Hand/Auto Switches

Circuit diagram	Front plate no.	No. of poles	Basic type For ... insert mounting form	Flush mounting Front IP65		Centre mounting Front IP65	
				Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>Hand/Auto switches<sup>1)</sup></b> Hand/Auto switches with locking arrangement → Page 07/052 With 0 (Off) position							
		1	T0-1-15431/...	E 019872		EZ 022245	
		2	T0-2-15432/...	E 034110		EZ 036483	
		3	T0-3-15433/...	E 048348		EZ 050721	
<b>With spring-return from HAND</b>							
		1	T0-1-15434/...	E 062586		EZ 018053	
		2	T0-2-15435/...	E 003191		EZ 003192	
<b>With spring-return from START</b>							
		1	T0-2-15907/...	E 066931		EZ 069304	
<b>Without 0 (Off) position</b>							
		1	T0-1-15451/...	E 076824		EZ 079197	
		2	T0-2-15452/...	E 091062		EZ 093435	
		3	T0-3-15453/...	E 015127		EZ 017500	

Standard pack: 1 off

- Notes**
- <sup>1)</sup> With black thumb-grip and grey front plate
  - <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Hand/Auto Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes	
			Mounting form Article no.	Price See Price List
<b>I1</b> 207070	<b>IVS</b> 026991	<b>Z</b> 029364	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090	
<b>I1</b> 207091	<b>IVS</b> 041229	<b>Z</b> 043602		
<b>I1</b> 207115	<b>IVS</b> 055467	<b>Z</b> 057840		
<b>I1</b> 207071	<b>IVS</b> 069705	<b>Z</b> 072078		
<b>I1</b> 218971	<b>IVS</b> 003195	<b>Z</b> 003196		
<b>I1</b> 207095	<b>IVS</b> 076423	<b>Z</b> 078796		
<b>I1</b> 207072	<b>IVS</b> 083943	<b>Z</b> 086316		
<b>I1</b> 207092	<b>IVS</b> 098181	<b>Z</b> 010381		
<b>I1</b> 207116	<b>IVS</b> 022246	<b>Z</b> 024619		

Standard pack: 1 off

**T Rotary Switches**  
Control Switches: Spring-Return Switches

Circuit diagram	Front plate no.	No. of poles	Basic type For ... insert mounting form	Flush mounting Front IP65		Centre mounting Front IP65	
				Mounting form Article no.	Price See Price List	Mounting form Article no.	Price See Price List
<b>On-switch (make contact)<sup>1)</sup></b> Spring-return from position 1							
		1	T0-1-15321/...	E 086317		EZ 088690	
		2	T0-1-15322/...	E 010382		EZ 012755	
		3	T0-2-15323/...	E 024620		EZ 026993	
<b>On-Off switch<sup>1)</sup></b> Spring-return from positions 0 and 1							
		1	T0-1-15366/...	E 081572		EZ 083945	
<b>On-Off switch<sup>1)</sup></b> Spring-return from START							
		1	T0-1-15511/...	E 019875		EZ 022248	
		2	T0-2-15512/...	E 034113		EZ 036486	
		3	T0-3-15513/...	E 048351		EZ 050724	
		See K115	T0-2-8177/...	E 015130		EZ 017503	

Standard pack: 1 off

**Notes**

- <sup>1)</sup> With black thumb-grip and grey front plate
- <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Spring-Return Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes	
			Mounting form Article no.	Price See Price List
<b>I1</b> 207064	<b>IVS</b> 093436	<b>Z</b> 095809	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090	
<b>I1</b> 207065	<b>IVS</b> 017501	<b>Z</b> 019874		
<b>I1</b> 207087	<b>IVS</b> 031739	<b>Z</b> 034112		
<b>I1</b> 207066	<b>IVS</b> 088691	<b>Z</b> 091064		
<b>I1</b> 207073	<b>IVS</b> 026994	<b>Z</b> 029367		
<b>I1</b> 207093	<b>IVS</b> 041232	<b>Z</b> 043605		
<b>I1</b> 207117	<b>IVS</b> 055470	<b>Z</b> 057843		
<b>I1</b> 207101	<b>IVS</b> 022249	<b>Z</b> 024622		

Standard pack: 1 off

**T Rotary Switches**

Control Switches: Universal Control Switches, Coding Switches, Series Switches

Circuit diagram	Front plate no.	No. of poles	Basic type For ... Insert mounting form	Flush mounting Front IP65  Mounting form Article no.  Price See Price List	Centre mounting Front IP65  Mounting form Article no.  Price See Price List
<b>Universal control switches<sup>1)</sup></b>					
Stay-put switches with 3 positions 1 contact closed in each position; in addition: 1 contact closed in positions 0 and 1 1 contact closed in positions 0 and 2 1 contact closed in positions 1 and 2					
		--	<b>T0-3-15391/...</b>	<b>E</b> 029365	<b>EZ</b> 031738
As above, but with spring-return from positions 1 and 2					
		--	<b>T0-3-15394/...</b>	<b>E</b> 072079	<b>EZ</b> 074452
<b>Coding switches<sup>1)</sup></b>					
With complete rotation in both directions					
		Dual BCD CODE	<b>T0-4-15602/...</b>	<b>E</b> 029368	<b>EZ</b> 031741
<b>Series switches<sup>1)</sup></b>					
With 0 (Off) position (heater switches)					
		1	<b>T0-1-91/...</b>	<b>E</b> 072082	<b>EZ</b> 074455

Standard pack: 1 off

**Notes**

- <sup>1)</sup> With black thumb-grip and grey front plate
- <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**

Control Switches: Universal Control Switches, Coding Switches, Series Switches

Surface mounting <sup>2)</sup> IP65  Mounting form Article no.  Price See Price List	Service distribution board mounting Front IP30  Mounting form Article no.  Price See Price List	Rear mounting Front IP65  Mounting form Article no.  Price See Price List	Notes
<b>I1</b> 207112	<b>IVS</b> 036484	<b>Z</b> 038857	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090
<b>I1</b> 207113	<b>IVS</b> 079198	<b>Z</b> 081571	
<b>I1</b> 207134	<b>IVS</b> 036487	<b>Z</b> 038860	
<b>I1</b> 207080	<b>IVS</b> 079201	<b>Z</b> 081574	

Standard pack: 1 off

**T Rotary Switches**  
Control Switches: Instrument Selector Switches

Circuit diagram	Front plate no.	No. of poles		Flush mounting Front IP65	Centre mounting Front IP65
			<b>Basic type</b> For ... insert mounting form	<b>Mounting form</b> Article no.	<b>Price</b> See Price List
				<b>Mounting form</b> Article no.	<b>Price</b> See Price List
	 FS 1410755	3 × phase to phase with 0 (Off) position	<b>T0-2-15920/...</b>	<b>E</b> 038861	<b>EZ</b> 041234
	 FS 164854	3 × phase to phase without 0 (Off) position	<b>T0-2-15922/...</b>	<b>E</b> 053099	<b>EZ</b> 055472
	 FS 1410757	3 × phase to N with 0 (Off) position	<b>T0-2-15921/...</b>	<b>E</b> 067337	<b>EZ</b> 069710
	 FS 1410759	3 × phase to phase + 3 × phase to N with 0 (Off) position	<b>T0-3-8007/...</b>	<b>E</b> 095813	<b>EZ</b> 098186
	 FS 164721	3 × phase to phase + 3 × phase to N without 0 position with complete rotation in both directions	<b>T0-3-15924/...</b>	<b>E</b> 019878	<b>EZ</b> 022251
<b>Ammeter selector switches<sup>1)</sup></b> With complete rotation in both directions Measurement via current transformers					
	 FS 9440	With 0 (Off) position	<b>T0-3-8048/...</b>	<b>E</b> 034116	<b>EZ</b> 036489
<b>Voltmeter and ammeter selector switches<sup>1)</sup></b> With complete rotation in both directions Measurement via current transformers (For other circuits → catalogue K115)					
	 FS 928	With 0 (Off) position	<b>T0-3-8030/...</b>	<b>E</b> 013401	<b>EZ</b> 013402

Standard pack: 1 off

- Notes**
- <sup>1)</sup> With black thumb-grip and grey front plate
  - <sup>2)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**T Rotary Switches**  
Control Switches: Instrument Selector Switches

Surface mounting <sup>2)</sup> IP65	Service distribution board mounting Front IP30	Rear mounting Front IP65	Notes
<b>Mounting form</b> Article no.	<b>Price</b> See Price List	<b>Mounting form</b> Article no.	<b>Price</b> See Price List
<b>Mounting form</b> Article no.	<b>Price</b> See Price List	<b>Mounting form</b> Article no.	<b>Price</b> See Price List
<b>I1</b> 207098	<b>IVS</b> 029452	<b>Z</b> 048353	Suitable for actuating electronic devices Rated uninterrupted current $I_u$ 20 A Rated operational current $I_e$ AC-15 220 – 240 V 6 A 380 – 415 V 4 A AC-21A 12 A DC-13 32 V per contact 10 A Additional Technical Data → Page 07/090
<b>I1</b> 207100	<b>IVS</b> 060218	<b>Z</b> 062591	
<b>I1</b> 207099	<b>IVS</b> 074456	<b>Z</b> 076829	
<b>I1</b> 207120	<b>IVS</b> 012759	<b>Z</b> 015132	
<b>I1</b> 207119	<b>IVS</b> 026997	<b>Z</b> 029370	
<b>I1</b> 207122	<b>IVS</b> 041235	<b>Z</b> 043608	
<b>I1</b> 207121	<b>IVS</b> 013404	<b>Z</b> 013406	

Standard pack: 1 off

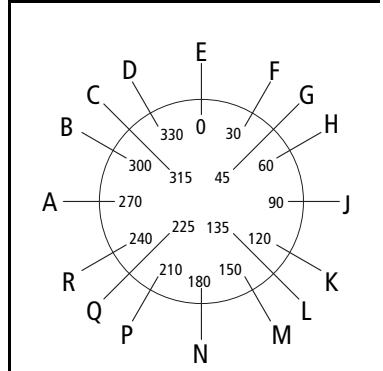
**T Rotary Switches, P Switch-Disconnectors**  
Switches with Locking Arrangements

Circuit diagram	Front plate no.	No. of poles	Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz			Rated uninter-rupted current	Flush mounting IP65	Type Article no.	Price See Price List
	FS 908	3	AC-3 220 V 230 V 240 V	380 V 400 V 440 V	660 V 690 V	$I_u$			
			kW	kW	kW	A			
<b>Switches with locking arrangements, KMS1 lock mechanism</b>									
<b>Panic switches without Emergency-Stop function<sup>1)</sup></b>									
<b>With SVA cylinder lock</b>									
Key withdrawable in positions 0 and 1 When the key is withdrawn in position 1, the switch can still be switched Off, but cannot be switched back On again without the key									
	FS 908	3	3	4	4	20		T0-2-1/E/SVA(S) 050977	
			4	5.5	7.5	25		P1-25/E/SVA(S) 050966	
			5.5	11	15	32		P1-32/E/SVA(S) 044977	
			5.5	11	15	32		T3-2-1/E/SVA(S) 050983	
<b>On-Off switch without Emergency-Stop function<sup>1)</sup></b>									
<b>With SVA cylinder lock</b>									
Key withdrawable in 0 position only (code letter A)									
	FS 908	3	3	4	4	20		T0-2-1/E/SVA(A) 050976	
			4	5.5	7.5	25		P1-25/E/SVA(A) 050965	
			5.5	11	15	32		P1-32/E/SVA(A) 050970	
			5.5	11	15	32		T3-2-1/E/SVA(A) 050982	
<b>Panic switches with Emergency-Stop function<sup>2)</sup></b>									
<b>With SVA cylinder lock</b>									
Key withdrawable in positions 0 and 1 When the key is withdrawn in position 1, the switch can still be switched Off, but cannot be switched back On again without the key									
	FS 908 GE	3	3	4	4	20		T0-2-1/E/SVA(S)-RT 228971	
			4	5.5	7.5	25		P1-25/E/SVA(S)-RT 050967	
			5.5	11	15	32		P1-32/E/SVA(S)-RT 050971	
			5.5	11	15	32		T3-2-1/E/SVA(S)-RT 044972	
<b>Panic switches with Emergency-Stop function<sup>2)</sup></b>									
<b>With SVC padlocking feature</b>									
Locking slide can be padlocked in positions 0 and 1. When the locking slide is padlocked in position 1, the switch can still be switched Off, but cannot be switched back On again without first removing the padlock. Lockable using up to 3 padlocks.									
	FS 908 GE	3	3	4	4	20		T0-2-1/E/SVC(S)-RT 044973	
			4	5.5	7.5	25		P1-25/E/SVC(S)-RT 044974	
			5.5	11	15	32		P1-32/E/SVC(S)-RT 044975	
			5.5	11	15	32		T3-2-1/E/SVC(S)-RT 044976	
<b>On-Off switches without Emergency-Stop function<sup>1)</sup></b>									
<b>With S-T0 key operation</b>									
Key withdrawable in position 0 only (code letter A)									
	FS 908	2	2.2	2.2	-	20		T0-1-102/EZ/S 014933	

Notes  
<sup>1)</sup> With black thumb-grip and grey front plate  
<sup>2)</sup> To IEC/EN 60204-1; with red thumb-grip and yellow front plate

**T Rotary Switches, P Switch-Disconnectors**  
Switches with Locking Arrangements

Surface mounting <sup>3)</sup> IP65	Rear mounting IP65	Notes
Type Article no.	Type Article no.	Std. pack
Price See Price List	Price See Price List	
T0-2-1/I1/SVA(S) 207084	-	1 off
P1-25/I2/SVA(S) 207305	-	
P1-32/I2/SVA(S) 207326	-	
T3-2-1/I2/SVA(S) 207173	-	
T0-2-1/I1/SVA(A) 207083	T0-2-1/Z/SVA(A) 050978	
P1-25/I2/SVA(A) 207304	P1-25/Z/SVA(A) 050969	
P1-32/I2/SVA(A) 207325	P1-32/Z/SVA(A) 050973	
T3-2-1/I2/SVA(A) 207172	T3-2-1/Z/SVA(A) 050984	
T0-2-1/I1/SVA(S)-RT 207085	-	
P1-25/I2/SVA(S)-RT 207306	-	
P1-32/I2/SVA(S)-RT 207327	-	
T3-2-1/I2/SVA(S)-RT 207174	-	
T0-2-1/I1/SVC(S)-RT 207086	-	
P1-25/I2/SVC(S)-RT 207307	-	
P1-32/I2/SVC(S)-RT 207328	-	
T3-2-1/I2/SVC(S)-RT 207175	-	
T0-1-102/I1/S 207063	T0-1-102/Z/S 014971	


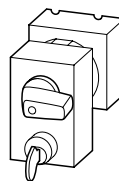
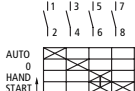

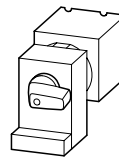
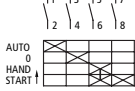



Code letters for lockable switch positions  
Letter S for panic lock with FS908GE

<sup>3)</sup> Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070  
<sup>4)</sup> Degree of protection IP53



**T Rotary Switches**  
Switches with Locking Arrangements

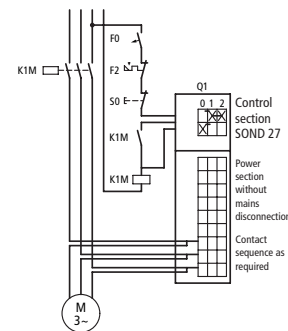
Circuit diagram	Front plate no.	Rated uninterrupted current	Flush mounting Front IP65	Type Article no.	Price See Price List
		$I_u$			
		A			
<b>Switches with locking arrangements, KMS1 lock mechanism</b>					
<b>Hand/Auto switches with SVA cylinder lock</b>					
	Key withdrawable in all positions. When the key is withdrawn in the HAND position, then START can be actuated without first removing the padlock, but not position 0 (only admissible with separate Off switch)				
		20		<b>T0-2-15907/E/SVA(C,E,G-J)</b> 050979	
		32		<b>T3-2-15907/E/SVA(C,E,G-J)</b> 050985	
<b>Hand/Auto switches with SVC padlocking feature</b>					
	Locking slide can be padlocked in all positions. When the locking slide is padlocked in the HAND position, then START can be actuated without the key, but not position 0 (only admissible with separate Off switch)				
		20		<b>T0-2-15907/E/SVC(C,E,G-J)</b> 044996	
		32		<b>T3-2-15907/E/SVC(C,E,G-J)</b> 044997	

**Notes** 1) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/070

**Contactor interlocking circuits**  
Control section for standard contactor interlocking circuits. If a standard switch is to contain one of the contactor interlocking circuits as well, it can be ordered using another circuit number from catalogue K115, or as a non-standard switch.

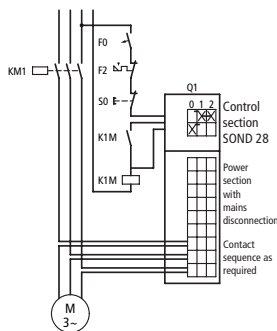
The electrical interlocking of rotary switch and contactor makes possible a wide range of control functions. For example: remote disconnection via a stop switch, overload protection via overload relays, protection against automatic restarting after a power failure or overload, and Off position interlocking, etc.

SOND 27



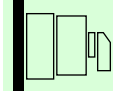
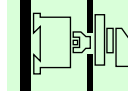
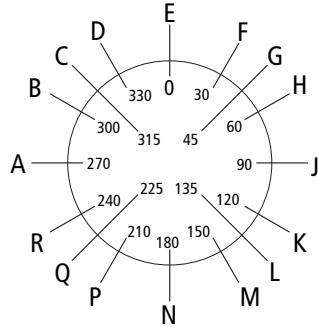
Mains disconnection **only** by contactor. Restarting possible only with the rotary switch in the Off position.  
Application: primarily for star-delta circuits (only at 60° or 90° switching angles)

SOND 28

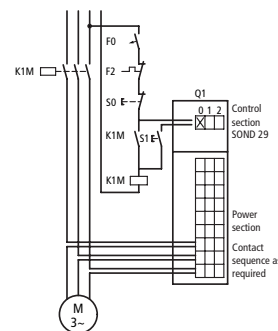


Mains disconnection by contactor and rotary switch together. Restarting: as SOND 27  
Application: primarily for star-delta and changeover circuits (only at 60° or 90° switching angles)

**T Rotary Switches**  
Switches with Locking Arrangements

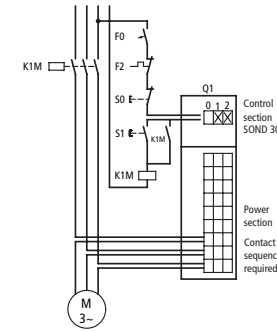
Surface mounting <sup>1)</sup> IP65	Rear mounting Front IP65	Notes										
												
Type Article no.	Type Article no.	Std. pack										
Price See Price List	Price See Price List											
<p>Suitable for actuating electronic devices                  Rated uninterrupted current <math>I_u</math> 20 A                  Rated operational current <math>I_e</math></p> <table border="1"> <tr> <td>AC-15</td> <td></td> </tr> <tr> <td>220 – 240 V</td> <td>6 A</td> </tr> <tr> <td>380 – 415 V</td> <td>4 A</td> </tr> <tr> <td>AC-21A</td> <td>12 A</td> </tr> <tr> <td>DC-13</td> <td>32 V per contact 10 A</td> </tr> </table> Additional Technical Data → Page 07/090			AC-15		220 – 240 V	6 A	380 – 415 V	4 A	AC-21A	12 A	DC-13	32 V per contact 10 A
AC-15												
220 – 240 V	6 A											
380 – 415 V	4 A											
AC-21A	12 A											
DC-13	32 V per contact 10 A											
<b>T0-2-15907/I1/SVA(C,E,G-J)</b> 207096	–	1 off										
<b>T3-2-15907/I2/SVA(C,E,G-J)</b> 207176	–											
<b>T0-2-15907/I1/SVC(C,E,G-J)</b> 207097	<b>T0-2-15907/Z/SVC(C,E,G-J)</b> 050980											
<b>T3-2-15907/I2/SVC(C,E,G-J)</b> 207177	<b>T3-2-15907/Z/SVC(C,E,G-J)</b> 050986											
<p>Rotary switches with an SVA locking arrangement can also be used as Operating Mode Selector Switches for the purposes of EU Machine Directive 89/392 (Minimum switching angle: 60°)</p> <p><b>Code letters for lockable switch positions</b></p> 												

SOND 29



Mains connection by contactor, **only** with the rotary switch in the Off position (Off position interlock)  
Application: star-delta, changeover and multi-speed circuits

SOND 30



Mains connection by contactor, **only** with the rotary switch in a run position. Each change in the switch position causes the contactor to drop out  
Application: changeover and multi-speed circuits

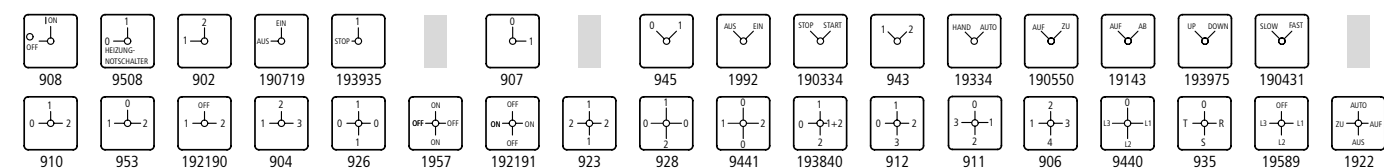
T Rotary Switches, P Switch-Disconnectors  
Front Plates

Switch size	Dimensions mm	Standard front plates			Emergency-Stop front plates Yellow		
		Type Article no. State the front plate no. required	Price See Price List	Std. pack	Type Article no.	Price See Price List	Std. pack
T0, T3, P1	45 × 45 (for frame size 48 × 48)	FS...-T0 903197		10 off	FS908 GE-T0 003198		5 off
P3, T5, T5B	84 × 84 (for frame size 88 × 88)	FS...-P3 995545		10 off	FS908 GE-P3 031475		5 off
TM	29 × 29 (for frame size 30 × 30)	-		-	-		-

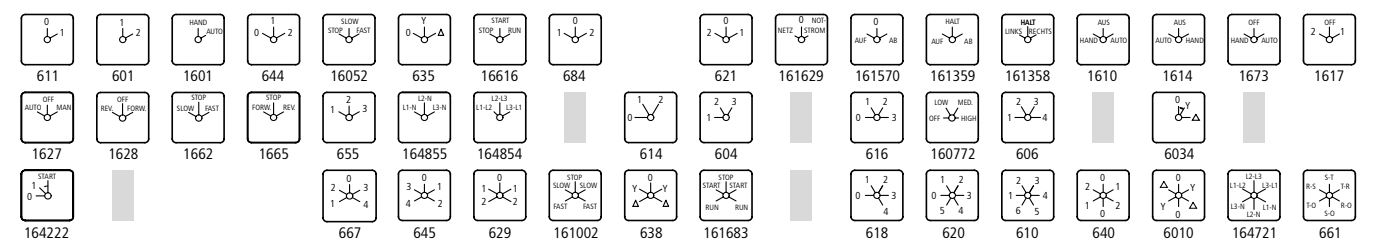
Standard front plates

The standard front plates illustrated should be used for non-standard switches where possible. Standard catalogue front plates for standard switches can be exchanged on request with order, for those illustrated here, at no extra charge (not applicable to T6, T8 and TM), provided the switching angles, the number of switch positions, and the location of the 0 (Off) position match.  
Example: T0-1-8210/E+FS161570

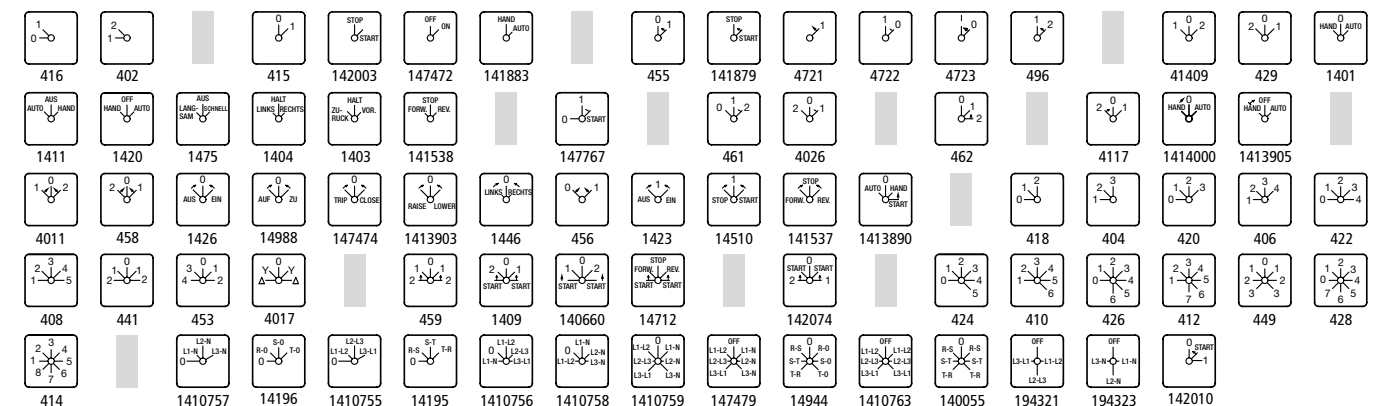
Switching angle 90°



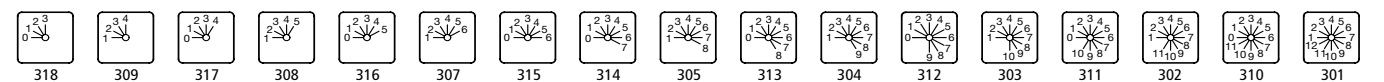
Switching angle 60°



Switching angle 45°



Switching angle 30°



T Rotary Switches, P Switch-Disconnectors  
Front Plates

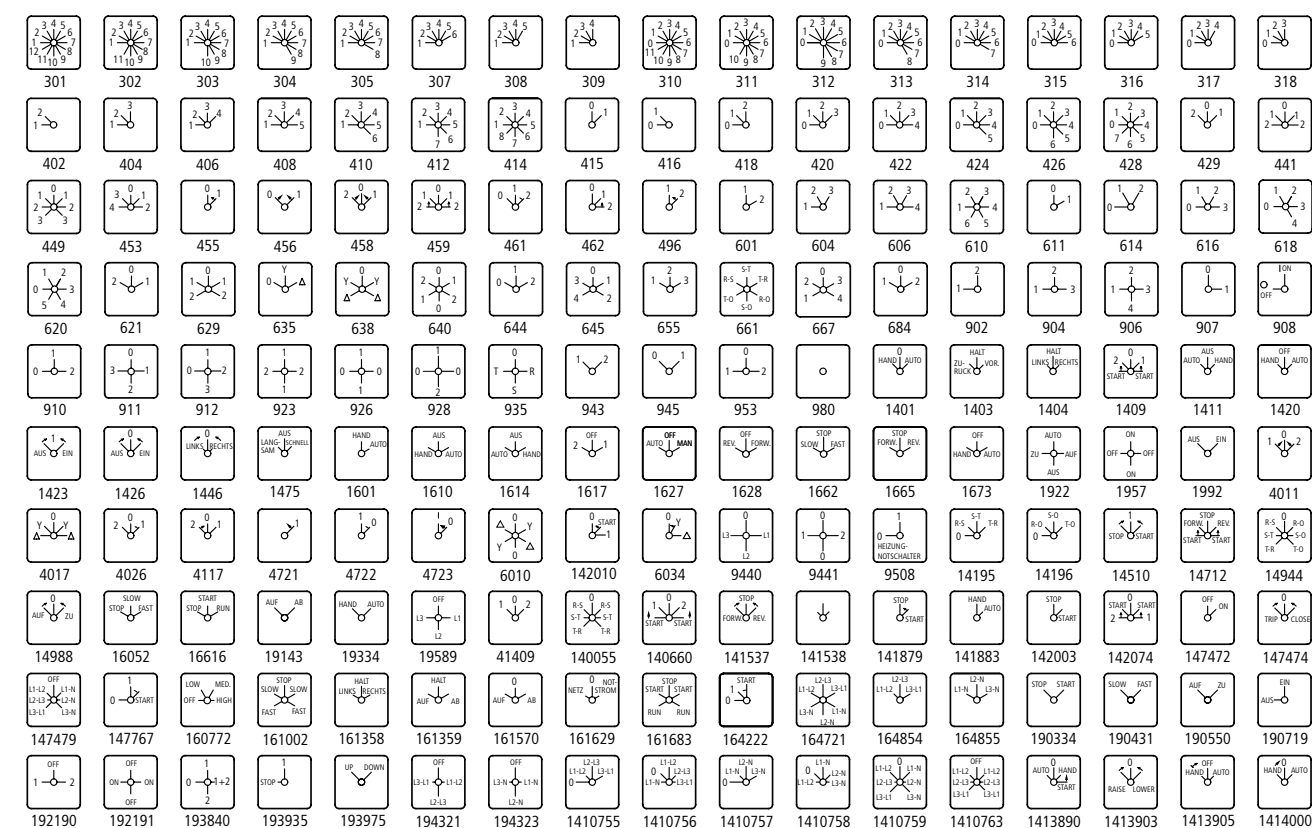
Blank plates Can be engraved	Type Article no.	Price See Price List	Std. pack	Non-standard front plates			
				Type Article no.	Price See Price List		
	FS980-T0 003199		50 off	FS-SOND-ERSTBESTELLUNG-T0 <sup>1)</sup> 225355	5 off	4	3
	FS980-P3 043340		50 off	FS-SOND-ERSTBESTELLUNG-P3 <sup>2)</sup> 225356	5 off	8	5
	FS980-TM-E 071438		10 off	FS-SOND-TM-E 092829	5 off	3.5	2.5
	FS980-TM-EZ 073811		50 off	FS-SOND-TM-EZ 095202	5 off	3.5	2.5

<sup>1)</sup> = first order; for subsequent orders use FS...-T0  
<sup>2)</sup> = first order; for subsequent orders use FS...-P3

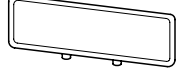
Non-standard front plates

Inscription to order (note maximum number of characters per field).  
The FS number is sufficient for reordering.  
For non-standard T0, T3 and T5(B) switches, the front plate is included in the price.  
For standard switches, the front plate is included in the price for orders exceeding 49 off.  
→ Page 07/113

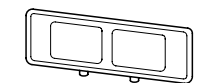
Standard front plates  
arranged in their numerical sequence:



**T Rotary Switches, P Switch-Disconnectors**  
Accessories

For use with	Type suffix Article no.	Price See Price List	Std. pack	Type Article no.	Price See Price List	Std. pack
<b>Add-on front plates, clip-on</b>						
						
For use with front plates and for padlocking features. They comprise a black label mount and an insert plate.						
Blank, can be engraved	T.../I2/SVB(-SW) and P.../I2/SVB(-SW) except.../I1, 2.../IVS T..., P..., except.../I1, 2, 3 .../IVS	-		<b>ZFS60-T0</b> 019924		25 off
With inscription: "Main switch - Open only in the Off position"	T.../E, T.../Z, P.../E, P.../Z 61/62 = German/English 63 = French 64 = Bulgarian 65 = Danish 66 = Finnish 67 = Dutch 68 = Italian 69 = Greek 70 = Norwegian 71 = Polish 72 = Portuguese 73 = Romanian 74 = Russian 75 = Swedish 76 = Serbo-Croat 77 = Spanish 78 = Czech 79 = Turkish 80 = Hungarian 81 = Afrikaans	<b>+ZFS61/62-T0</b> 065740 <b>+ZFS63-T0</b> 065741 <b>+ZFS64-T0</b> 205501 <b>+ZFS65-T0</b> 205502 <b>+ZFS66-T0</b> 205503 <b>+ZFS67-T0</b> 065744 <b>+ZFS68-T0</b> 065745 <b>+ZFS69-T0</b> 205504 <b>+ZFS70-T0</b> 205505 <b>+ZFS71-T0</b> 205506 <b>+ZFS72-T0</b> 205507 <b>+ZFS73-T0</b> 205508 <b>+ZFS74-T0</b> 205509 <b>+ZFS75-T0</b> 205510 <b>+ZFS76-T0</b> 205511 <b>+ZFS77-T0</b> 065746 <b>+ZFS78-T0</b> 205512 <b>+ZFS79-T0</b> 205513 <b>+ZFS80-T0</b> 205514 <b>+ZFS81-T0</b> 205515	1off	<b>ZFS61/62-T0</b> 030170 <b>ZFS63-T0</b> 047424 <b>ZFS64-T0</b> 205535 <b>ZFS65-T0</b> 205536 <b>ZFS66-T0</b> 205537 <b>ZFS67-T0</b> 065750 <b>ZFS68-T0</b> 065751 <b>ZFS69-T0</b> 205538 <b>ZFS70-T0</b> 205539 <b>ZFS71-T0</b> 205540 <b>ZFS72-T0</b> 205541 <b>ZFS73-T0</b> 205542 <b>ZFS74-T0</b> 205543 <b>ZFS75-T0</b> 205544 <b>ZFS76-T0</b> 205545 <b>ZFS77-T0</b> 065752 <b>ZFS78-T0</b> 205546 <b>ZFS79-T0</b> 205547 <b>ZFS80-T0</b> 205548 <b>ZFS81-T0</b> 205549		25 off

**Label mounts, black**




T.../I2/SVB(-SW) and P.../I2/SVB(-SW) except.../I1, 2.../IVS  
T..., P..., except.../I1, 2, 3 .../IVS

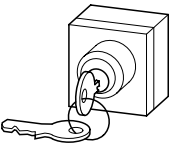

**ZFSX-T0**  
024670

25 off

**T Rotary Switches, P Switch-Disconnectors**  
Accessories

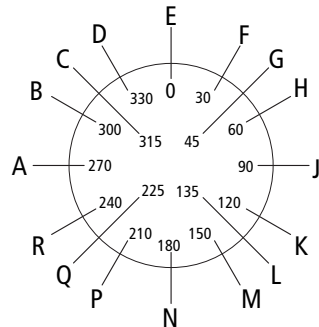
Type suffix Article no.	Price See Price List	Std. pack	Type Article no.	Price See Price List	Std. pack
<b>Add-on front plates, clip-on</b>					
					
For use with front plates and for padlocking features. They comprise a black label mount and an insert plate.					
-			<b>ZFS60-P3</b> 022297		25 off
<b>+ZFS61/62-P3</b> 065742 <b>+ZFS63-P3</b> 065743 <b>+ZFS64-P3</b> 205518 <b>+ZFS65-P3</b> 205519 <b>+ZFS66-P3</b> 205520 <b>+ZFS67-P3</b> 065747 <b>+ZFS68-P3</b> 065748 <b>+ZFS69-P3</b> 205521 <b>+ZFS70-P3</b> 205522 <b>+ZFS71-P3</b> 205523 <b>+ZFS72-P3</b> 205524 <b>+ZFS73-P3</b> 205525 <b>+ZFS74-P3</b> 205526 <b>+ZFS75-P3</b> 205527 <b>+ZFS76-P3</b> 205528 <b>+ZFS77-P3</b> 065749 <b>+ZFS78-P3</b> 205529 <b>+ZFS79-P3</b> 205530 <b>+ZFS80-P3</b> 205531 <b>+ZFS81-P3</b> 205532	1off	<b>ZFS61/62-P3</b> 065739 <b>ZFS63-P3</b> 047423 <b>ZFS64-P3</b> 205552 <b>ZFS65-P3</b> 205553 <b>ZFS66-P3</b> 205554 <b>ZFS67-P3</b> 065753 <b>ZFS68-P3</b> 065754 <b>ZFS69-P3</b> 205555 <b>ZFS70-P3</b> 205556 <b>ZFS71-P3</b> 205557 <b>ZFS72-P3</b> 205558 <b>ZFS73-P3</b> 205559 <b>ZFS74-P3</b> 205560 <b>ZFS75-P3</b> 205561 <b>ZFS76-P3</b> 205562 <b>ZFS77-P3</b> 047422 <b>ZFS78-P3</b> 205563 <b>ZFS79-P3</b> 205564 <b>ZFS80-P3</b> 205565 <b>ZFS81-P3</b> 205566		25 off	
ZFS61/62-... included as standard with T.../EA/SVB, P.../EA/SVB T.../V/SVB, P.../V/SVB					
-			<b>ZFSX-P3</b> 027043		25 off
ZFSX...-T0 and ZFSX...-P3 can be used for any T... and P... switches, as required. ZFSX...-T0: dimensions with frame W × H = 48 × 17 mm ZFSX...-P3: dimensions with frame W × H = 88 × 27 mm					

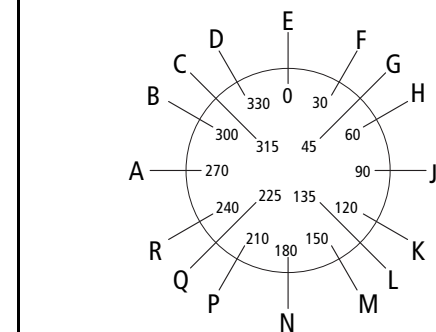
**T Rotary Switches, P Switch-Disconnectors**  
Accessories

For use with	Key withdrawal	Type suffix Article no. When ordered with basic unit	Price See Price List
<b>S-T0 key operated lock mechanism, Front IP53</b> Includes two keys			
 <p>KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems</p> <p>KMS 2-10<sup>1)</sup> lock mechanisms KMS 201-400<sup>1)</sup> lock mechanisms Individual lock mechanisms, not suitable for master key systems</p> <p>There is no master key for KMS...- lock mechanisms</p> <p>(SAE) = Individual lock mechanism supplied with a security certificate</p> <p>(SA...) = Master key system (with master key) supplied with a security certificate. See also note below.<sup>2)</sup></p>	<p>T0-.../E, .../I1, .../Z Up to 6 contact units</p> <p>T3-.../E, .../I2, .../Z Up to 5 contact units</p> <p>P1-.../E, .../I2, .../Z</p>	<p>Key withdrawal positions are programmed ex-works to match the switch</p>	<p><b>+S-T0</b> 001753</p>
			<p><b>+S-SOND(KMS...)-T0</b> 903210</p>
			<p><b>+S-SOND(SAE)-T0</b> 003212</p>
			<p><b>+S-SOND-(SA...)-T0</b> 914737</p>
<b>SVA-T3 cylinder lock, Front IP65</b> Includes two keys			
 <p>Key withdrawable in all positions</p> <p>KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems</p> <p>KMS 2-10<sup>1)</sup> lock mechanisms KMS 201-400<sup>1)</sup> lock mechanisms Individual lock mechanisms, not suitable for master key systems</p> <p>Key can be withdrawn in positions as specified</p> <p>KMS 1 lock mechanism Switches with FS 908 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</p> <p>KMS 2-10<sup>1)</sup> lock mechanisms KMS 201-400<sup>1)</sup> lock mechanisms Individual lock mechanisms, not suitable for master key systems</p> <p>(SAE) = Individual lock mechanism supplied with a security certificate</p> <p>(SA...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan (FO276) showing the full configuration of the envisaged lock system. For subsequent part orders, simply state the item number within the lock plan, e.g. (X4711, item 7).<sup>2)</sup></p>	<p>T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z</p>	<p>Key withdrawal positions are programmed ex-works to match the switch</p>	<p><b>+SVA-T3</b> 050962</p>
			<p><b>+SVA-SOND-KMS...-T3</b> 907739</p>
			<p><b>+SVA(...)-T3</b> 907737</p>
			<p><b>+SVA(...)-SOND-KMS...-T3</b> 907734</p>
<p><b>+SVA(...)-SOND-SAE-T3</b> 907736</p>			
<p><b>+SVA(...)-SOND-(SA...)-T3</b> 914735</p>			

**Notes**  
 1) KMS 1: can be supplied ex-stock; KMS 2 - 10, 201 - 400 and master key systems: delivery time < 6 weeks from order receipt at the factory  
 2) For subsequent orders, the keys must be ordered separately → Page 07/061

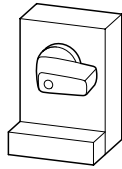
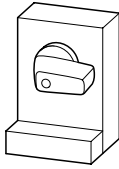



**T Rotary Switches, P Switch-Disconnectors**  
Accessories

Key withdrawal	Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
Key withdrawal positions can be programmed by the user	<p><b>S-T0</b> 086709</p> <p><b>S-SOND(KMS...)-T0</b> 903207</p> <p><b>S-SOND(SAE)-T0</b> 003209</p> <p><b>S-SOND-(SA...)-T0</b> 991023</p>		1 off	<p>S-T0 can be used for P1-..., T0-1... to T0-6... and T3-1... to T3-5... switches. The key replaces the thumb-grip. Switching is not possible without the key. The switch position indicator is on the lock. In standard applications, the key can be withdrawn in any position, on switches with FS908, only in the Off position. New positions for key withdrawal can be selected (even retrospectively) by fitting VR-T0 locking cams. The switching angle is determined by the switch. When retrofitting the S-T0, use the front plate of the switch. Lock mechanism: standard KMS 1 (CES lock)</p>
Key withdrawal positions can be programmed by the user	<p><b>SVA-T3</b> 050974</p> <p><b>SVA-SOND-KMS...-T3</b> 907747</p>		1 off	<p>SVA-T3 can be fitted to T0, T3 and P1 switches. Switching is carried out using the thumb-grip. The switch is locked by turning the key; the key is withdrawable. In standard applications, all positions are lockable. Lock mechanism: standard KMS 1 (CES lock). Individual positions or ranges can be locked (also with VR-T3 fitted by the user). The key cannot be withdrawn in positions which are not lockable. Where ranges are locked, switching without the key is possible only within a locked range. The lockable positions or ranges are shown below; use the code letters to state your selection on the order:                      Example 1: SVA(A)-T3 = Only position A lockable                      Example 2: SVA(A, E)-T3 = Positions A and E lockable                      Example 3: SVA(A-J)-T3 = Range A to J lockable                      Example 4: SVA(S)-T3 = Main switches, for use as Emergency-Stop devices to IEC/EN 60 204-1; with red handle and yellow front plate as panic lock version, lockable in positions A and E; switching is still possible from E to A, but not from A to E. When retrofitting the SVA-T3, use the front plate of the switch. With letter S for panic lock, use FS908GE. Ordering example: P1-25/I2-RT+SVA(S)-T3</p>
Key withdrawal positions are programmed ex-works as ordered	<p><b>SVA(...)-T3</b> 907745</p> <p><b>SVA(...)-SOND-KMS...-T3</b> 907742</p> <p><b>SVA(...)-SOND-SAE-T3</b> 907744</p> <p><b>SVA(...)-SOND-(SA...)-T3</b> 914736</p>			 <p>Letter S for panic lock with FS908GE</p> <p>Ordering example: SVA(A-G)-SOND-(SAA 6294-1/2)</p>



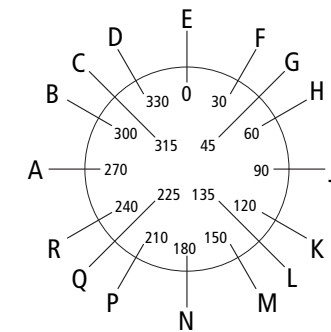
Letter S for panic lock with FS908GE  
 Ordering example:  
 SVA(A-G)-SOND-(SAA 6294-1/2)

**T Rotary Switches, P Switch-Disconnectors**  
Accessories

For use with	Locking facility	Type suffix Article no. When ordered with basic unit	Price See Price List
<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	Lockable positions are programmed ex-works to match the switch	<b>+SVC-T3</b> 050963
Specified positions or ranges are lockable Switches with F5908 may be used as main switches for	T0-1-... to T0-4-.../I1, .../E T3-1-... to T3-5-.../I2 T3-1-... to T3-6-.../E P1-.../I2, .../E	Lockable positions are programmed ex- works as ordered	<b>+SVC(...)-T3</b> 907740
<b>DTV-T3 push-button interlock, Front IP65</b> Only after depressing the release button is it possible to switch from an unlocked position or range into a locked position or range, but not the reverse (protection against tampering). With a padlock in place when the release button is in the non-actuated position, it is not possible to switch into the locked positions.			
			
	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z Lockable using 2 padlocks	Lockable positions are programmed ex-works to match the switch	<b>+DTV-T3</b> 050961
Specified positions locked Release mechanism can be locked in the non-actuated position with 1-2 padlocks		Lockable positions are programmed ex- works as ordered	<b>+DTV(...)-T3</b> 907733
<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	-	
			
For changing the locked positions/ranges	SVA-T3, SVC-T3, for all switching angles for DTV-T3: order 2 x VR-T3	-	
			
<b>Keys</b>			
			
For KMS 1 individual lock mechanism	S-T0, SVA-T3	-	
For KMS 2 – 10 individual lock mechanism or KMS 201 – 400	S-T0, SVA-T3	-	
For master key systems and recorded individual lock mechanisms: state lock plan no. and lock	S-T0, SVA-T3	-	

**T Rotary Switches, P Switch-Disconnectors**  
Accessories


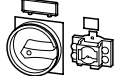



Locking facility	Type Article no. When ordered separately	Price See Price List	Std. pack	Notes
Lockable positions can be programmed by the user	<b>SVC-T3</b> 050975		1 off	<p>SVC-T3 can be fitted to T0, T3 and P1 switches. Switching is carried out using the thumb-grip, and interlocking by depressing an actuator which can be locked in position using up to 3 padlocks. In standard applications, all positions are lockable. With type reference SVC(...)-T3, only the specified positions or ranges are lockable. Where ranges are locked, switching is possible only within a locked range, unless the padlock is removed first.</p> <p>The lockable positions or ranges for SVC(...)-T3 and the locked position for DTV(...)-T3 are shown below. As with SVA(...)-T3, use the code letters to state your selection on the order:                      Example 1: SVC(A)-T3 = Only position A lockable                      Example 2: SVC(A, E)-T3 = Positions A and E lockable                      Example 3: SVC(A-J)-T3 = Range A to J lockable                      Example 4: DTV(G)-T3 = The release mechanism must be actuated to allow switching in this position.                      Example 5: SVC(S)-T3 = Main switches, for use as Emergency-Stop devices to IEC / EN 60 204-1; with red handle and yellow front plate as panic lock version, lockable in positions A and E; switching is still possible from E to A, but not from A to E. When retrofitting the SVA-T3, use the front plate of the switch. With letter S for panic lock, use FS908GE. Ordering example: P1-25/I2-RT+SVC(S)-T3</p>
Lockable positions are programmed ex-works as ordered	<b>SVC(...)-T3</b> 907748		1 off	
	-		1 off	
	-		1 off	
	<b>VR-T0</b> 089082		1 off	
	<b>VR-T3</b> 050987		1 off	
	<b>SVS-KMS1</b> 001871		1 off	
	<b>SVS-KM...</b> 914714			
	<b>SVS-SA(...)</b> 901982			



Master keys must always be ordered separately. Please send or submit the security certificate with repeat orders. For SA(...), the precise designation of the key must be stated e.g. SVS-SA(A6294-1/2)

## T Rotary Switches, P Switch-Disconnectors

## Accessories

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
<b>Main switch assembly kits</b>			
 <p>Padlocking feature, exclusively for main switches, to permit them to be used as Emergency-Stop devices<sup>1)</sup> Admissible for T0 up to 4 contact units and for T3... up to 6 contact units</p>	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	<b>+SVB-T0</b> 026450	
	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>+SVB-P3</b> 026364	
<p>Padlocking feature, exclusively for main switches without Emergency-Stop function Black handle, black locking collar Admissible for T0 up to 4 contact units and for T3... up to 6 contact units</p>	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	<b>+SVB-SW-T0</b> 076917	
	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	-	
<b>Main switch assembly kits, with PE terminal and N terminal</b>			
 <p>Padlocking feature, exclusively for main switches, to permit them to be used as Emergency-Stop devices<sup>1)</sup> Admissible for T0 up to 4 contact units and for T3... up to 6 contact units</p>	T0-.../E, .../Z T3-.../E, .../Z	-	
	T5(B)-.../E, .../Z	-	
<p>Padlocking feature, exclusively for main switches without Emergency-Stop function Black handle, black locking collar Admissible for T0 up to 4 contact units and for T3... up to 6 contact units</p>	T0-.../E, .../Z T3-.../E, .../Z	-	
	T5(B)-.../E, .../Z	-	
<b>Thumb-grips</b>			
 <p>Black</p>	T0-.../E, .../EZ, .../IVS, .../Z, .../I1 T3-.../E, .../EZ, .../IVS, .../Z, .../I2 P1-.../E, .../EZ, .../IVS, .../Z, .../I2	-	
	Red	T0-.../E, .../IVS, .../Z, .../I1 T3-.../E, .../IVS, .../Z, .../I2 P1-.../E, .../IVS, .../Z, .../I2	<b>+KNB-RT-T0</b> 003214
 <p>Black</p>	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	-	
	Red	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>+KNB-RT-P3</b> 003215
<b>Maintenance keys</b>			
<p>For interlocked main switches</p> 	T0-.../V, T3-.../V, P1-.../V	-	
	T5(B)-.../V, P3-.../V	-	

## Notes

<sup>1)</sup> To IEC/EN 60 204-1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position

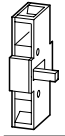
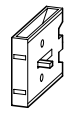
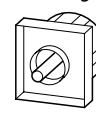

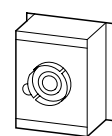
## T Rotary Switches, P Switch-Disconnectors

## Accessories

Type Article no. When ordered separately	Price See Price List	Std. pack	
<b>SVB-T0</b> 057892		1 off	For locking in the 0 (Off) position: For switches with the positions 0 – I at 90° switching angle, as front plate: FS908
<b>SVB-P3</b> 052999		1 off	
<b>SVB-SW-T0</b> 060265		1 off	For locking in the Off position or in the On position if required. Lockable using up to 3 padlocks
<b>SVB-SW-P3</b> 062491		1 off	Padlocks with KMS lock mechanism, Type 219/38 (KMS...): please enquire.
<b>V/EA/SVB-T0</b> 062638		1 off	For conversion of:  <ul style="list-style-type: none"> <li>• T.../E flush mounting switches (with front plate FS908) into T.../EA/SVB... flush mounting main switches</li> <li>• T.../Z rear mounting switches (with front plate FS908) into T.../V/SVB interlocked rear mounting main switches</li> </ul>
<b>V/EA/SVB-T5</b> 045065			
<b>V/EA/SVB-SW-T0</b> 065011			
<b>V/EA/SVB-SW-T5</b> 045064			
<b>KNB-T0</b> 038909		1 off	
<b>KNB-RT-T0</b> 043655			When ordered separately: Use red handle to IEC/EN 60 204 for Emergency-Stop switches only, and order corresponding yellow front plate FS908GE-T0
<b>KNB-P3</b> 041282		1 off	
<b>KNB-RT-P3</b> 046028			When ordered separately: Use red handle to IEC/EN 60 204 for Emergency-Stop switches only, and order corresponding yellow front plate FS908GE-P3
<b>KNK-T0</b> 000650		1 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 60 204 Part 1, Clause 5.1.1.1)
<b>KNK-P3</b> 000649		1 off	

## T Rotary Switches, P Switch-Disconnectors

## Accessories

For use with	Type suffix Article no. When ordered with basic unit	Price See Price List	Std. pack
<b>Neutral poles</b> Early-make, late-break 			
Can be fitted to left and/or right of 3-pole P switch-disconnectors	P1-.../E, .../EA, .../EZ	-	
with P1-.../I2: optional N-P1Z or HI11-P1/P3Z can only be fitted to left	P1-.../Z, .../N, .../I2, .../ST, .../IVS	<b>+N-P1Z</b> 000416	1 off
	P3-.../E, .../EA...	-	
	P3-.../Z, .../N, .../IVS P3-63/E, .../Z, .../I4, .../ST P3-100/E, .../Z, .../I5, .../ST	<b>+N-P3Z</b> 009036	1 off
<b>Auxiliary contacts</b> 1 make contact, 1 break contact 			
Can be fitted to left and/or right of 3-pole P switch-disconnectors	P1-.../E, .../EA..., .../EZ P3-.../E, .../EA	<b>+HI11-P1/P3E</b> 064100	1 off
With P1-.../I2: HI11-P1/P3Z or N-P1Z can be fitted to left only	P1-.../Z, .../N, .../I2, .../ST, .../IVS P3-63/Z, .../N, .../I4, .../ST, .../IVS P3-100/Z, .../N, .../I5, .../ST, .../IVS	<b>+HI11-P1/P3Z</b> 064526	1 off
<b>Centre mounting accessories</b> For single-hole fitting Mounting diameter 22.3 mm 			
With front plate	T0-.../E, T3-.../E	<b>+EZ-T0</b> 001750	1 off
Without front plate For engraved front plates	T0-.../E, T3-.../E	<b>+EZ/OFS-T0</b> 001751	1 off
Mounting diameter 22.3 mm and 30.5 mm 	T0-.../E, T3-.../E, P1-.../E	<b>+EZ-P1</b> 026222	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> 045472	1 off

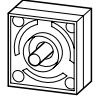

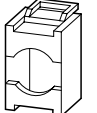

## T Rotary Switches, P Switch-Disconnectors

## Accessories

Type Article no. When ordered separately	Price See Price List	Std. pack
<b>N-P1E</b> 000651		5 off
<b>N-P1Z</b> 000652		
<b>N-P3E</b> 062432		
<b>N-P3Z</b> 064805		
The neutral contact is always early-make and late-break. Switching capacity of N-P1... equivalent to P1-32... contacts		
The neutral contact is always early-make and late-break. Switching capacity of N-P3... equivalent to P3-100... contacts		
<b>HI11-P1/P3E</b> 061813		5 off
<b>HI11-P1/P3Z</b> 062031		5 off
The make contact is always connected as a load-shedding contact, i.e. late-make, early-break.		
<b>EZ-T0</b> 081622		1 off
<b>EZ/OFS-T0</b> 001869		1 off
<b>EZ-P1</b> 091455		5 off
Rapid snap-fitting in panel sides, plates and doors. Legend plates from the RMQ range of control circuit devices can be used.		
Screw fixing enables one person to fit the equipment into panel sides, plates and doors. Legend plates from the RMQ range of control circuit devices can be used.		
<b>IVS-T0</b> 091114		1 off
Use the front plate of the basic switch		

## T Rotary Switches, P Switch-Disconnectors

### Accessories

For use with	Type suffix Article no.	Price See Price List	Std. pack
<b>Coupling drive</b>			
Includes push-fit shaft			
			
For retrofitting T0(T3)-.../Z basic switches in the rear mounting form Spare parts for T0(T3)/(P1)-.../Z	-		
For conversion of T5 (B)-.../E flush mounting switch into a rear mounting switch Spare parts for T5(B)/(P3)-.../Z	-		
<b>Interlock sections</b>			
			
With PE and N conductor connection	T0-.../E, .../EZ T3-.../E, .../EZ P1-.../E, .../EZ	+UV-T0 038519	1 off
	T5(B)-.../E P3-.../E	+UV-P3 030402	1 off
For cover or door interlock With PE and N conductor connection	T0-.../Z T3-.../Z P1-.../Z	+UV-T0 038519	1 off
	T5(B)-.../Z P3-.../Z	+UV-P3 030402	1 off
<b>Interlock extensions<sup>1)</sup></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)	UV-T0	+ZVV-T0 024662	1 off
	UV-P3	+ZVV-P3 024379	1 off
			
<b>Shaft extensions</b>			
Up to four off, 25 mm each, can be plugged onto switch shaft	T0-.../Z T3-.../Z P1-.../Z	+ZAV-T0 023736	1 off
	T5(B)-.../Z P3-.../Z	+ZAV-P3 026623	1 off
			

**Notes**

<sup>1)</sup> Use ZVV-T0 only with T0/T3-.../Z and P1-.../Z  
Use ZVV-P3 only with T5(B)-.../Z and P3-.../Z

## T Rotary Switches, P Switch-Disconnectors

### Accessories

Type Article no.	Price See Price List	Std. pack
When ordered separately		
DE-T0 093487		1 off
DE-P3 093972		3 off
UV-T0 019925		1 off
UV-P3 048289		1 off
UV-T0 019925		1 off
UV-P3 048289		1 off
ZVV-T0 022298		10 off
ZVV-P3 024671		10 off
ZAV-T0 027044		10 off
ZAV-P3 029417		10 off

Fits on the reverse of flush mounting switches

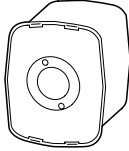
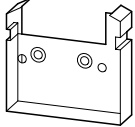
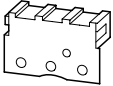
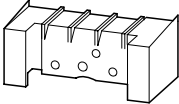
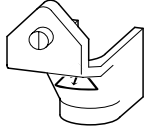
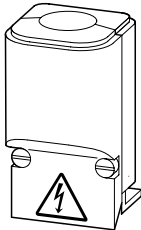
With interlocking function for rear mounting switches

Notes relating to installation in enclosures  
→ Page 07/089

Notes relating to installation in enclosures  
→ Page 07/089



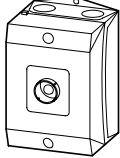
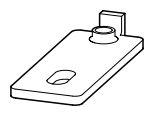
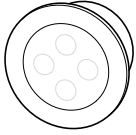
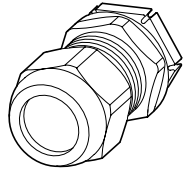
## T Rotary Switches, P Switch-Disconnectors Accessories

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
<b>Sleeves/covers</b> For flush-mounting switches with up to 4 contact units 	T0-.../E T3-.../E P1-.../E	-	
 Cover for protection of terminals For up to 2 contact units	T5(B)-.../E, .../Z	-	
Extension of H1-T5 cover To protect 3 to 8 contact units	H1-T5	-	
To cover terminals on 3-pole switch-disconnectors 	P1-.../E, .../EZ, .../Z, .../EA, .../V P1-...N, ...HI11, ...N...HI11	-	
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	-	
Cover assembly to protect the 6 terminals 	T6-160-6/...	-	
Cover assembly to protect the 6 terminals 	T8-3-8342/...	-	

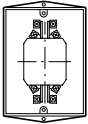

## T Rotary Switches, P Switch-Disconnectors Accessories

Type Article no. When ordered separately	Price See Price List	Std. pack	
<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>
<b>H1-T5</b> 045062		1 off	Can be used for input and/or output wiring
<b>HZ-T5</b> 045063		10 off	1 × HZ-T5 required per contact unit
<b>H-P1</b> 017253		5 off	Can be used for input and/or output wiring
<b>H-P14</b> 019626		5 off	
<b>H-P3</b> 021999		5 off	The shroud is designed for fitting onto both sides of the switch-disconnector. Parts which are not required can be broken off.
<b>H-T6-160</b> 200183		1 off	
<b>H-T8</b> 200184		1 off	

## T Rotary Switches, P Switch-Disconnectors Accessories

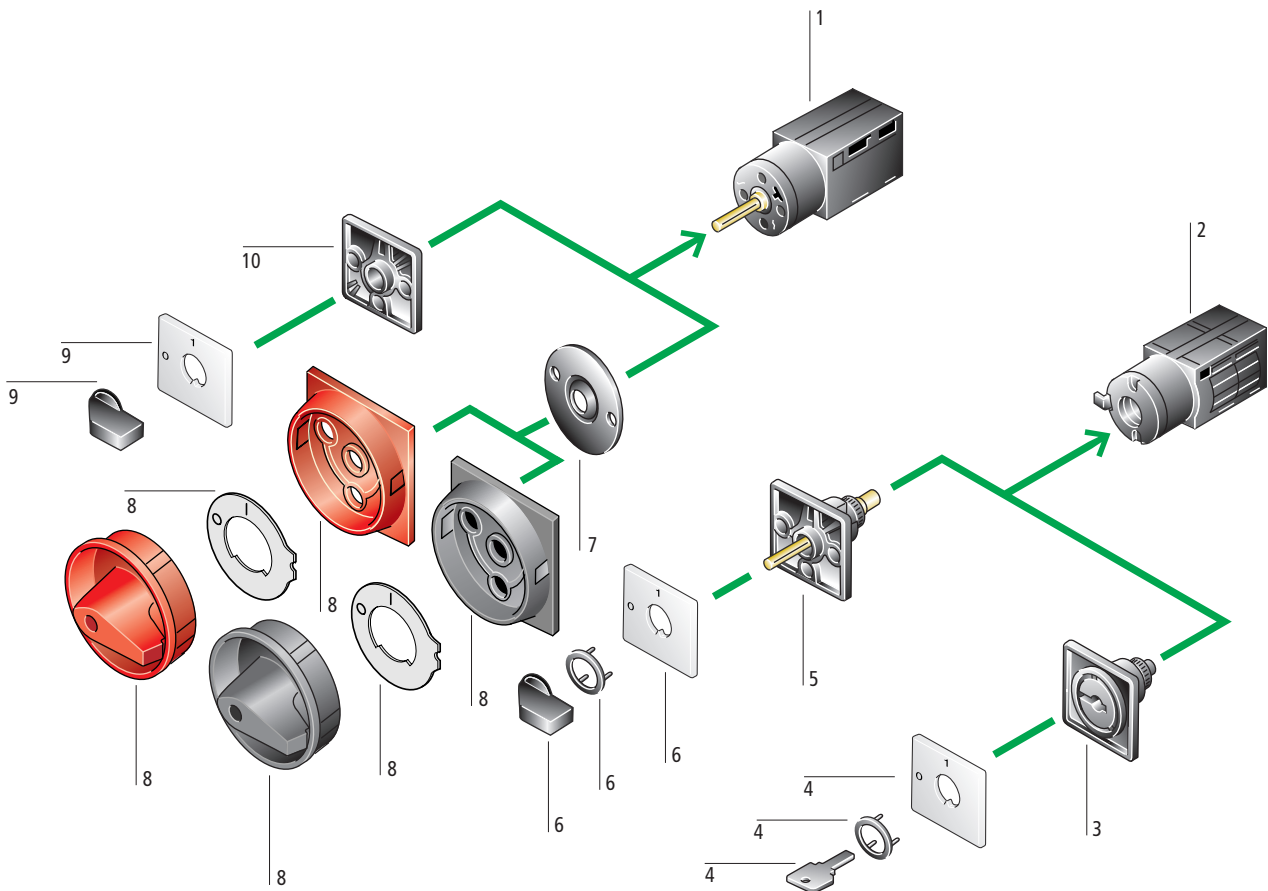
For use with		Type Article no.	Price See Price List	Std. pack																			
<b>Insulated enclosures, IP65</b> <small>totally insulated</small>																							
Enclosures designed for metric cable glands to EN 50 262																							
																							
1 – 2 contact units	T0-.../XZ	<b>CI-K1-T0-2</b> 207435		1 off	Cable sizes which may be pushed through the diaphragm  <table border="1"> <thead> <tr> <th>Type</th> <th colspan="2">Main-/control current</th> </tr> </thead> <tbody> <tr> <td>CI-K1-T0-...</td> <td>12 mm</td> <td>–</td> </tr> <tr> <td>CI-K2-T3-...</td> <td>16 mm</td> <td>8 mm</td> </tr> </tbody> </table>	Type	Main-/control current		CI-K1-T0-...	12 mm	–	CI-K2-T3-...	16 mm	8 mm									
Type	Main-/control current																						
CI-K1-T0-...	12 mm	–																					
CI-K2-T3-...	16 mm	8 mm																					
3 – 4 contact units	T0-.../XZ	<b>CI-K1-T0-4</b> 207436																					
1 – 2 contact units	T3-.../XZ	<b>CI-K2-T3-2</b> 207437																					
3 – 4 contact units	T3-.../XZ	<b>CI-K2-T3-4</b> 225325																					
5 contact units	T3-.../Z	<b>CI-K2-T3-5</b> 207438																					
1 – 2 contact units	T5B-.../E	<b>CI-K4-T5B-2</b> 207439																					
3 – 4 contact units	T5B-.../Z	<b>CI-K4-T5B-4</b> 207440																					
1 – 2 contact units	T5-.../Z	<b>CI-K5-T5-2</b> 207441																					
3 – 4 contact units	T5-.../Z	<b>CI-K5-T5-4</b> 207442			Converts T5-.../Z into T5-.../I5 and T5B-.../E into T5B.../I4: Order AW-T5-... extension terminals in addition → Page 07/071																		
<b>Neutral terminals</b>																							
For connection of 5th conductor	T0-.../I1, CI-K1-T0-...	<b>K-CI-K1/2</b> 207451		20 off																			
	T3-.../I2, CI-K2-T3-...																						
	P1-.../I2																						
	T5B-.../I4, CI-K4-T5B-...	<b>K-CI-K4</b> 206916		20 off																			
	P3-.../I4																						
	T5-.../I5, CI-K5-T5-...	<b>K-CI-K5</b> 218488		1 off																			
	P3-.../I5																						
<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>Metric diaphragm grommets</b>																							
<ul style="list-style-type: none"> <li>• IP65</li> <li>• With integral push-through diaphragm</li> </ul>																							
	H03VV-F 3 × 0.75 mm <sup>2</sup> , NYM 5 × 1.5/5 × 2.5 mm <sup>2</sup>	<b>KT-M20</b> 207602		100 off	<table border="1"> <thead> <tr> <th>External cable diameter mm</th> <th>Cable entry</th> <th>Hole diameter mm</th> </tr> </thead> <tbody> <tr> <td>1 – 13</td> <td>M20</td> <td>20.5</td> </tr> <tr> <td>1 – 18</td> <td>M25</td> <td>25.5</td> </tr> <tr> <td>1 – 24</td> <td>M32</td> <td>32.5</td> </tr> </tbody> </table>	External cable diameter mm	Cable entry	Hole diameter mm	1 – 13	M20	20.5	1 – 18	M25	25.5	1 – 24	M32	32.5						
External cable diameter mm	Cable entry	Hole diameter mm																					
1 – 13	M20	20.5																					
1 – 18	M25	25.5																					
1 – 24	M32	32.5																					
	H03VV-F 3 × 0.75 mm <sup>2</sup> , NYM 4 × 10 mm <sup>2</sup>	<b>KT-M25</b> 207603																					
	H03VV-F 3 × 0.75 mm <sup>2</sup> , NYM 4 × 16/5 × 10 mm <sup>2</sup>	<b>KT-M32</b> 207604																					
																							
<b>Metric cable glands to EN 50 262</b>																							
<ul style="list-style-type: none"> <li>• With lock nut and integral cable clamp</li> <li>• IP68 up to 5 bar, halogen free</li> </ul>																							
	H05VV-F 4 × 2.5/3 × 4 mm <sup>2</sup> , NYM 5 × 1.5/5 × 2,5 mm <sup>2</sup>	<b>V-M20</b> 206910		20 off	<table border="1"> <thead> <tr> <th>External cable diameter mm</th> <th>Cable entry</th> <th>Hole diameter mm</th> </tr> </thead> <tbody> <tr> <td>6 – 13</td> <td>M20</td> <td>20.5</td> </tr> <tr> <td>9 – 17</td> <td>M25</td> <td>25.5</td> </tr> <tr> <td>13 – 21</td> <td>M32</td> <td>32.5</td> </tr> <tr> <td>18 – 25</td> <td>M32</td> <td>32.5</td> </tr> <tr> <td>18 – 35</td> <td>M50</td> <td>50.5</td> </tr> </tbody> </table>	External cable diameter mm	Cable entry	Hole diameter mm	6 – 13	M20	20.5	9 – 17	M25	25.5	13 – 21	M32	32.5	18 – 25	M32	32.5	18 – 35	M50	50.5
External cable diameter mm	Cable entry	Hole diameter mm																					
6 – 13	M20	20.5																					
9 – 17	M25	25.5																					
13 – 21	M32	32.5																					
18 – 25	M32	32.5																					
18 – 35	M50	50.5																					
	H05VV-F 5 × 2.5/5 × 4 mm <sup>2</sup> , NYM 5 × 2.5/5 × 6 mm <sup>2</sup>	<b>V-M25</b> 206911		20 off																			
	NYM 5 × 10 mm <sup>2</sup>	<b>V-M32</b> 206912		10 off																			
	NYM 5 × 16 mm <sup>2</sup>	<b>V-M32G</b> 226156		10 off																			
	NYM 4 × 35/5 × 25 mm <sup>2</sup>	<b>V-M50</b> 206913		5 off																			
																							

**T Rotary Switches, P Switch-Disconnectors**  
Accessories

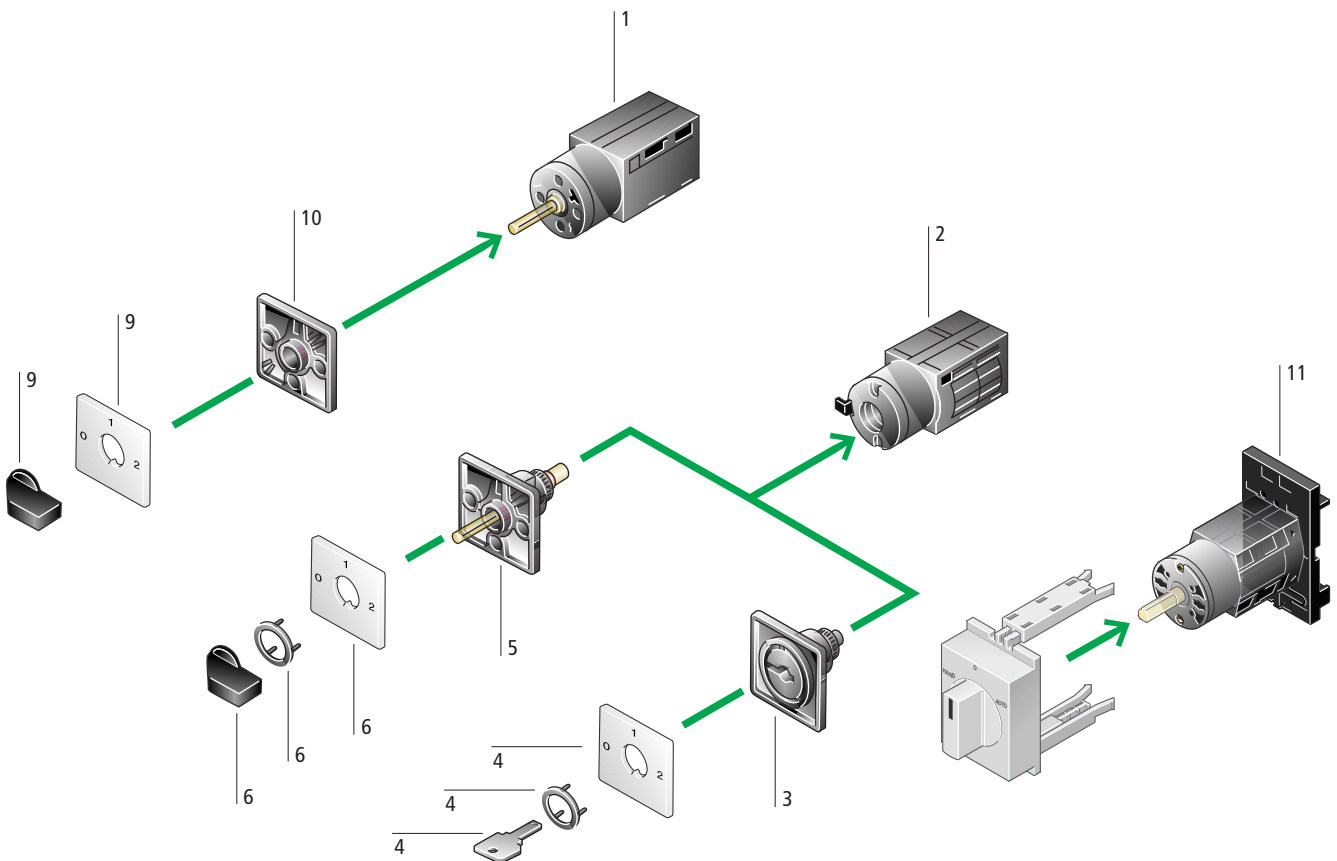
For use with	Type Article no.	Price See Price List	Std. pack	
<b>Set of extension terminals</b> For cable connection in the enclosure 				
For the lowest contact unit	T5B-.../I4 T5-.../I5	<b>AW-T5-1/2</b> 032601	1 off	Included with T5B-.../I4 and T5-.../I5 as standard Fit T5(B) with extension terminals to install it as T5(B)-.../E in an insulated enclosure.
For the second contact unit from the bottom	T5-.../I5	<b>AW-T5-3/4</b> 032602	1 off	
<b>Indicator lights, conical, BA9s</b> For fitting in M20/M25 pre-mouldings in the enclosure base For filament bulbs and neon bulbs up to 2.4 W → Page 02/040 				
Colour: red	P1-.../I2, P3-.../I..., T...-.../I...	<b>L-R</b> 208689	5 off	
Colour: white		<b>L-W</b> 208692		
Colour: green		<b>L-G</b> 208690		
Colour: yellow		<b>L-Y</b> 208691		
<b>Set of adapter rings</b> To allow PG cable glands to be used in metric cable entries				
		<b>M25-PG16</b> 218923	1 set	1 set = 50 off
		<b>M32-PG21</b> 218924		1 set = 25 off
		<b>M40-PG29</b> 218925		1 set = 10 off
		<b>M50-PG36</b> 218926		1 set = 10 off

# TM Mini Rotary Switches System Overview

## TM On-Off switches



## TM control switches



# TM Mini Rotary Switches

## System Overview

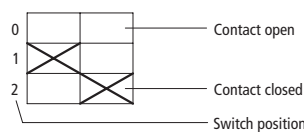
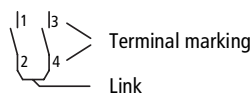
<p><b>Flush mounting (.../E)</b> 1</p> <p>Front IP65</p> <p>Fitting from rear in panel sides, plates or doors</p> <p>Terminal: Pozidriv screw</p> <p>Finger-proof</p> <p>→ Page 07/074</p>	<p><b>Centre mounting (.../EZ)</b> 2</p> <p>Front IP65</p> <p>Mounting in a standard 16.2 mm aperture, or in 22.3 mm to IEC/EN 60 947-5-1 following removal of supplied adapter</p> <p>M22-ST... legend plate mounts from the RMQ control circuit range can be used for marking (see Page 02/027)</p> <p>→ Page 07/074</p>	<p><b>Centre mounting switches, standard</b> 5, 6</p> <p>Black thumb-grip and silver-coloured front plate</p> <p>→ Page 07/074</p>
<p><b>Flush mounting control circuit isolators (.../E/SVB)</b> 1</p> <p>Front IP65</p> <p>To IEC/EN 60 947-5</p> <p>Lockable in 0 (Off) position using two padlocks, 4 mm Ø or 1 padlock, 6 mm Ø</p> <p>Can be used at up to 250 V AC per contact</p> <p>Up to 6 contacts admissible</p> <p>→ Page 07/074</p>	<p><b>Key operation for centre mounting</b> 3, 4</p> <p>2 keys are supplied</p> <p>Option for key withdrawal at 90° with KABA micro cylinder lock</p> <p>Option for key withdrawal at 60° with RONIS cylinder lock</p> <p>Always state the position in which the key is to be withdrawable</p> <p>→ Page 07/083</p>	<p><b>Control circuit isolators</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 (Off) position</p> <p>→ Page 07/074</p>
		<p><b>Flush mounting switches, standard</b> 9, 10</p> <p>Black thumb-grip and silver-coloured front plate</p> <p>→ Page 07/074</p>
		<p><b>Standard switches for distribution board mounting (.../IVS)</b> 11</p> <p>Mounting in service distribution boards</p> <p>Mounting width: 2 space units (45 mm mounting depth)</p> <p>Up to 2 contact units</p> <p>→ Page 07/074</p>

### Product attributes

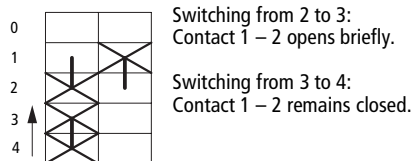
#### Contact chamber

- Rated uninterrupted current 10 A
- Gold-plated contacts for safe switching of extra low voltages and currents even in corrosive atmospheres
- Positively opening contacts
- 1 – 2 contacts per contact chamber, up to 16 contacts per switch
- Switching of differing potentials
- Control circuit reliability

#### Circuit diagrams (examples)

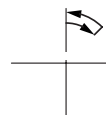
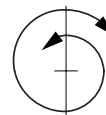


Switching from 1 to 2:  
Contact 1 – 2 early-make,  
Contact 3 – 4 late-break.



#### Switch position

- Reliable switching due to indexing mechanism
- Switching angles 30°, 45°, 60°, 90°
- Automatic return with up to 6 contacts
- Complete rotation
- Switching angle of 360° allows complete rotation in both directions



## TM Mini Rotary Switches

### Control Circuit Isolators, On-Off Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65		Service distribution board mounting Front IP30	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Control circuit isolators, 90°</b>								
With padlocking facility, lockable in the Off position Up to 250 V AC per contact								
		1	<b>TM-1-8290/E/SVB</b> 045477		–		–	
			<b>TM-1-8290/E/SVB-SW</b> 215351		–		–	
		2	<b>TM-1-8291/E/SVB</b> 045478		–		–	
			<b>TM-1-8291/E/SVB-SW</b> 215352		–		–	
		3	<b>TM-2-8292/E/SVB</b> 045484		–		–	
			<b>TM-2-8292/E/SVB-SW</b> 210955		–		–	
		3+N	<b>TM-2-8293/E/SVB</b> 045485		–		–	
			<b>TM-2-8293/E/SVB-SW</b> 215353		–		–	
		6	<b>TM-3-8326/E/SVB</b> 045498		–		–	
			<b>TM-3-8326/E/SVB-SW</b> 215354		–		–	
<b>On-Off switches, 90°</b>								
		1	<b>TM-1-8290/E</b> 070131		<b>TM-1-8290/EZ</b> 000693		<b>TM-1-8290/IVS</b> 225334	
		2	<b>TM-1-8291/E</b> 072504		<b>TM-1-8291/EZ</b> 015073		<b>TM-1-8291/IVS</b> 225335	
		3	<b>TM-2-8292/E</b> 074877		<b>TM-2-8292/EZ</b> 015096		<b>TM-2-8292/IVS</b> 225336	
		3+N	<b>TM-2-8293/E</b> 077250		<b>TM-2-8293/EZ</b> 045486		<b>TM-2-8293/IVS</b> 225337	
		6	<b>TM-3-8326/E</b> 079623		<b>TM-3-8326/EZ</b> 045499		–	

Standard pack: 1 off

**TM Mini Rotary Switches**  
Control Switches: Changeover Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65		Service distribution board mounting Front IP30	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Changeover switches without 0 (Off) position, 60°</b>								
		1	<b>TM-1-8220/E</b> 081996		<b>TM-1-8220/EZ</b> 000692		<b>TM-1-8220/IVS</b> 225338	
		2	<b>TM-2-8221/E</b> 084369		<b>TM-2-8221/EZ</b> 015197		<b>TM-2-8221/IVS</b> 225339	
		3	<b>TM-3-8222/E</b> 086742		<b>TM-3-8222/EZ</b> 045493		-	
		4	<b>TM-4-8223/E</b> 089115		<b>TM-4-8223/EZ</b> 046119		-	
		5	<b>TM-5-8369/E</b> 091488		<b>TM-5-8369/EZ</b> 046126		-	
		6	<b>TM-6-8370/E</b> 093861		<b>TM-6-8370/EZ</b> 046130		-	
<b>Changeover switches with 0 (Off) position, 60°</b>								
		1	<b>TM-1-8210/E</b> 096234		<b>TM-1-8210/EZ</b> 015137		<b>TM-1-8210/IVS</b> 225340	
		2	<b>TM-2-8211/E</b> 098607		<b>TM-2-8211/EZ</b> 015166		<b>TM-2-8211/IVS</b> 225341	
		3	<b>TM-3-8212/E</b> 010807		<b>TM-3-8212/EZ</b> 045491		-	
		4	<b>TM-4-8213/E</b> 013180		<b>TM-4-8213/EZ</b> 045847		-	

Standard pack: 1 off

## TM Mini Rotary Switches

## Control Switches: Changeover Switches, Hand/Auto Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65		Service distribution board mounting Front IP30	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Changeover switches with 0 (Off) position, 90°</b>								
	 F 057	1		TM-1-8218/E 015553			TM-1-8218/EZ 045476	-
	 F 057	2		TM-2-8219/E 017926			TM-2-8219/EZ 045482	-
	 F 057	3		TM-3-8299/E 020299			TM-3-8299/EZ 045497	-
	 F 057	3+N		TM-4-8294/E 022672			TM-4-8294/EZ 046121	-
<b>Hand/Auto switches, 60°</b>								
	 F 288	1	-				TM-1-8220 F288/EZ 016925	-
	 F 085	1		TM-1-15431/E 025045			TM-1-15431/EZ 000691	TM-1-15431/IVS 225342
	 F 085	2		TM-2-15432/E 027418			TM-2-15432/EZ 016878	TM-2-15432/IVS 225343
	 F 085	3		TM-3-15433/E 029791			TM-3-15433/EZ 045490	-
<b>Changeover switches with spring-return from both directions, 30°</b>								
	 F 025	1		TM-1-8214/E 032164			TM-1-8214/EZ 016673	-
	 F 025	2		TM-2-8215/E 034537			TM-2-8215/EZ 045481	-
	 F 025	3		TM-3-8216/E 036910			TM-3-8216/EZ 045492	-

Standard pack: 1 off



**TM Mini Rotary Switches**  
Control Switches: Step Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65		Service distribution board mounting Front IP30	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Step switches without 0 (Off) position, 60°</b>								
<b>3 steps</b>								
		1	<b>TM-2-8230/E</b> 039283		<b>TM-2-8230/EZ</b> 000701		<b>TM-2-8230/IVS</b> 225344	
		3	<b>TM-5-8270/E</b> 041656		<b>TM-5-8270/EZ</b> 046124			
<b>4 steps</b>								
		1	<b>TM-2-8231/E</b> 044029		<b>TM-2-8231/EZ</b> 000700		<b>TM-2-8231/IVS</b> 225345	
		3	<b>TM-6-8271/E</b> 046402		<b>TM-6-8271/EZ</b> 046128			

Standard pack: 1 off

## TM Mini Rotary Switches

### Control Switches: Step Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Step switches without 0 (Off) position</b>						
<b>5 steps, 60°</b>						
		1	<b>TM-3-8232/E</b> 039298		<b>TM-3-8232/EZ</b> 015592	
		2	<b>TM-5-8252/E</b> 041671		<b>TM-5-8252/EZ</b> 046123	
<b>6 steps, 60°</b>						
<b>Without complete rotation</b>						
		1	<b>TM-3-8233/E</b> 053521		<b>TM-3-8233/EZ</b> 015630	
		2	<b>TM-6-8253/E</b> 055894		<b>TM-6-8253/EZ</b> 046127	
<b>10 steps, 30°</b>						
		1	<b>TM-5-8237/E</b> 069150		<b>TM-5-8237/EZ</b> 015661	

Standard pack: 1 off

**TM Mini Rotary Switches**  
Control Switches: Step Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Step switches with additional 0 (Off) position</b>						
<b>2 steps, 60°</b>						
	F 075	1	TM-1-8240/E 058267		TM-1-8240/EZ 015226	
	F 075	2	TM-2-8260/E 060640		TM-2-8260/EZ 045483	
	F 075	3	TM-3-8280/E 063013		TM-3-8280/EZ 045496	
<b>3 steps, 45°</b>						
	F 109	1	TM-2-8241/E 065386		TM-2-8241/EZ 015256	
	F 109	2	TM-3-8261/E 067759		TM-3-8261/EZ 000698	
	F 109	3	TM-5-8281/E 070132		TM-5-8281/EZ 046125	
<b>4 steps, 30°</b>						
	F 002	1	TM-2-8242/E 072505		TM-2-8242/EZ 015506	
	F 002	2	TM-4-8262/E 074878		TM-4-8262/EZ 046120	
	F 002	3	TM-6-8282/E 077251		TM-6-8282/EZ 046129	

Standard pack: 1 off

## TM Mini Rotary Switches

### Control Switches: Step Switches, Group Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>Step switches with additional 0 (Off) position, 30°</b>						
<b>5 steps</b>						
	 F 003	1	<b>TM-3-8243/E</b> 079624		<b>TM-3-8243/EZ</b> 015537	
<b>6 steps</b>						
	 F 004	1	<b>TM-3-8244/E</b> 081997		<b>TM-3-8244/EZ</b> 045495	
<b>9 steps</b>						
	 F 007	1	<b>TM-5-8247/E</b> 009741		<b>TM-5-8247/EZ</b> 015565	
<b>Group switches</b>						
<b>2 groups, 60°</b>						
	 F 075	1	<b>TM-1-8310/E</b> 084370		<b>TM-1-8310/EZ</b> 045479	
<b>3 groups, 30°</b>						
	 F 001	1	<b>TM-2-8311/E</b> 086743		<b>TM-2-8311/EZ</b> 045487	

Standard pack: 1 off

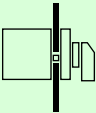
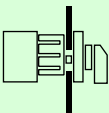
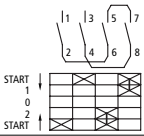

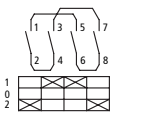

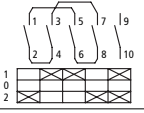

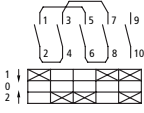

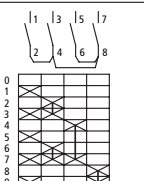

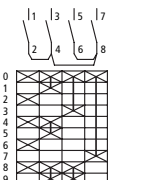

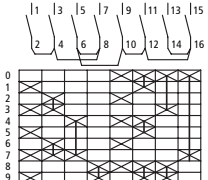

### TM Mini Rotary Switches

#### Control Switches: On/Off Switches, Spring-Return

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65		Centre mounting Front IP65	
			Type Article no.	Price See Price List	Type Article no.	Price See Price List
<b>On/Off switches with spring-return, 30°</b>						
<b>Off switches, spring-return</b>						
		1	<b>TM-1-8174/E</b> 089116		<b>TM-1-8174/EZ</b> 016646	
<b>On switches, spring-return</b>						
		1	<b>TM-1-8175/E</b> 091489		<b>TM-1-8175/EZ</b> 015690	
<b>On-Off switches, spring-return</b>						
		1	<b>TM-1-8176/E</b> 093862		<b>TM-1-8176/EZ</b> 016714	
		2	<b>TM-2-8183/E</b> 096235		<b>TM-2-8183/EZ</b> 045480	
<b>On-Off spring-return switches, 90°/30°</b> With spring-return from START to 1						
		1	<b>TM-1-8178/E</b> 098608		<b>TM-1-8178/EZ</b> 016786	

Standard pack: 1 off

**TM Mini Rotary Switches**  
Control Switches: Reversing Switches, Coding Switches

Circuit diagram	Front plate no.	No. of poles	Flush mounting Front IP65	Centre mounting Front IP65
				
			Type Article no.	Type Article no.
			Price See Price List	Price See Price List
<b>Reversing switches</b>				
<b>With spring-return from Start to 1 or 2, 60°/30°</b>				
	 F 121	1	TM-2-8177/E 010808	TM-2-8177/EZ 016838
<b>Reversing switches, 60°</b>				
	 F 071	2	TM-2-8400/E 013181	TM-2-8400/EZ 045488
	 F 071	3	TM-3-8401/E 015554	TM-3-8401/EZ 045500
<b>Reversing switches with spring-return to 0, 30°</b>				
	 F 025	3	TM-3-8228/E 017927	TM-3-8228/EZ 045494
<b>Coding switches, BCD Code 0 – 9, 30°</b>				
	 F 007	1	TM-2-8550/E 020300	TM-2-8550/EZ 000699
<b>Complementary BCD code 0 – 9, 30°</b>				
	 F 007	1	TM-2-8551/E 022673	TM-2-8551/EZ 045489
<b>BCD code 0 – 9 + complement, 30°</b>				
	 F 007	1	TM-4-8552/E 025046	TM-4-8552/EZ 046122

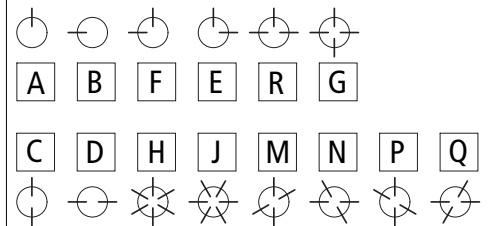
Standard pack: 1 off

**TM Mini Rotary Switches**  
Accessories

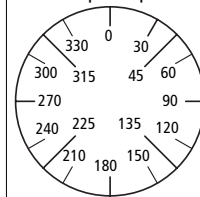
	Type	Price
	Article no.	See Price List
<b>Key operation<sup>1)</sup></b>		
Includes two keys		
<b>KABA lock for 90° switching angle<sup>1)</sup></b>		
Degree of protection IP65		
Key withdrawable at:		
0°	+EZ/S-A 045458	
270°	+EZ/S-B 045459	
270 + 0°	+EZ/S-F 045463	
0 + 90°	+EZ/S-E 045462	
270 + 0 + 90°	+EZ/S-R 045471	
270 + 0 + 90 + 180°	+EZ/S-G 045464	
<b>RONIS lock for 60° switching angle<sup>1)</sup></b>		
Degree of protection IP55		
Key withdrawable at:		
0 + 180°	+EZ/S-C 045460	
270 + 90°	+EZ/S-D 045461	
300 + 0 + 60 + 120 + 180 + 240°	+EZ/S-H 045465	
270 + 330 + 30 + 90 + 150 + 210°	+EZ/S-J 045466	
0 + 60 + 180 + 240°	+EZ/S-M 045467	
270 + 330 + 90 + 150°	+EZ/S-N 045468	
300 + 0 + 120 + 180°	+EZ/S-P 045469	
270 + 30 + 90 + 210°	+EZ/S-Q 045470	

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°.  
The key is not withdrawable in positions which exceed the total switching angle of the switch.

Options for key withdrawal



For example of position marking see → Page 07/111



Standard pack: 1 off

<sup>1)</sup> For mounting forms E and EZ

## T Rotary Switches

### T0 Non-Standard Switches

	Type	Price See Price List	Type	Price See Price List	Price See Price List	Std. pack
T0 rotary switches	T0-1-SOND.../E		T0-5-SOND.../E			1 off
	T0-1-SOND.../EA/SVB		T0-5-SOND.../EZ			
	T0-1-SOND.../EA/SVB-SW		T0-5-SOND.../EZ/OFS			
	T0-1-SOND.../EZ		T0-5-SOND.../IVS			
	T0-1-SOND.../EZ/OFS		T0-5-SOND.../XZ			
	T0-1-SOND.../I1		T0-5-SOND.../Z			
	T0-1-SOND.../I1/SVB					
	T0-1-SOND.../I1/SVB-SW		T0-6-SOND.../E			
	T0-1-SOND.../IVS		T0-6-SOND.../EZ			
	T0-1-SOND.../IV/SVB		T0-6-SOND.../EZ/OFS			
	T0-1-SOND.../IV/SVB-SW		T0-6-SOND.../IVS			
	T0-1-SOND.../XZ		T0-6-SOND.../XZ			
	T0-1-SOND.../Z		T0-6-SOND.../Z			
	T0-2-SOND.../E		T0-7-SOND.../E			
	T0-2-SOND.../EA/SVB		T0-7-SOND.../EZ			
	T0-2-SOND.../EA/SVB-SW		T0-7-SOND.../EZ/OFS			
	T0-2-SOND.../EZ		T0-7-SOND.../IVS			
	T0-2-SOND.../EZ/OFS		T0-7-SOND.../XZ			
	T0-2-SOND.../I1		T0-7-SOND.../Z			
	T0-2-SOND.../I1/SVB					
	T0-2-SOND.../I1/SVB-SW		T0-8-SOND.../E			
	T0-2-SOND.../IVS		T0-8-SOND.../EZ			
	T0-2-SOND.../IV/SVB		T0-8-SOND.../EZ/OFS			
	T0-2-SOND.../IV/SVB-SW		T0-8-SOND.../IVS			
	T0-2-SOND.../XZ		T0-8-SOND.../XZ			
	T0-2-SOND.../Z		T0-8-SOND.../Z			
	T0-3-SOND.../E		T0-9-SOND.../E			
	T0-3-SOND.../EA/SVB		T0-9-SOND.../EZ			
	T0-3-SOND.../EA/SVB-SW		T0-9-SOND.../EZ/OFS			
	T0-3-SOND.../EZ		T0-9-SOND.../IVS			
	T0-3-SOND.../EZ/OFS		T0-9-SOND.../XZ			
	T0-3-SOND.../I1		T0-9-SOND.../Z			
	T0-3-SOND.../I1/SVB					
	T0-3-SOND.../I1/SVB-SW		T0-10-SOND.../E			
	T0-3-SOND.../IVS		T0-10-SOND.../EZ			
	T0-3-SOND.../IV/SVB		T0-10-SOND.../EZ/OFS			
	T0-3-SOND.../IV/SVB-SW		T0-10-SOND.../IVS			
	T0-3-SOND.../XZ		T0-10-SOND.../XZ			
	T0-3-SOND.../Z		T0-10-SOND.../Z			
	T0-4-SOND.../E		T0-11-SOND.../E			
	T0-4-SOND.../EA/SVB		T0-11-SOND.../EZ			
	T0-4-SOND.../EA/SVB-SW		T0-11-SOND.../EZ/OFS			
	T0-4-SOND.../EZ		T0-11-SOND.../IVS			
	T0-4-SOND.../EZ/OFS		T0-11-SOND.../XZ			
	T0-4-SOND.../I1		T0-11-SOND.../Z			
	T0-4-SOND.../I1/SVB					
	T0-4-SOND.../I1/SVB-SW					
	T0-4-SOND.../IVS					
	T0-4-SOND.../IV/SVB					
	T0-4-SOND.../IV/SVB-SW					
	T0-4-SOND.../XZ					
	T0-4-SOND.../Z					

#### Notes

These Pages show T rotary switches with non-standard contact sequences (-SOND...) which are priced accordingly (See Price List). Use the Initial Order form on → Page 07/112 for ordering any T rotary switch combination.

For subsequent orders, state contact sequence number together with country identifier (eg 4711GB)

The contact numbers for non-standard contact sequences are: >200 <8000 or >9000 <15000 or >16000.



**T Rotary Switches**  
T3 Non-Standard Switches

	Type	Price See Price List	Type	Price See Price List	Std. pack	
T3 rotary switches	T3-1-SOND.../E		T3-5-SOND.../E		1 off	
	T3-1-SOND.../EA/SVB		T3-5-SOND.../EA/SVB			
	T3-1-SOND.../EA/SVB-SW		T3-5-SOND.../EA/SVB-SW			
	T3-1-SOND.../EZ		T3-5-SOND.../EZ			
	T3-1-SOND.../EZ/OFS		T3-5-SOND.../EZ/OFS			
	T3-1-SOND.../I2		T3-5-SOND.../I2			
	T3-1-SOND.../I2/SVB		T3-5-SOND.../I2/SVB			
	T3-1-SOND.../I2/SVB-SW		T3-5-SOND.../I2/SVB-SW			
	T3-1-SOND.../V/SVB		T3-5-SOND.../V/SVB			
	T3-1-SOND.../V/SVB-SW		T3-5-SOND.../V/SVB-SW			
	T3-1-SOND.../XZ		T3-5-SOND.../XZ			
	T3-1-SOND.../Z		T3-5-SOND.../Z			
		T3-2-SOND.../E		T3-6-SOND.../E		
		T3-2-SOND.../EA/SVB		T3-6-SOND.../EA/SVB		
		T3-2-SOND.../EA/SVB-SW		T3-6-SOND.../EA/SVB-SW		
		T3-2-SOND.../EZ		T3-6-SOND.../EZ		
		T3-2-SOND.../EZ/OFS		T3-6-SOND.../EZ/OFS		
		T3-2-SOND.../I2		T3-6-SOND.../V/SVB		
		T3-2-SOND.../I2/SVB		T3-6-SOND.../V/SVB-SW		
		T3-2-SOND.../I2/SVB-SW		T3-6-SOND.../XZ		
		T3-2-SOND.../V/SVB		T3-6-SOND.../Z		
		T3-2-SOND.../V/SVB-SW				
		T3-2-SOND.../XZ		T3-7-SOND.../E		
		T3-2-SOND.../Z		T3-7-SOND.../EZ		
				T3-7-SOND.../EZ/OFS		
		T3-3-SOND.../E		T3-7-SOND.../XZ		
		T3-3-SOND.../EA/SVB		T3-7-SOND.../Z		
		T3-3-SOND.../EA/SVB-SW				
		T3-3-SOND.../EZ		T3-8-SOND.../E		
		T3-3-SOND.../EZ/OFS		T3-8-SOND.../EZ		
		T3-3-SOND.../I2		T3-8-SOND.../EZ/OFS		
		T3-3-SOND.../I2/SVB		T3-8-SOND.../XZ		
		T3-3-SOND.../I2/SVB-SW		T3-8-SOND.../Z		
		T3-3-SOND.../V/SVB				
		T3-3-SOND.../V/SVB-SW		T3-9-SOND.../E		
		T3-3-SOND.../XZ		T3-9-SOND.../EZ		
		T3-3-SOND.../Z		T3-9-SOND.../EZ/OFS		
				T3-9-SOND.../XZ		
		T3-4-SOND.../E		T3-9-SOND.../Z		
		T3-4-SOND.../EA/SVB				
		T3-4-SOND.../EA/SVB-SW		T3-10-SOND.../E		
		T3-4-SOND.../EZ		T3-10-SOND.../EZ		
		T3-4-SOND.../EZ/OFS		T3-10-SOND.../EZ/OFS		
		T3-4-SOND.../I2		T3-10-SOND.../XZ		
		T3-4-SOND.../I2/SVB		T3-10-SOND.../Z		
		T3-4-SOND.../I2/SVB-SW				
		T3-4-SOND.../V/SVB		T3-11-SOND.../E		
		T3-4-SOND.../V/SVB-SW		T3-11-SOND.../EZ		
		T3-4-SOND.../XZ		T3-11-SOND.../EZ/OFS		
		T3-4-SOND.../Z		T3-11-SOND.../XZ		
				T3-11-SOND.../Z		

## T Rotary Switches

### T5B Non-Standard Switches

	Type	Price See Price List	Type	Price See Price List	Std. pack
T5B rotary switches	T5B-1-SOND.../E		T5B-5-SOND.../E		1 off
	T5B-1-SOND.../EA/SVB		T5B-5-SOND.../EA/SVB		
	T5B-1-SOND.../EA/SVB-SW		T5B-5-SOND.../EA/SVB-SW		
	T5B-1-SOND.../I4		T5B-5-SOND.../I4/SVB		
	T5B-1-SOND.../I4/SVB		T5B-5-SOND.../I4/SVB-SW		
	T5B-1-SOND.../I4/SVB-SW		T5B-5-SOND.../X		
	T5B-1-SOND.../V/SVB		T5B-5-SOND.../Z		
	T5B-1-SOND.../V/SVB-SW				
	T5B-1-SOND.../X		T5B-6-SOND.../E		
	T5B-1-SOND.../Z		T5B-6-SOND.../EA/SVB		
			T5B-6-SOND.../EA/SVB-SW		
	T5B-2-SOND.../E		T5B-6-SOND.../I4/SVB		
	T5B-2-SOND.../EA/SVB		T5B-6-SOND.../I4/SVB-SW		
	T5B-2-SOND.../EA/SVB-SW		T5B-6-SOND.../X		
	T5B-2-SOND.../I4		T5B-6-SOND.../Z		
	T5B-2-SOND.../I4/SVB				
	T5B-2-SOND.../I4/SVB-SW		T5B-7-SOND.../E		
	T5B-2-SOND.../V/SVB		T5B-7-SOND.../EA/SVB		
	T5B-2-SOND.../V/SVB-SW		T5B-7-SOND.../EA/SVB-SW		
	T5B-2-SOND.../X		T5B-7-SOND.../I4/SVB		
	T5B-2-SOND.../Z		T5B-7-SOND.../I4/SVB-SW		
			T5B-7-SOND.../X		
	T5B-3-SOND.../E		T5B-7-SOND.../Z		
	T5B-3-SOND.../EA/SVB				
	T5B-3-SOND.../EA/SVB-SW		T5B-8-SOND.../E		
	T5B-3-SOND.../I4		T5B-8-SOND.../EA/SVB		
	T5B-3-SOND.../I4/SVB		T5B-8-SOND.../EA/SVB-SW		
	T5B-3-SOND.../I4/SVB-SW		T5B-8-SOND.../I4/SVB		
	T5B-3-SOND.../V/SVB		T5B-8-SOND.../I4/SVB-SW		
	T5B-3-SOND.../V/SVB-SW		T5B-8-SOND.../X		
	T5B-3-SOND.../X		T5B-8-SOND.../Z		
	T5B-3-SOND.../Z				
			T5B-9-SOND.../E		
	T5B-4-SOND.../E		T5B-9-SOND.../X		
	T5B-4-SOND.../EA/SVB		T5B-9-SOND.../Z		
	T5B-4-SOND.../EA/SVB-SW				
	T5B-4-SOND.../I4		T5B-10-SOND.../E		
	T5B-4-SOND.../I4/SVB		T5B-10-SOND.../X		
	T5B-4-SOND.../I4/SVB-SW		T5B-10-SOND.../Z		
	T5B-4-SOND.../V/SVB				
	T5B-4-SOND.../V/SVB-SW				
	T5B-4-SOND.../X				
	T5B-4-SOND.../Z				

#### Notes

These Pages show T rotary switches with non-standard contact sequences (-SOND...) which are priced accordingly (See Price List). Use the Initial Order form on → Page 07/112 for ordering any T rotary switch combination.

For subsequent orders, state contact sequence number together with country identifier (eg 4711GB)

The contact numbers for non-standard contact sequences are: >200 <8000 or >9000 <15000 or >16000.

**T Rotary Switches**  
T5 Non-Standard Switches

	Type	Price See Price List	Type	Price See Price List	Std. pack
T5 rotary switches	T5-1-SOND.../E		T5-5-SOND.../E		1 off
	T5-1-SOND.../EA/SVB		T5-5-SOND.../EA/SVB		
	T5-1-SOND.../EA/SVB-SW		T5-5-SOND.../EA/SVB-SW		
	T5-1-SOND.../I5		T5-5-SOND.../I5/SVB		
	T5-1-SOND.../I5/SVB		T5-5-SOND.../I5/SVB-SW		
	T5-1-SOND.../I5/SVB-SW		T5-5-SOND.../X		
	T5-1-SOND.../V/SVB		T5-5-SOND.../Z		
	T5-1-SOND.../V/SVB-SW				
	T5-1-SOND.../X		T5-6-SOND.../E		
	T5-1-SOND.../Z		T5-6-SOND.../EA/SVB		
			T5-6-SOND.../EA/SVB-SW		
	T5-2-SOND.../E		T5-6-SOND.../V/SVB		
	T5-2-SOND.../EA/SVB		T5-6-SOND.../V/SVB-SW		
	T5-2-SOND.../EA/SVB-SW		T5-6-SOND.../X		
	T5-2-SOND.../I5		T5-6-SOND.../Z		
	T5-2-SOND.../I5/SVB				
	T5-2-SOND.../I5/SVB-SW		T5-7-SOND.../E		
	T5-2-SOND.../V/SVB		T5-7-SOND.../EA/SVB		
	T5-2-SOND.../V/SVB-SW		T5-7-SOND.../EA/SVB-SW		
	T5-2-SOND.../X		T5-7-SOND.../V/SVB		
	T5-2-SOND.../Z		T5-7-SOND.../V/SVB-SW		
			T5-7-SOND.../X		
	T5-3-SOND.../E		T5-7-SOND.../Z		
	T5-3-SOND.../EA/SVB				
	T5-3-SOND.../EA/SVB-SW		T5-8-SOND.../E		
	T5-3-SOND.../I5		T5-8-SOND.../EA/SVB		
	T5-3-SOND.../I5/SVB		T5-8-SOND.../EA/SVB-SW		
	T5-1-SOND.../I5/SVB-SW		T5-8-SOND.../V/SVB		
	T5-3-SOND.../V/SVB		T5-8-SOND.../V/SVB-SW		
	T5-3-SOND.../V/SVB-SW		T5-8-SOND.../X		
	T5-3-SOND.../X		T5-8-SOND.../Z		
	T5-3-SOND.../Z				
			T5-9-SOND.../E		
	T5-4-SOND.../E		T5-9-SOND.../X		
	T5-4-SOND.../EA/SVB		T5-9-SOND.../Z		
	T5-4-SOND.../EA/SVB-SW				
	T5-4-SOND.../I5		T5-10-SOND.../E		
	T5-4-SOND.../I5/SVB		T5-10-SOND.../X		
	T5-4-SOND.../I5/SVB-SW		T5-10-SOND.../Z		
	T5-4-SOND.../V/SVB				
	T5-4-SOND.../V/SVB-SW				
	T5-4-SOND.../X				
	T5-4-SOND.../Z				

## T Rotary Switches

### TM Non-Standard Switches, Bulk Packaged Switches

	Type <sup>1)</sup>	Price See Price List	Type <sup>2)</sup>	Price See Price List	Std. pack
TM mini rotary switches	TM-1-SOND.../E		TM-1-SOND-ERSTBESTELLUNG/E		1 off
	TM-1-SOND.../EZ		TM-1-SOND-ERSTBESTELLUNG/EZ		
	TM-1-SOND.../IVS		TM-1-SOND-ERSTBESTELLUNG/IVS		
	TM-2-SOND.../E		TM-2-SOND-ERSTBESTELLUNG/E		
	TM-2-SOND.../EZ		TM-2-SOND-ERSTBESTELLUNG/EZ		
	TM-2-SOND.../IVS		TM-2-SOND-ERSTBESTELLUNG/IVS		
	TM-3-SOND.../E		TM-3-SOND-ERSTBESTELLUNG/E		
	TM-3-SOND.../EZ		TM-3-SOND-ERSTBESTELLUNG/EZ		
	TM-4-SOND.../E		TM-4-SOND-ERSTBESTELLUNG/E		
	TM-4-SOND.../EZ		TM-4-SOND-ERSTBESTELLUNG/EZ		
	TM-5-SOND.../E		TM-5-SOND-ERSTBESTELLUNG/E		
	TM-5-SOND.../EZ		TM-5-SOND-ERSTBESTELLUNG/EZ		
	TM-6-SOND.../E		TM-6-SOND-ERSTBESTELLUNG/E		
	TM-6-SOND.../EZ		TM-6-SOND-ERSTBESTELLUNG/EZ		
	TM-7-SOND.../E		TM-7-SOND-ERSTBESTELLUNG/E		
	TM-7-SOND.../EZ		TM-7-SOND-ERSTBESTELLUNG/EZ		
TM-8-SOND.../E		TM-8-SOND-ERSTBESTELLUNG/E			
TM-8-SOND.../EZ		TM-8-SOND-ERSTBESTELLUNG/EZ			

#### Notes

- 1) For subsequent orders, for which the design number is known. Form FO2 is **not** required for these.
- 2) For initial orders. Form FO2 has to be completed and submitted for these.

	Type Article no.	Price See Price List	Std. pack
Bulk packaged switches	T0-2-1/EA/SVB-GVP50 217168		50 off
	P1-25/EA/SVB-GVP50 217370		50 off
	P1-32/EA/SVB-GVP50 217169		50 off
	P3-63/EA/SVB-GVP25 218130		25 off
	P3-100/EA/SVB-GVP25 218132		25 off

## T Rotary Switches

### Fitting Rotary Switches with Coupling (T.../Z or T.../V/SVB) into Enclosures

#### Notes

CI-K... insulated enclosures are enclosures specifically designed for the installation of rotary switches, such as T0, T5B and T5 with up to 4 contact units = 8 contacts, T3 with up to 5 contact units = 10 contacts. They have a high degree of protection and up to 5 cable entries. If more than 5 cables or large cross-section cables are to be connected, then we recommend the use of insulated enclosures from the CI System.

- 1) Select the required switch and determine the cables to be connected.
- 2) Select an enclosure (→ HPL0214-2001) according to the minimum mounting depth of the switch. This depth dimension has to be less than or equal to the internal mounting depth of the enclosure. In addition, the quantity and size of the cable entries must be taken into account.

Use the tables below to determine whether, and if so how many, ZAV-... shaft extensions are required and, for .../SVB switches, the identical quantity of ZVV-... interlock extensions.

**Example:**


Switch:  
T3-6-.../V/SVB  
Minimum mounting depth:  
T...-6/Z = 147 mm  
Extensions:

No extension is required for an enclosure having a mounting depth of 150 mm. Two ZAV-T0 shaft extensions and two ZVV-T0 interlock extensions are required for an enclosure having a mounting depth of 200 mm.

Dimensions in mm With extension Number Switch type	T0-... mounting depths						T3-... mounting depths						T5(B)-... mounting depths					
	Without/		With ZAV-T0				Without/		With ZAV-T0				Without/		With ZAV-P3			
	From	To	+1 To	+2 To	+3 To	+4 To	From	To	+1 To	+2 To	+3 To	+4 To	From	To	+1 To	+2 To	+3 To	+4 To
T...-1-.../Z(V/SVB)	86	102	127	152	177	202	89	105	130	155	180	205	92	107	132	157	182	207
T...-2-.../Z(V/SVB)	96	112	137	162	187	212	101	116	141	166	191	216	109	124	149	174	199	224
T...-3-.../Z(V/SVB)	105	121	146	171	196	221	112	128	153	178	203	228	125	140	165	190	215	240
T...-4-.../Z(V/SVB)	115	131	156	181	206	231	124	139	164	189	214	239	142	157	182	207	232	257
T...-5-.../Z(V/SVB)	124	140	165	190	215	240	135	151	176	201	226	251	158	173	198	223	248	273
T...-6-.../Z(V/SVB)	134	150	175	200	225	250	147	162	187	212	237	262	175	190	215	240	265	290
T...-7-.../Z(V/SVB)	143	159	184	209	234	259	158	174	199	224	249	274	191	206	231	256	281	306
T...-8-.../Z(V/SVB)	153	169	194	219	244	269	170	185	210	235	260	285	208	223	248	273	298	323
T...-9-.../Z(V/SVB)	162	178	203	228	253	278	181	197	222	247	272	297	224	239	264	289	314	339
T...-10-.../Z(V/SVB)	172	188	213	238	263	288	193	208	233	258	283	308	241	256	281	306	331	356
T...-11-.../Z(V/SVB)	181	197	222	247	272	297	204	220	245	270	295	320						

## T Rotary Switches

## Technical Data

		T0-...	T3-...	T5B-...	T5-...	T6-... (T6-160-6)	T8-...
<b>General technical data</b>							
Standards		IEC/EN 60 947, IEC/EN 60 204, CSA, UL Switch-disconnector to IEC/EN 60 947-3 Load-break switch to IEC/EN 60 947-3 Shipping classifications → SK0200-1043					
Lifespan, mechanical	Operations	> 10 <sup>6</sup>	5 × 10 <sup>5</sup>	5 × 10 <sup>5</sup>	5 × 10 <sup>5</sup>	> 10 <sup>5</sup>	> 10 <sup>5</sup>
Max. operating frequency	Ops./h	3000	3000	3000	3000	50	50
Climatic proofing		Damp heat, constant, to IEC 60 068 Part 2-3 Damp heat, cyclical, to IEC 60 068 Part 2-30					
Ambient temperature	Open	Min./Max.	°C	-25/+50	-25/+50	-25/+50	-25/+50
	Enclosed	Min./Max.	°C	-25/+40	-25/+40	-25/+40	-25/+40
Mounting position		As required					
Dimensions		→ Page 07/096		→ Page 07/101		→ Page 07/103	
Weight		→ Page 15/023					
Mechanical shock resistance (shock duration 20 ms)		g	> 15	> 15 <sup>4)</sup>	> 15	> 15	> 15
<b>Contacts</b>							
Rated operational voltage $U_e$	V AC	690	690	690	690	690	690
Rated impulse withstand voltage $U_{imp}$	V	6000	6000	6000	6000	6000 (8000) <sup>2)</sup>	8000
Overvoltage category/pollution degree		III/3	III/3	III/3	III/3	III/3	III/3
Rated uninterrupted current $I_u$ with max. cable connected	A	20	32	63	100 <sup>5)</sup>	125 (160) <sup>2)</sup>	315 <sup>6)</sup>
Load-carrying capacity in intermittent operation, Class 12, AB 60/40/25	% DF	1.3/1.6/2 × $I_e$					
Short-circuit rating maximum fuse	A gG/gL	20	25	80	100	200 (160) <sup>2)</sup>	315
Rated short-time withstand current (1 s current) $I_{cw}$	$A_{rms}$	320	650	1300	1850	2000 (3000) <sup>2)</sup>	4200
Safe isolation to IEC 536 between the contacts	V AC	440	440	440	440	–	–
Protection against direct contact		Finger and back-of-hand proof to IEC 536					
Switching angles		90°/60°/45°/30°				90°/60°	60° (90°) <sup>3)</sup>
Contact units	Max.	11	11	10	10	3	3
Double-break contacts	Max.	22	22	20	20	6	6
Current heat loss per contact at $I_e$	W	0.6	1.1	4.5	7.5	11	11
<b>Terminal capacity</b>							
Solid or stranded <sup>1)</sup>	mm <sup>2</sup>	1 × (1 – 2.5)	1 × (1 – 6)	1 × (2.5 – 35)	1 × (2.5 – 35)	1 × 70 (95) <sup>2)</sup>	150
	mm <sup>2</sup>	2 × (1 – 2.5)	2 × (1 – 6)	2 × (2.5 – 16)	2 × (2.5 – 16)	2 × 25	–
Flexible with ferrule <sup>1)</sup> (ferrule to DIN 46 228)	mm <sup>2</sup>	1 × (0.75 – 1.5)	1 × (0.75 – 4)	1 × (1.5 – 25)	1 × (1.5 – 25)	1 × 50 (50) <sup>2)</sup>	120
	mm <sup>2</sup>	2 × (0.75 – 1.5)	2 × (0.75 – 4)	2 × (1.5 – 10)	2 × (1.5 – 10)	2 × 16	–
Flat conductor connection	mm <sup>2</sup>	–	–	–	–	–	1 busbar 25 × 5 <sup>3)</sup> 2 busbars 20 × 3 <sup>3)</sup>
Terminal screw		M3.5	M4	M6		M6 (counter-sunk M5) <sup>2)</sup>	M12
Max. tightening torque	Nm	1	1.5	4		5.6 (14) <sup>2)</sup>	25
		<b>T0-1-... to T0-4-...</b>	<b>T3-1- to T3-6-</b>	<b>T5B-...</b>	<b>T5-...</b>	<b>T6-... (T6-160-6)</b>	<b>T8-3-8342</b>
<b>Switch-disconnector</b> 							
(Main switches)							
Switching angles		90°	90°	90°	90°	90°	90°
Max. number of switch positions		2	2	2	2	2	2
Max. number of contacts for isolating characteristics to IEC/EN 60 947		8	12	20	20	3 (6) <sup>2)</sup>	6
Isolating characteristics to IEC/EN 60 947		Up to V AC		500	500	690	690

## Notes

- 1) T0(3), (6), (8)...: Max. 2 cross-section sizes difference admissible between 2 conductors  
T5(B)-...: Max. 1 cross-section size difference admissible between 2 conductors
- 2) For T6-160-6/...
- 3) For T8-3-8342/...
- 4) T3-.../I... > 12 g
- 5) T5-4-8344/I5: max. 95 A
- 6) Enclosed version: max. 275 A


## T Rotary Switches

### Technical Data

				T0-...	T3-...	T5B-...	T5-...	T6-... (T6-160-6)	T8-...
<b>Switching capacity</b>									
<b>AC</b>									
	Rated making capacity	$\cos \varphi = 0.35$	A	130	320	800	950	1600	2390
	Rated breaking capacity	230 V AC, $\cos \varphi = 0.35$	A	100	260	520	760	1280	1910
	Motor load switches	400 V AC, $\cos \varphi = 0.35$	A	110	260	600	740	900	1800
		500 V AC, $\cos \varphi = 0.35$	A	80	240	480	590	880	1200
		690 V AC, $\cos \varphi = 0.35$	A	60	170	340	420	340	420
		Rated operational current $I_e$ 380 – 440 V, 3~	A	20	32	63	100	125 (160)	315
AC-21A	Load-break switches								
AC-3	Motor load switches, for operational switching Star-delta values Y $\Delta$ : for star-delta switches without automatic spring-return	220 – 240 V, 3~	kW	3	6.5	15	18.5	22	37
		220 – 240 V, Y $\Delta$	kW	4	11	22	30	22	37
		380 – 440 V, 3~	kW	4	12	22	30	37 (45)	55
		380 – 440 V, Y $\Delta$	kW	5.5	18.5	37	45	37 (45)	55
		500 V, 3~	kW	5.5	15	22	37	37	37
		500 V, Y $\Delta$	kW	7.5	22	37	55	37	37
		660/690 V, 3~	kW	4	15	22	30	22	37
		660/690 V, Y $\Delta$	kW	5.5	22	37	45	22	37
AC-23A	Motor load switches (main switches, maintenance switches)	220 – 240 V, 3~	kW	3.5	7.5	18.5	18.5	37	75
		380 – 440 V, 3~	kW	6.5	13	22	30	45 (55)	132
		500 V, 3~	kW	7.5	15	22	37	55	75
		660/690 V, 3~	kW	–	–	22	30	30	37
AC-15	Control switches	Rated operational current $I_e$ 220 – 240/380 – 415/500 V	A	6/4/2	10/6/4	16/6/4	16/6/4	–	–
<b>DC</b>									
DC-1	Load-break switches L/R = 1 ms	Rated operational current $I_e$	A	10	25	63	80	125	315
		Voltage per contact pair in series	V	60	60	60	60	42	42
DC-21A		240 V	A	1	1	–	–	–	–
DC-23A	Motor load switches L/R = 15 ms	24 V	A	10 (1)	25 (1)	50 (1)	–	125 (1)	250 (1)
		48 V	A	10 (2)	25 (2)	50 (2)	–	125 (2)	250 (2)
		60 V	A	10 (3)	25 (3)	50 (3)	–	125 (3)	125 (3)
		120 V	A	5 (3)	12 (3)	25 (3)	–	50 (3)	50 (3)
		240 V	A	5 (5)	10 (5)	20 (6)	–	–	–
DC-13	Control switches L/R = 50 ms	Rated operational current $I_e$	A	10	20	25	–	125	250
		Voltage per contact pair in series	V	32	32	24	–	24	–
Control circuit reliability at 24 V DC, 10 mA		Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , < 1 fault in 100000 operations					
				<b>T6-160-6/...</b> <b>T8-3-8342/...</b>					
<b>Auxiliary contacts</b>									
Standards				Control circuit isolator to IEC/EN 60 947-5 $\rightarrow$					
Rated insulation voltage $U_i$			V AC	500					
Rated uninterrupted current $I_u$ with max. cable connected			A	10					
Rated operational current $I_e$ AC-15 with 220 – 240/380 – 415/500 V			A	6/4/3					
Short-circuit rating without welding, Max. fuse			A gG/gL	10					
Terminal capacity			Min. solid or flexible	mm <sup>2</sup>	0.75/0.5				
			Max. solid or flexible	mm <sup>2</sup>	2.5/1.5				
Max. tightening torque			Nm	0.35					
Control circuit reliability at 24 V DC, 10 mA		Fault probability	H <sub>F</sub>	< 10 <sup>-5</sup> , < 1 fault in 100 000 operations					

## P Switch-Disconnectors

## Technical Data

		P1-25	P1-32	P3-63	P3-100		
<b>General technical data</b>							
Standards		IEC/EN 60 947, VDE 0660, IEC/EN 60 204, CSA, UL Switch-disconnector to IEC/EN 60 947-3 					
Lifespan, mechanical	Operations	$3 \times 10^5$	$3 \times 10^5$	$10^5$	$10^5$		
Max. operating frequency	Ops./h	50	50	50	50		
Climatic proofing		Damp heat, constant, to IEC 60 068 Part 2-3 Damp heat, cyclical, to IEC 60 068 Part 2-30					
Ambient temperature	Open	Min./Max.	°C	-25/+50	-25/+50	-25/+50	-25/+50
	Enclosed	Min./Max.	°C	-25/+40	-25/+40	-25/+40	-25/+40
Mounting position		As required					
Dimensions		→ Page 07/104					
Weight		→ Page 15/023					
Mechanical shock resistance (half-sinusoidal shock 20 ms)	g	> 20	> 20	> 20	> 20		
<b>Contacts</b>							
Rated operational voltage $U_e$	V AC	690	690	690	690		
Rated impulse withstand voltage $U_{imp}$	V	6000	6000	6000	6000		
Overvoltage category/pollution degree		III/3	III/3	III/3	III/3		
Rated uninterrupted current $I_u$ with max. cable connected	A	25	32	63	100		
Load-carrying capacity in intermittent operation, Class 12, AB 60/40/25 % DF	$\times I_e$	1.3/1.6/2	1.3/1.6/2	1.3/1.6/2	1.3/1.6/2		
Short-circuit rating	Max. 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 60 947	Up to VAC	690	690	690	690		
Safe isolation to IEC 536 between the main contacts and the auxiliary contacts	V AC	440	440	440	440		
Protection against direct contact		Finger and back-of-hand proof to IEC 536					
Switching angles		90°	90°	90°	90°		
Contacts (current paths)	Max.	3(+N)	3(+N)	3(+N)	3(+N)		
Current heat loss per contact at $I_e$	W	1.1	1.8	4.5	7.5		
<b>Terminal capacity</b>							
Solid or stranded <sup>1)</sup>	mm <sup>2</sup>	1 × (1.5 – 6)	1 × (1.5 – 6)	1 × (2.5 – 35)	1 × (2.5 – 35)		
	mm <sup>2</sup>	2 × (1.5 – 6)	2 × (1.5 – 6)	2 × (2.5 – 10)	2 × (2.5 – 10)		
Flexible with ferrule <sup>1)</sup> (ferrule to DIN 46 228)	mm <sup>2</sup>	1 × (1 – 4)	1 × (1 – 4)	1 × (1.5 – 25)	1 × (1.5 – 25)		
	mm <sup>2</sup>	2 × (1 – 4)	2 × (1 – 4)	2 × (1.5 – 6)	2 × (1.5 – 6)		
Terminal screw		M4	M4	M5	M5		
Max. tightening torque	Nm	1.6	1.6	4	4		

## Notes


Main switch characteristics to IEC/EN 60 204;  
positive opening of contacts, operator element positively located on shaft

<sup>1)</sup> P1-...:  
Max. 2 cross-section sizes difference admissible  
when using 2 conductors  
P3-...:  
Max. 1 cross-section size difference admissible when  
using 2 conductors



## P Switch-Disconnectors

### Technical Data

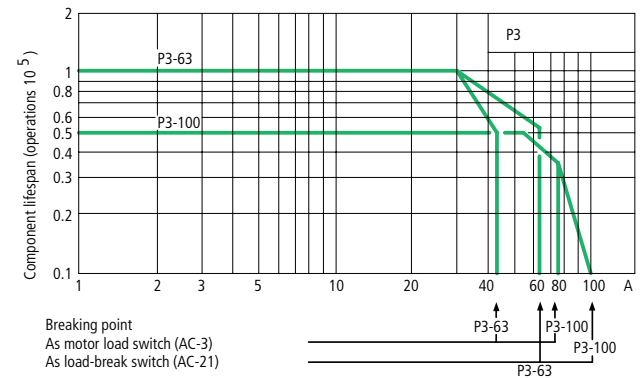
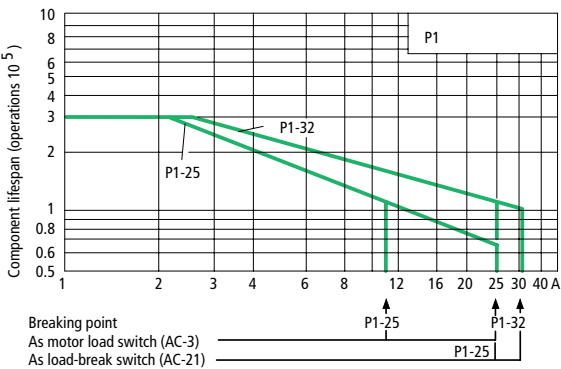
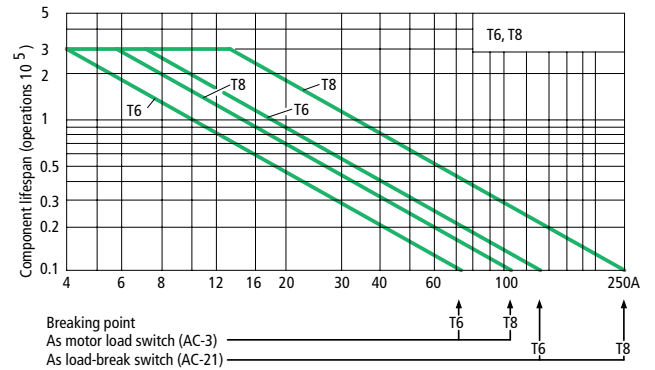
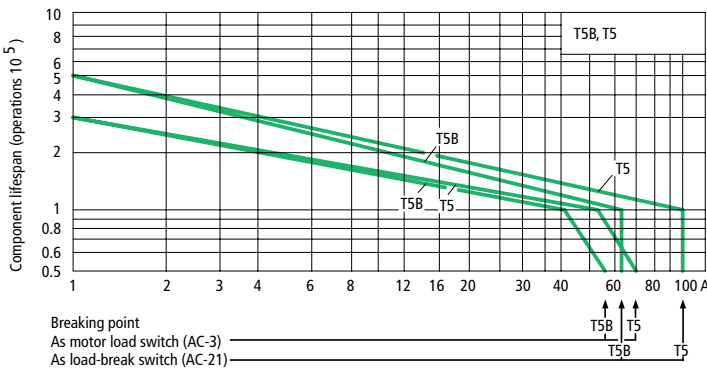
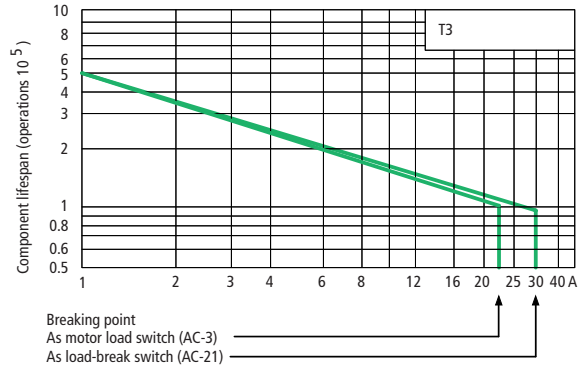
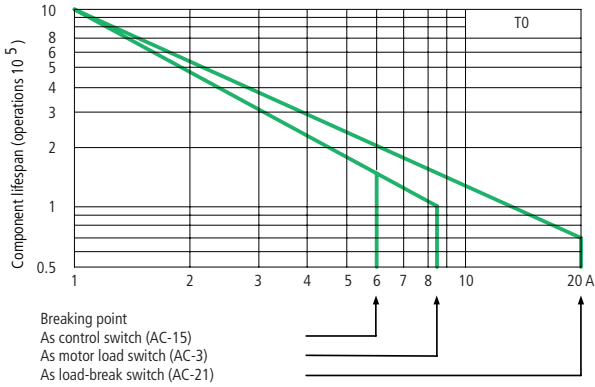
					P1-25	P1-32	P3-63	P3-100
<b>Switching capacity</b>								
<b>AC</b>								
	Rated making capacity	$\cos \varphi = 0.35$	A		240	320	800	950
	Rated breaking capacity	230 V AC, $\cos \varphi = 0.35$	A		190	260	640	760
	Motor load switches	400 V AC, $\cos \varphi = 0.35$	A		150	300	600	740
		500 V AC, $\cos \varphi = 0.35$	A		170	290	590	880
		690 V AC, $\cos \varphi = 0.35$	A		150	250	340	520
AC-21A	Load-break switches	Rated operational current $I_e$ 380 – 440 V, 3~	A		25	32	63	100
AC-3	Motor load switches, for operational switching	220 – 240 V, 3~	kW		5.5	7.5	15	22
		380 – 440 V, 3~	kW		7.5	13	30	37
		500 V, 3~	kW		7.5	18.5	30	45
		660/690 V, 3~	kW		7.5	15	30	37
AC-23A	Motor load switches (main switches, maintenance switches)	220 – 240 V, 3~	kW		7	8.5	18.5	30
		380 – 440 V, 3~	kW		13	15	37	50
		500 V, 3~	kW		11	18.5	37	65
		660/690 V, 3~	kW		11	18.5	30	75
<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 switches L/R = 15 ms	24 V	A		25 (1)	25 (1)	50 (1)	50 (1)
		48 V	A		25 (2)	25 (2)	50 (2)	50 (2)
		60 V	A		25 (3)	25 (3)	50 (3)	50 (3)
		120 V	A		12 (3)	12 (3)	25 (3)	25 (3)
		Figures in brackets: number of contacts to be switched in series						
					N-P1...		N-P3...	
<b>Switched neutral</b>								
Switching capacity					As P1-32		As P3-100	
					HI11-P1/P3			
<b>Auxiliary contacts</b>								
Standards					Control circuit isolator to IEC/EN 60 947-5 			
Rated insulation voltage $U_i$			V AC		500			
Rated uninterrupted current $I_u$ with max. cable connected			A		10			
Rated operational current $I_e$								
AC-15		220 – 240/380 – 415/500 V	A		6/4/3			
DC-13		250 V DC	A		0.55			
		125 V DC	A		1.1			
Short-circuit rating without welding, Max. fuse			A gG/gL		10			
Terminal capacity		Min. solid or flexible	mm <sup>2</sup>		0.75/0.5			
		Max. solid or flexible	mm <sup>2</sup>		2.5/1.5			
Max. tightening torque			Nm		0.6			
Control circuit reliability at 24 V DC, 10 mA		Fault probability	H <sub>F</sub>		< 10 <sup>-5</sup> , < 1 fault in 100 000 operations			

# T Rotary Switches, P Switch-Disconnectors

## Tripping Characteristics

### Component lifespan in relation to breaking current and utilization category <sup>1)</sup>

In order to achieve a reasonable lifespan in utilization category AC-4 (severe duty: 100 % inching, reversing or plugging), the stalled motor current should not exceed the rated current of the switch at AC-21.



**Notes**

<sup>1)</sup> AC-3 and AC-21 at 400 V, AC-15 at 230 V

## TM Mini Rotary Switches

## Technical Data

General technical data					
Standards				IEC/EN 60 947, UL, CSA Control switches to IEC/EN 60 947-5-1 Control circuit isolators to IEC/EN 60 947-5-1 $\rightarrow$	
Control circuit isolators (IEC/EN 60 947-5-1)				Maximum 6 contacts; switching angle 90°	
Lifespan, mechanical		Operations	Ops.	$> 1 \times 10^6$	
Max. operating frequency			Ops./h	3000	
Climatic proofing				Damp heat, constant, to IEC 60 068 Part 2-3 Damp heat, cyclical, to IEC 60 068 Part 2-30	
Ambient temperature	Open	Min./Max.	°C	-25/+50	
	Enclosed	Min./Max.	°C	-25/+40	
Mounting position				As required	
Mechanical shock resistance (shock duration 20 ms)			g	> 15	
Protection against direct contact				Finger and back-of-hand proof to IEC 536	
Terminal capacity	Solid	1 conductor	Min./Max.	mm <sup>2</sup>	
		2 conductors	Max.	mm <sup>2</sup>	
	Flexible	1 conductor	Min.	mm <sup>2</sup>	0.75 (AWG 18)
		2 conductors	Max.	mm <sup>2</sup>	0.75
Terminal screw				M2.5	
Max. tightening torque			Nm	0.35	
Dimensions				$\rightarrow$ Page 07/108	
Contacts					
Mechanical values					
Contacts			Max.	16	
Contact units			Max.	8	
Switching angles				90°/60°/45°/30°	
Min. switching angle for On-Off-On				60°	
Switch positions			Max.	12	
Thickness of gold coating			$\mu$ m	35	
Electrical values					
Rated operational voltage $U_e$			V AC	500	
Rated impulse withstand voltage $U_{imp}$ applicable to systems with earthed neutral point			kV	4	
Overvoltage category/pollution degree				III/3	
Rated insulation voltage $U_i$			V AC	500 (UL/CSA 300 V AC)	
Rated uninterrupted current $I_u$ with max. cable connected			A	10	
Switching capacity					
AC-23A	220 – 240 V, 3~		kW	1.8	
Motor load switches	380 – 440 V, 3~		kW	3	
	500 V, 3~		kW	3.7	
	220 – 240 V, 1~		kW	0.75	
	380 – 440 V, 1~		kW	1.1	
AC-15 Control switches	220 – 240 V, 1~		A	2.5	
	380 – 415 V, 1~		A	1.5	
	440 V, 1~		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 Max. 32 V DC per contact		A	3	
Switching capacity for North America					
	240 V, 3~		HP	1	
	277 V, 1~		HP	¾	
	300 V AC		A	10 Heavy duty	
Short-circuit protective device					
Maximum fuse			A gG/gL	10	
Control circuit reliability					
24 V DC, 10 mA		Fault probability	$H_F$	$< 10^{-5}$ , < 1 fault in 100 000 operations	

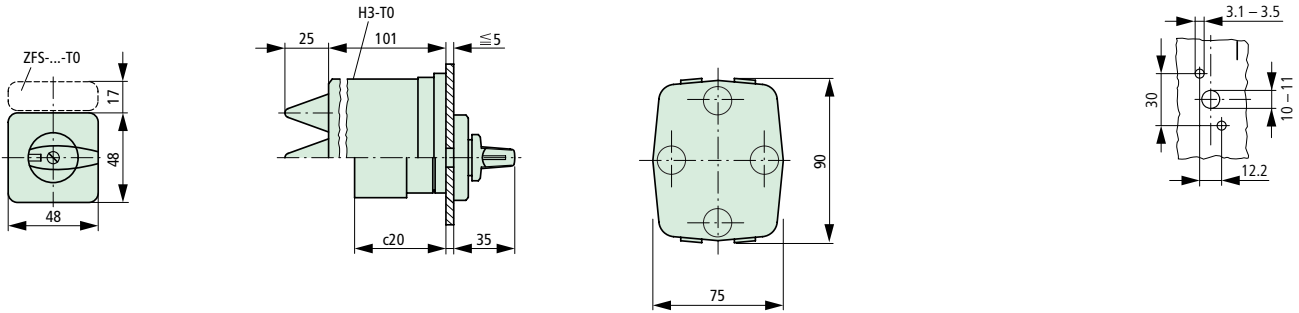
# T0, T3 Rotary Switches

## Dimensions

### Flush mounting

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

### Drilling dimensions



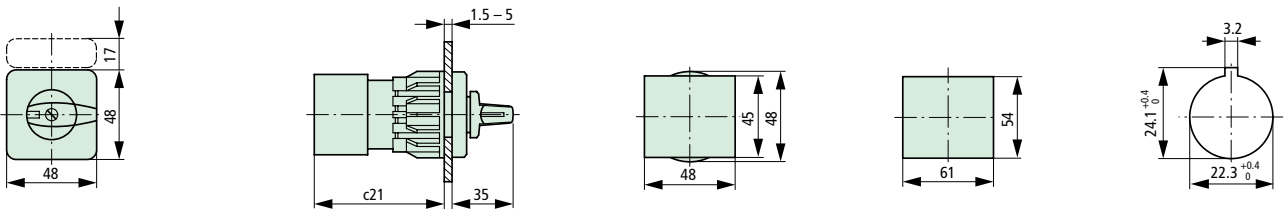
### Centre mounting

T0.../EZ (/OFS)  
T3.../EZ (/OFS)

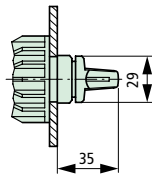
T0

T3

### Drilling dimensions



T.../EZ/OFS



Type	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

Depth of one contact unit: 9.5 mm

Type	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

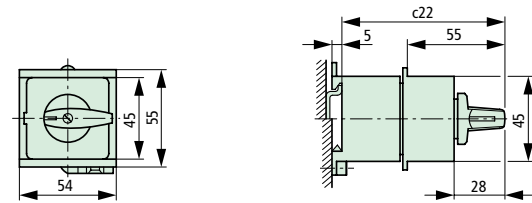
Depth of one contact unit: 11.5 mm

# T0, T3 Rotary Switches

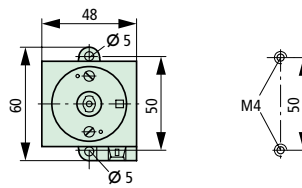
## Dimensions

### Service distribution board mounting

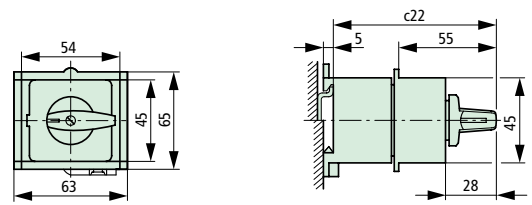
T0.../VS



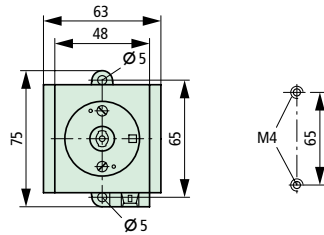
Drilling dimensions  
Base



T3.../XZ + IVS-T0

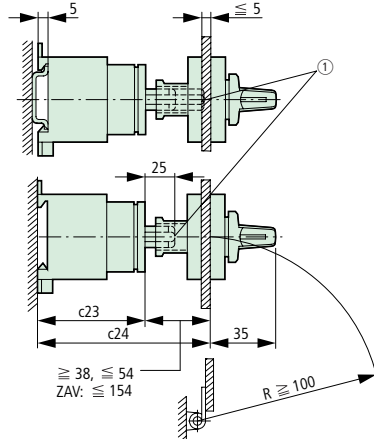
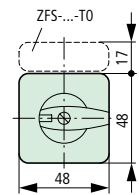


Drilling dimensions  
Base

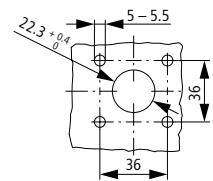
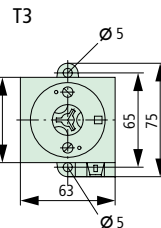
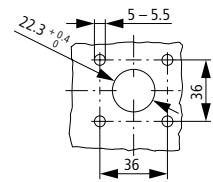
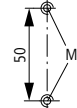
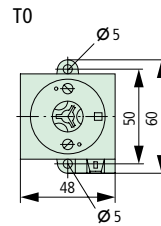


### Rear mounting

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



Drilling dimensions  
Base      Drilling dimensions  
Door



① Can be extended using ZVV-T0,  $\leq 4 \times 25 = 100$  mm

Type	c20	c21	c22	c23	c24 $\cong / \cong$	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	-

Depth of one contact unit: 9.5 mm

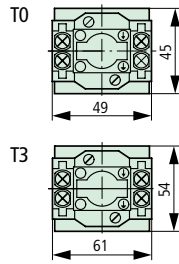
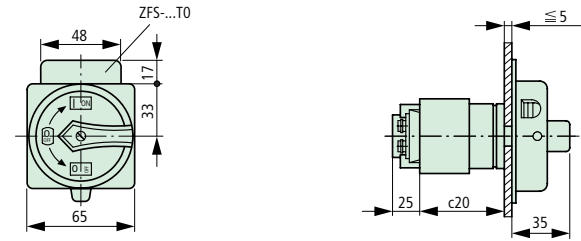
Type	c20	c21	c22	c23	c24 $\cong / \cong$	c24 with $\cong 4$ ZAV	c25
T3-1...	44	64	80	51	86 - 105	205	79
T3-2...	56	76	92	63	101 - 115	216	79
T3-3...	67	87	103	74	112 - 128	228	101
T3-4...	79	99	115	86	124 - 139	239	101
T3-5...	90	110	126	97	135 - 151	251	-
T3-6...	102	122	138	109	147 - 162	262	-
T3-7...	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	-

Depth of one contact unit: 11.5 mm

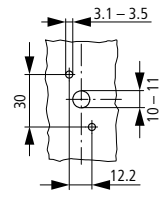
# T0, T3 Rotary Switches Dimensions

## Flush mounting main switches

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

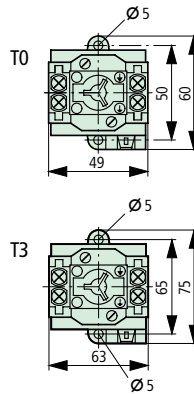
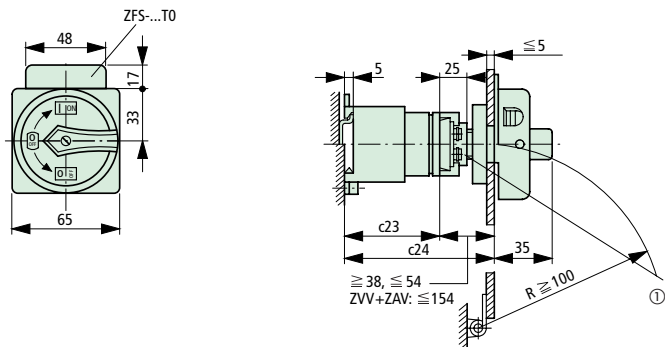


Drilling dimensions  
Door



## Rear mounting main switches

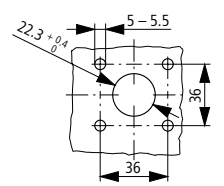
T0.../V/SVB  
T3.../V/SVB



Drilling dimensions  
Base



Drilling dimensions  
Door

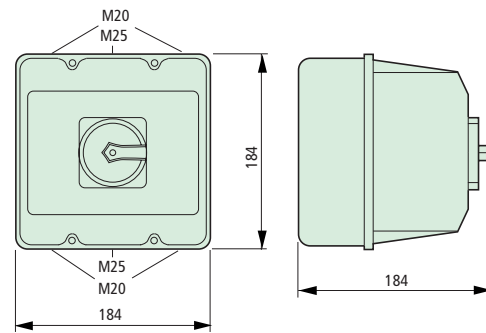
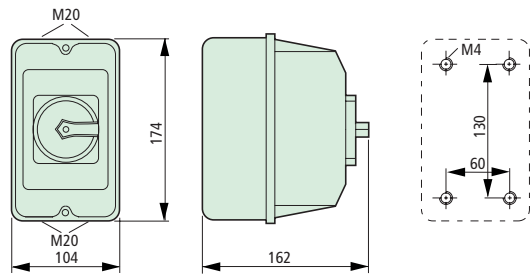


① Interlock can be extended using ZVV-T0 + ZAV-T0, ≅ 4 × 25 = 100 mm

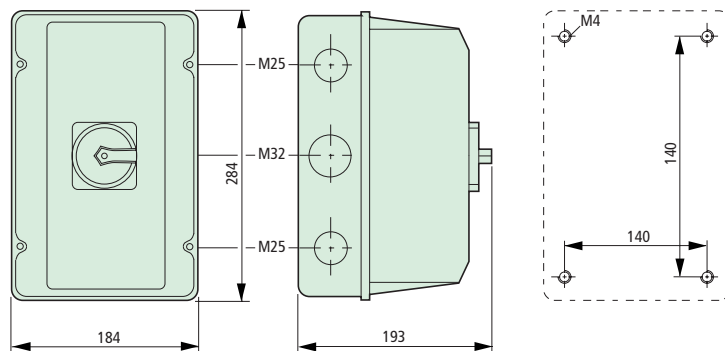
## Sheet steel enclosures

T0.../ST, P1.../ST

P3.../ST



T3.../ST, T5(B).../ST

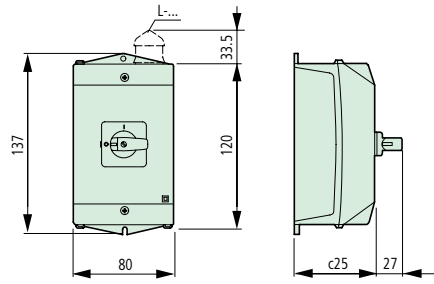


# T0, T3 Rotary Switches

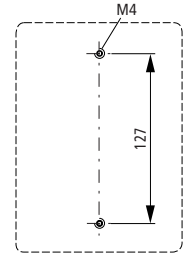
## Dimensions

### Surface mounting

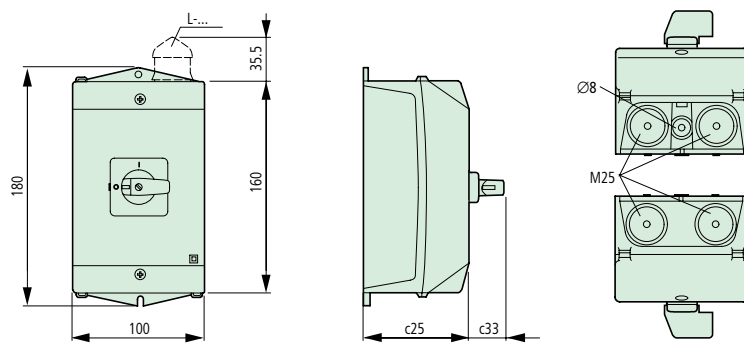
T0.../I1



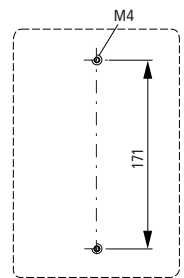
Drilling dimensions  
Base



T3.../I2

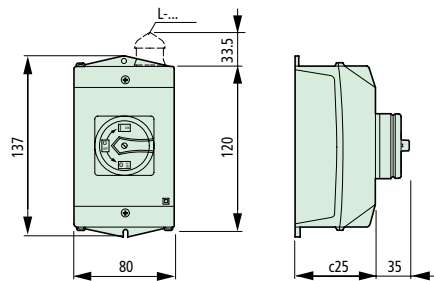


Drilling dimensions  
Base

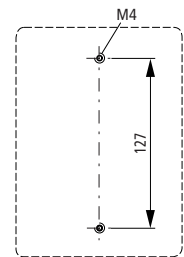


### Surface mounting main switches

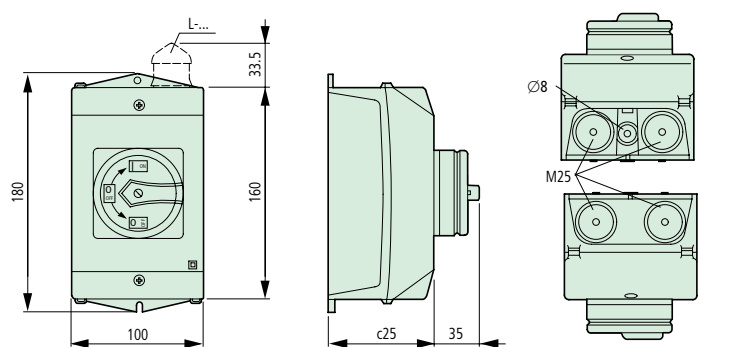
T0.../I1/SVB



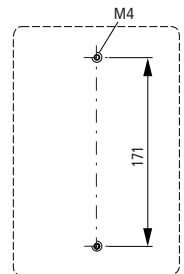
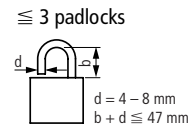
Drilling dimensions  
Base



T3.../I2/SVB



Drilling dimensions  
Base



Type	c25
T0-1...	75
T0-2...	75
T0-3...	95
T0-4...	95

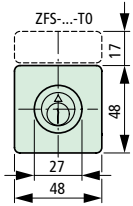
Type	c25	c33
T3-1...	80	27
T3-2...	80	27
T3-3...	100	35
T3-4...	100	35
T3-5...	145	35

# T0, T3 Rotary Switches, Accessories

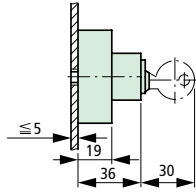
## Dimensions

### Key operation

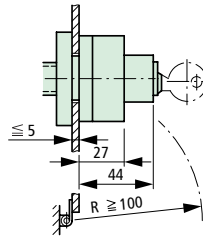
S-T0  
S-SOND...-T0



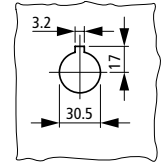
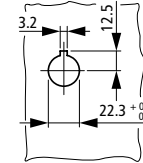
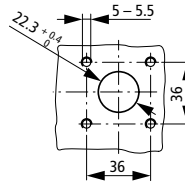
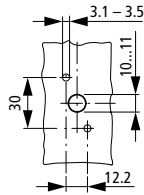
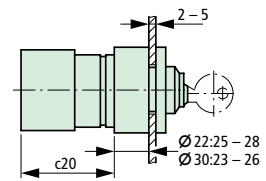
T0.../E(I1) + S-(SOND-)T0  
T3.../E(I2) + S-(SOND-)T0



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

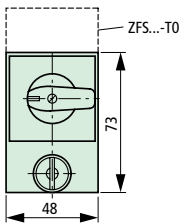


T0.../EZ △ T0.../E + EZ-T0 + S-(SOND-)T0  
T3.../EZ △ T3.../E + EZ-T0 + S-(SOND-)T0

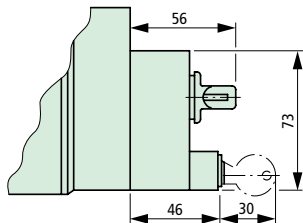


### Cylinder lock

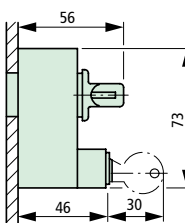
SVA-T3



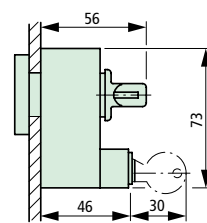
T0.../I1/SVA  
T3.../I2/SVA



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



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

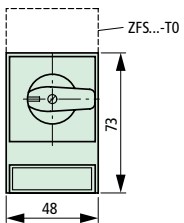


### Push-button interlock

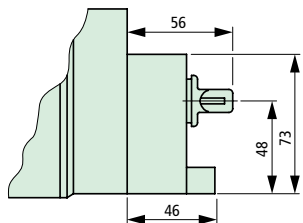
#### Padlocking feature

Dimensions as DTV-T3

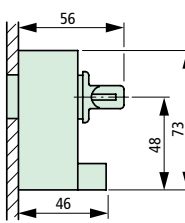
DTV-T3  
SVC-T3



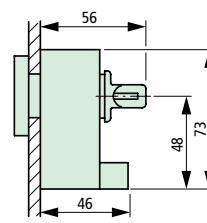
T0.../I1/DTV  
T3.../I2/DTV  
T0.../I1/SVC  
T3.../I2/SVC



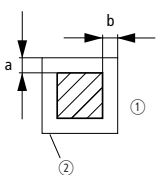
T0.../E/DTV...  
T3.../E/DTV...  
T0.../E/SVC...  
T3.../E/SVC...



T0.../Z/DTV...  
T3.../Z/DTV...  
T0.../Z/SVC...  
T3.../Z/SVC...



### Mounting clearance



- ① Mounting clearances a and b: 4 mm
- ② Exposed conductive part (metal)



# T5B, T5 Rotary Switches

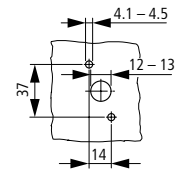
## Dimensions

### Flush mounting

T5(B).../E

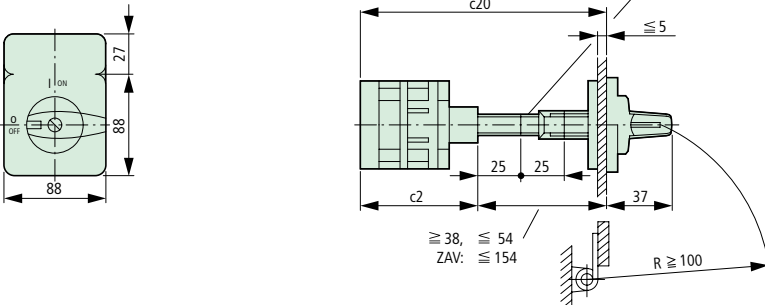


Drilling dimensions  
Door

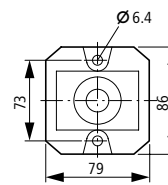


### Rear mounting

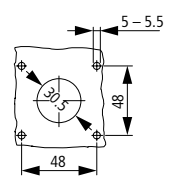
T5(B).../Z



Drilling dimensions  
Base



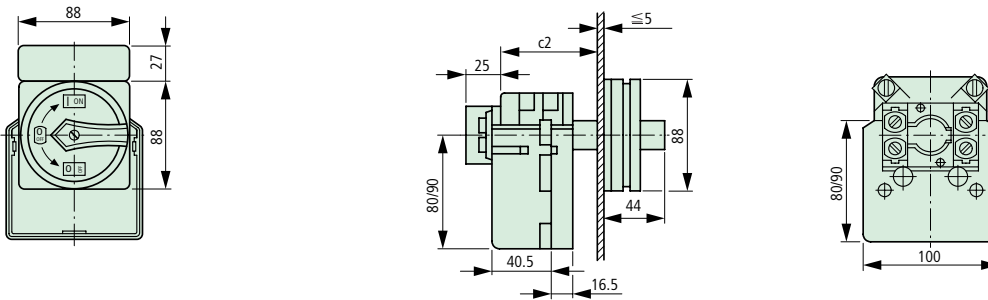
Drilling dimensions  
Door



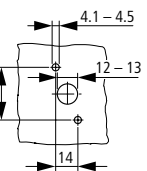
① Shaft can be extended using ZAV-P3,  $\cong 4 \times 25 = 100$  mm

### Flush mounting main switches

T5(B).../EA/SVB

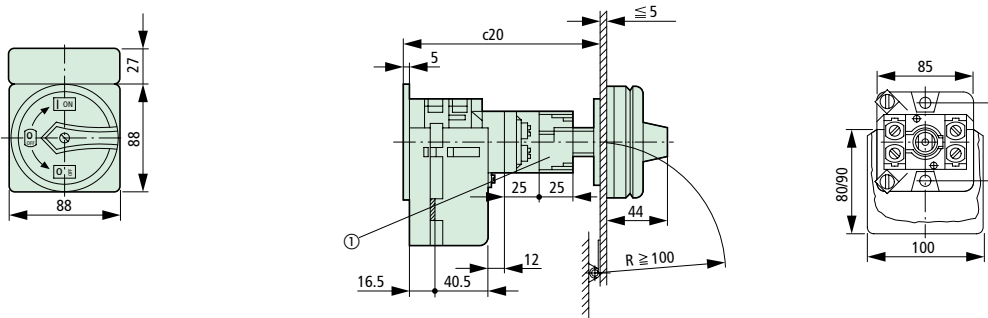


Drilling dimensions  
Door

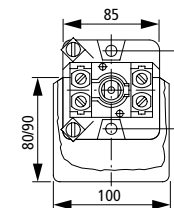


### Rear mounting main switches

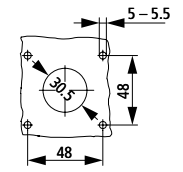
T5(B).../V/SVB



Drilling dimensions  
Base



Drilling dimensions  
Door



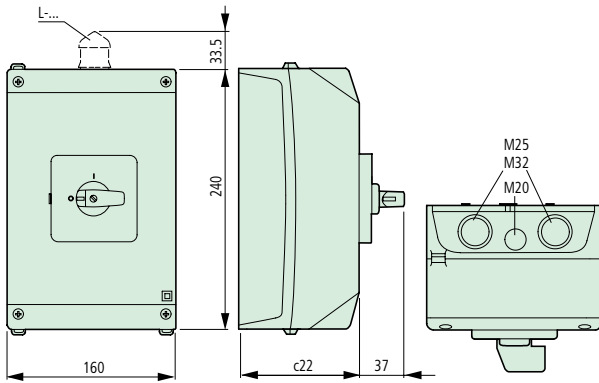
① Can be extended using ZVV-P3,  $\cong 4 \times 25 = 100$  mm

# T5B, T5 Rotary Switches

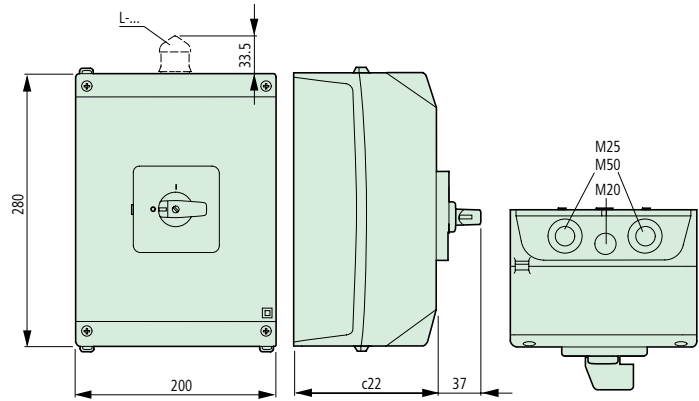
## Dimensions

### Surface mounting

T5(B).../I4

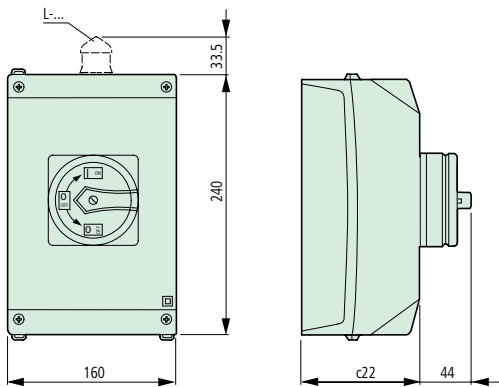


T5.../I5

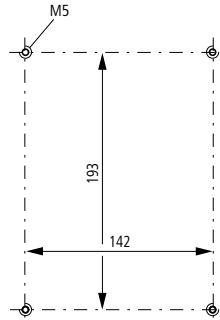


### Surface mounting main switches

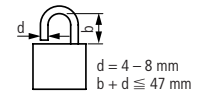
T5(B).../I4/SVB



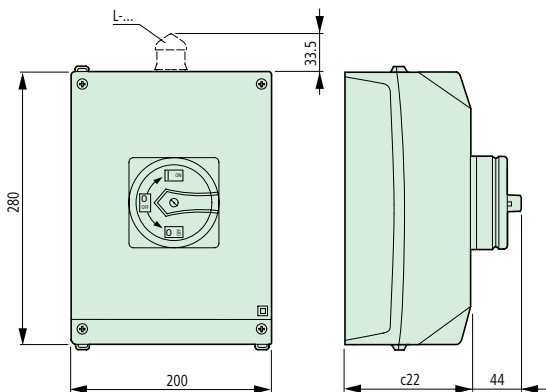
Drilling dimensions



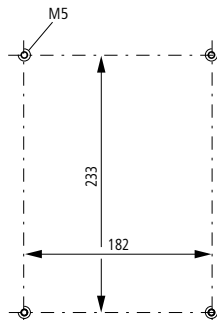
≧ 3 padlocks



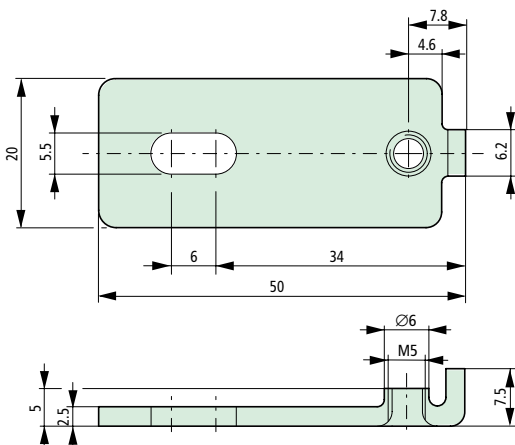
T5.../I5/SVB



Drilling dimensions



### External fixing bracket



Type	c2	c20 ≧/≦	c24 with ≧ 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	-	-

Depth of one contact unit: 16.5 mm

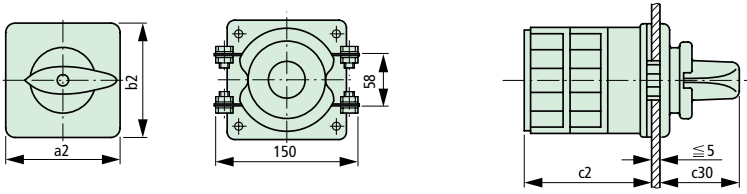
The rotary switches T5B and T5 are of identical design but differ in their contacts

# T6, T8 Rotary Switches

## Dimensions

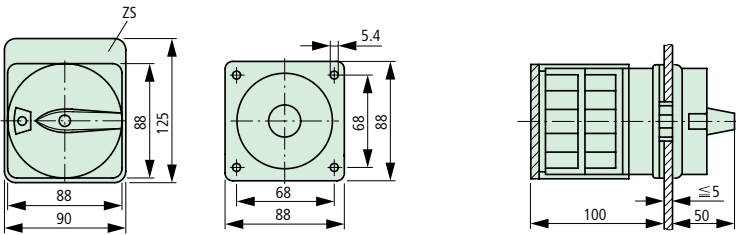
### Flush mounting

T6.../E  
T8.../E



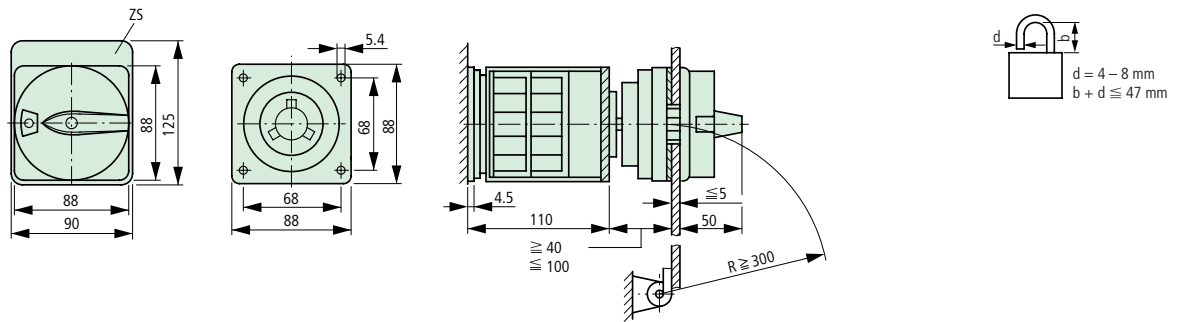
### Flush mounting main switches

T6-2/EA/SVB



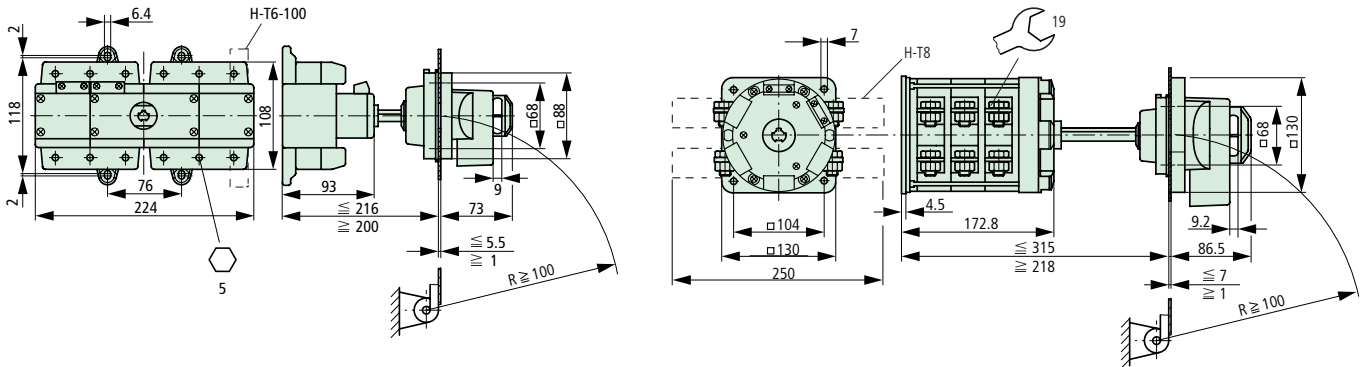
### Rear mounting main switches

T6-2/V/SVB



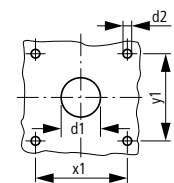
T6-160-6/V/SVB-SW/HI11

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



Type	a2	b2	c2	2 BE	3 BE	c30	d1	d2	x1	y1
T6...	88	88		100	152	44	∅ 26-30	∅ 6.0	68	68
T8.../E	130	130		-	173	62	∅ 22-25	∅ 7.0	104	104
T8.../SVB	-	-		-	-	-	∅ 38-42	∅ 7.0	68	68

### Drilling dimensions



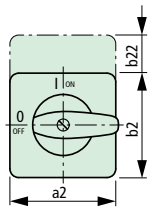
T6: 4 M5 × 20  
T8: 4 M6 × 20

# P Switch-Disconnectors

## Dimensions

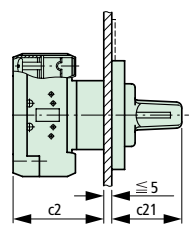
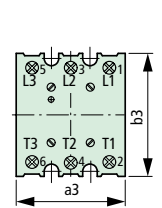
Rotary Switch-Disconnectors

### Flush mounting P.../E



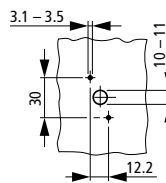
### Centre mounting P1.../EZ

P1.../EZ

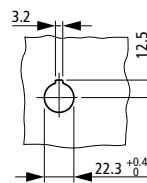


$P1.../EZ = c2 + 5 \text{ mm}$

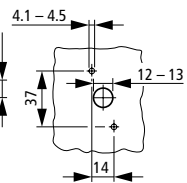
### Drilling dimensions Door P1.../E



P1.../EZ

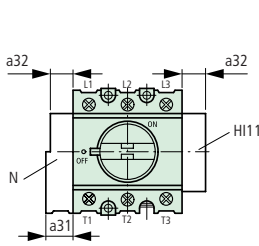
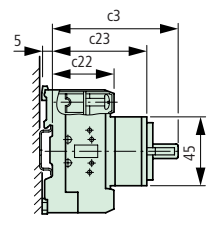
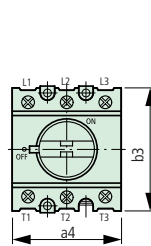


P3.../E

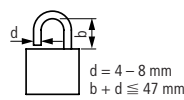


### Service distribution board mounting

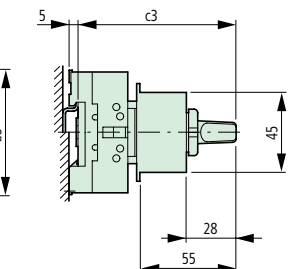
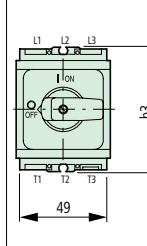
P3.../IVS



≅ 3 padlocks

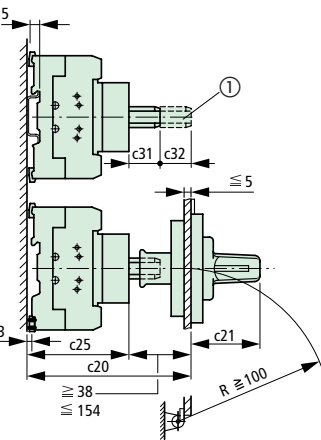
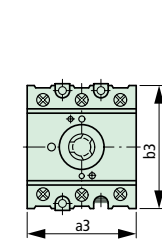
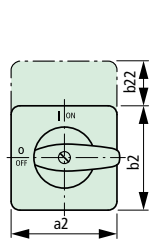


P1.../IVS

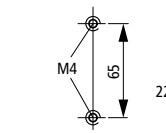


### Rear mounting

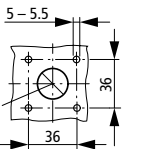
P.../Z



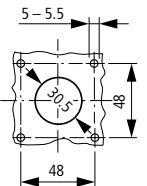
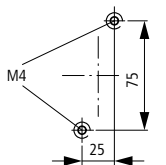
### Drilling dimensions Base P1.../Z



### Drilling dimensions Door



P3.../Z



① Shaft can be extended using ZAV..., ≅ 4 × 25 = 100 mm

Type	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	125	32	49
P3	87	72	71.5	87	87	125	18	15	114	87	83	87	27	175	-	60

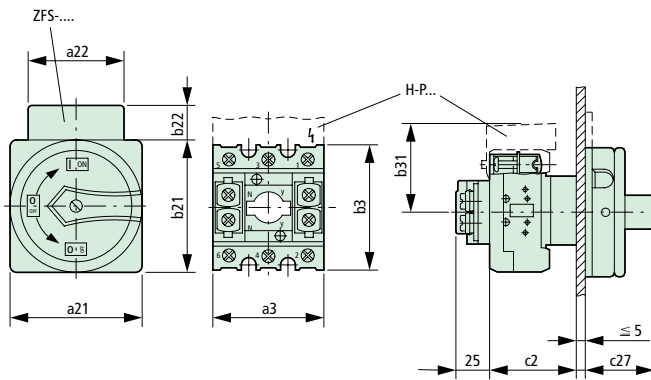
Type	c2	c3	c20 ≅/≅	c20 with ≅4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1	59	86	96 - 112	212	35	32	65	68	58	35	77	25	25	27
P3	59	82	103 - 118	218	37	41	63	81	65	44	90	25	25	29

# P Switch-Disconnectors

## Dimensions

### Flush mounting main switches

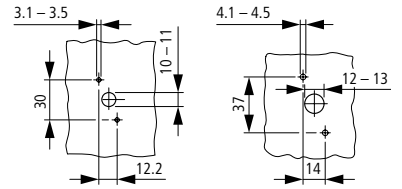
P.../EA/SVB



Drilling dimensions  
Door

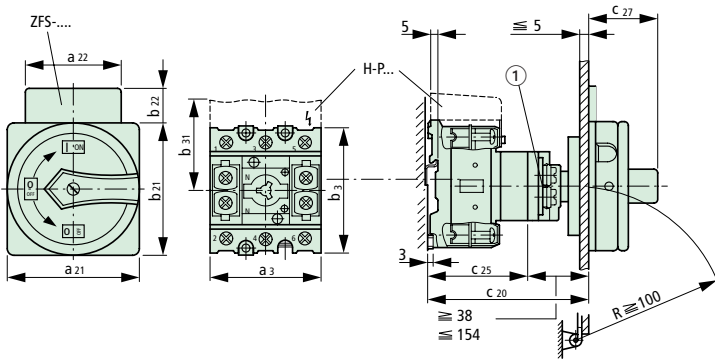
P1...

P3...



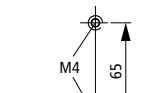
### Rear mounting main switches

P.../V/SVB

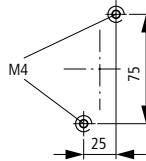


Drilling dimensions  
Base

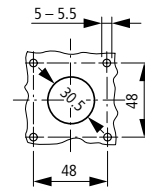
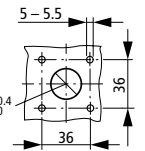
P1.../V/SVB



P3.../V/SVB



Drilling dimensions  
Door

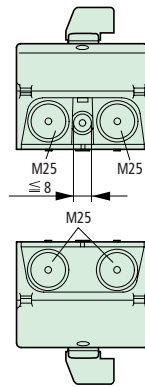
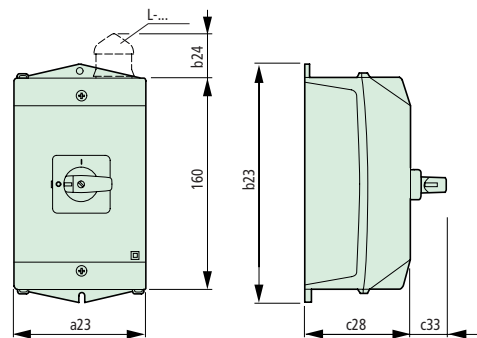


① Interlock can be extended using ZVV-T0 + ZAV-T0,  $\cong 4 \times 25 = 100$  mm

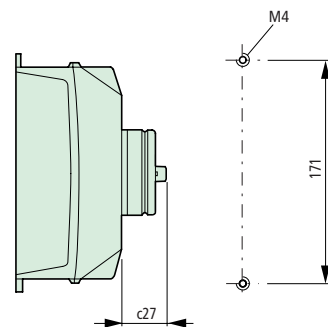
### Surface mounting

P1.../I2

Surface mounting main switches / safety switches  
P1.../I2/SVB  
P1.../I2/SI



Drilling dimensions



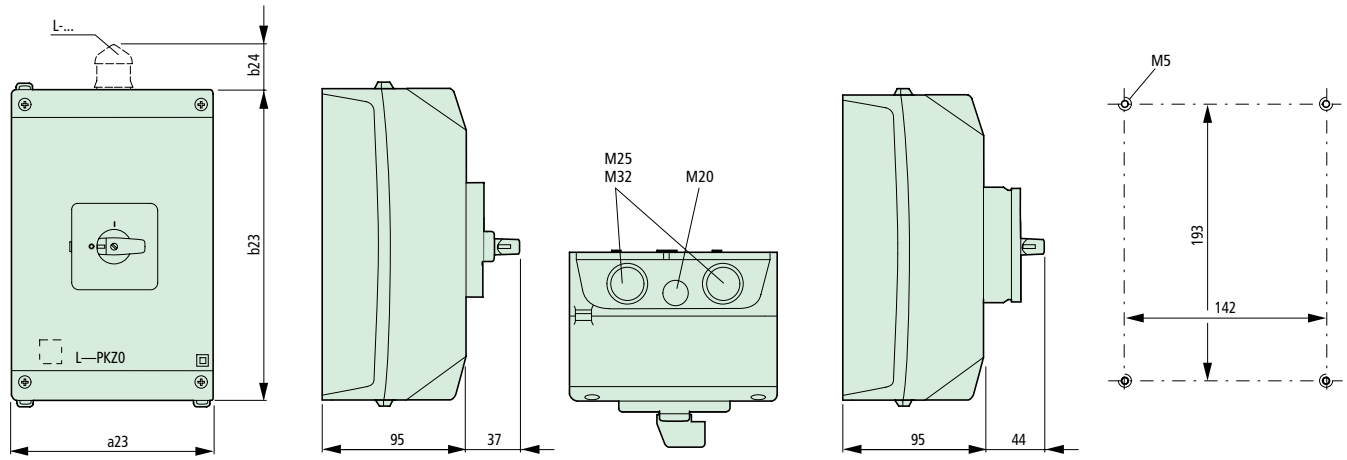
**P Switch-Disconnectors**

**Dimensions**

Surface mounting  
P3-63/14

Surface mounting main switches/safety switches  
P3-63/14/SVB  
P3-63/14/SI  
T5B-.../14/SI

Drilling dimensions

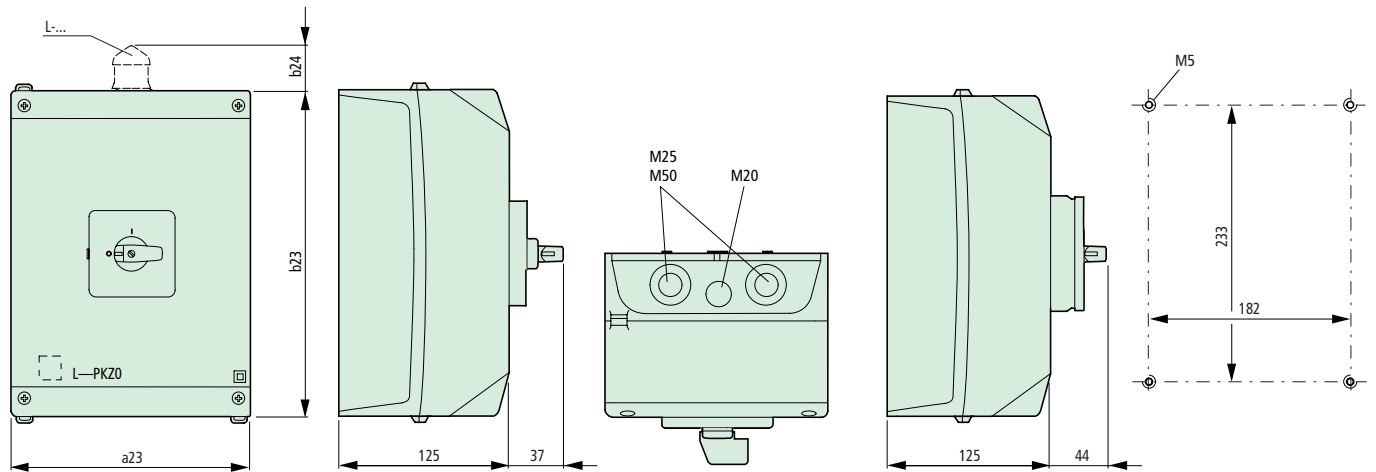


Surface mounting

P3-100/15

Surface mounting main switches/safety switches  
P3-100/15/SVB  
P3-100/15/SI  
T5-.../15/SI

Drilling dimensions



Type	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1.../12	48	49	53.5	65	48	100	15	15	83	48	70	65	17	180	35.5	49
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

Type	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
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

**P Switch-Disconnectors, Accessories**  
Dimensions

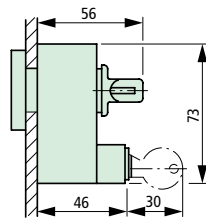
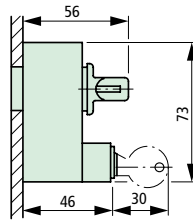
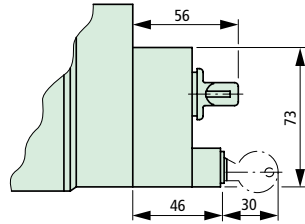
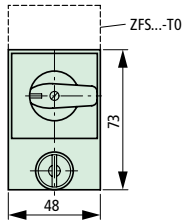
**Cylinder lock**

SVA-T3

P1.../I2/SVA

P1.../E/SVA

P1.../Z/SVA



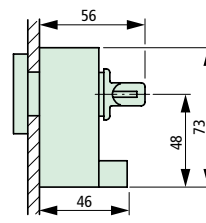
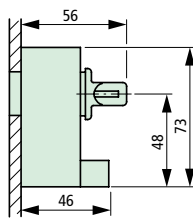
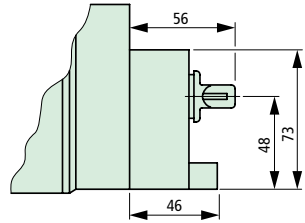
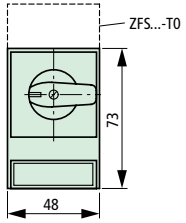
**Padlocking feature**

SVC-T3

P1.../I2/SVC

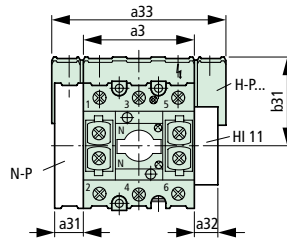
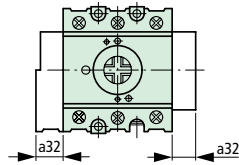
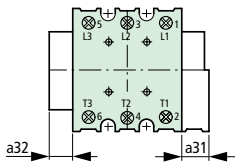
P1.../E/SVC

P1.../Z/SVC

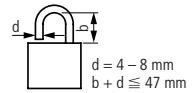


**Modules**

Switched neutral N-P...  
HI 11-P1/P3 auxiliary contacts



≡ 3 padlocks



Type	a3	a31	a32	a33	b31
P1-...	49	15	15	83	49
P3-..	72	18	15	114	60

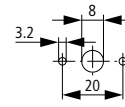
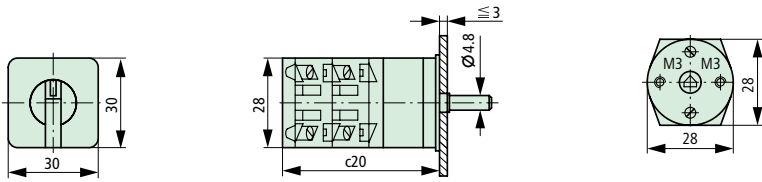
# TM Mini Rotary Switches

## Dimensions

### Flush mounting

TM.../E

Drilling dimensions

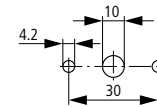
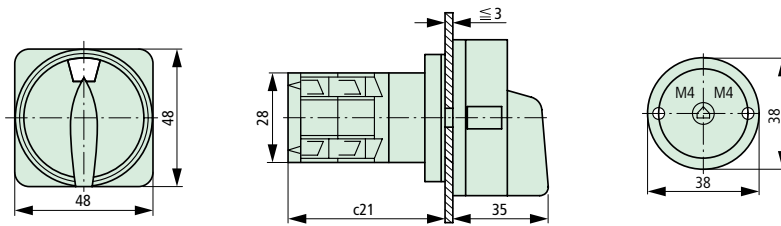


### Control circuit isolators

Lockable using 2 padlocks  $\varnothing$  4 mm or 1 padlock  $\varnothing$  6 mm

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

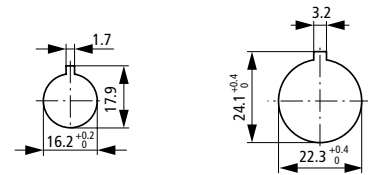
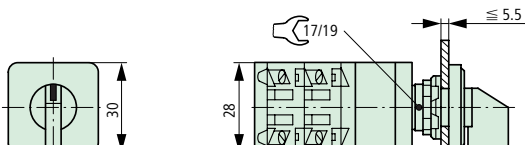
Drilling dimensions



### Centre mounting

TM-.../EZ

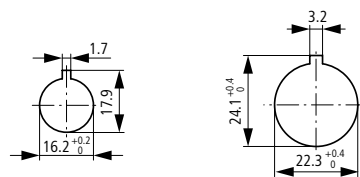
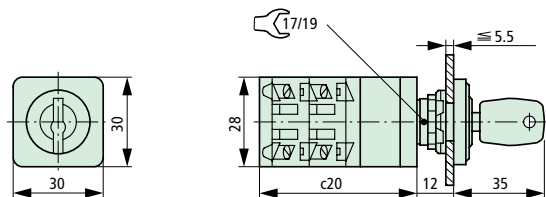
Drilling dimensions<sup>1)</sup>



### Centre mounting with key operation

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

Drilling dimensions<sup>1)</sup>

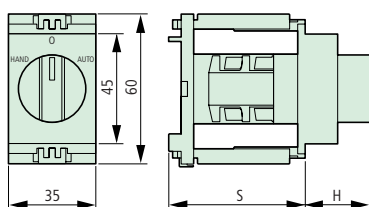


Type	c20	c21
TM-1...	39	42
TM-2...	51	54
TM-3...	63	66
TM-4...	75	
TM-5...	87	
TM-6...	99	
TM-7...	111	
TM-8...	123	

Depth of one contact unit: 12 mm

### Service distribution board mounting

TM-.../IVS



Type	S	H
TM-1...	44	21
TM-2...	46	26.5

Depth of one contact unit: 12 mm

### Notes

<sup>1)</sup> Drilling dimension options: 16.2 mm = use without adapter  $\triangle$  RMQ16; 22.3 mm = adapter required  $\triangle$  RMQ-Titan



## P..., T5..., P7 Safety Switches

### Engineering Notes

Maintenance and safety switches have the same electrical function. They are designed to isolate electrical installations (loads) safely from the mains while maintenance work or repairs are being carried out, thereby ensuring that no hazard arises to personnel, machinery or product. The safety switch is an additional, enclosed main switch = isolator for an individual electrical load, and can be fitted directly next to the motor or the electrical load, ensuring that work on them can be carried out safely provided the 5 safety rules to VDE 0105 are observed. This is of special importance if there is any possibility whatsoever of the main switch being wrongly identified.

#### Application

By securing the switch in the Off position with his own padlock (up to three can be fitted), the fitter/ electrician can protect himself against the possibility of any other person switching On the machine without authority.

Maintenance switches are merely additional, enclosed main switches with a padlocking facility. Such switches can be found on Pages 07/012–015 or 07/024–025 of this catalogue.

#### Features

Safety switches are housed in insulated enclosures as standard and bear the inscription "Safety switch" on a bright orange label. Labels in other languages are available.

Switches to be used for Emergency-Stop switching have a special red handle and a yellow locking collar in accordance with STOP category 0 to IEC/EN 60204.

If the switch is not admissible for use as an Emergency-Stop switch, both parts are grey for P7 switch-disconnectors (Type suffix "-GR") or black for T and P switches (Type suffix "-SW"). The cover and handle are interlocked when a padlock is in place.

#### Selection

Switches must be selected according to the following criteria:

- 1) The motor switching capacity, where the switch is fitted in such a way that the operator may use it for operational On and Off switching.
- 2) The motor rating applies for 3 poles as standard. Where the motor rating is divided between 6 poles, such as for a motor with star-delta starting, the 1.73 fold rating can be controlled with a 6-pole switch.
- 3) The uninterrupted current, where the switch has a load-shedding contact (LA). 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 in the circuit takes over the switching capacity, and the maintenance/safety switch operates at zero load. When switching On, the LA closes later than or at the same time as the main contacts. With T and P switches, this is achieved by the auxiliary make contact, with P... switches, it is achieved by series connection of the early-make auxiliary contact (VHI) and a standard auxiliary contact (NHI).

- 4) The uninterrupted current, provided that the switch is safely prevented from switching under load.
- 5) This can be achieved for example by padlocking the handle (which may need to be changed accordingly) in the On position. This is not admissible for switches with a red/yellow handle.

#### Old Type/New Type

Old Type	New Type
P3-63/I-SI(-SW)(+HI..)	P3-63/I4-SI(-SW)(+HI..)
P3-63/I-SI(-SW)+N-P3	P3-63/I4-SI(-SW)+N-P3
P3-63/I-SI(-SW)+N+HI11	P3-63/I4-SI(-SW)+N+HI11
T5B-3-8342/I-SI(-SW)	T5B-3-8342/I4-SI(-SW)
T5B-4-.../I-SI(-SW)	T5B-4-.../I4-SI(-SW)
P3-63/I-SI(-SW)(+HI..)	P3-63/I4-SI(-SW)(+HI..)
P3-63/I-SI(-SW)+N-P3	P3-63/I4-SI(-SW)+N-P3
T5-.../CI19/SIH	T5-.../I5-SI
T5-3-8342/CI19/SIH	T5-3-8342/I5-SI
T5-.../CI19/SIH	T5-.../I5-SI

Technical data for P switch-disconnectors → Page 07/092

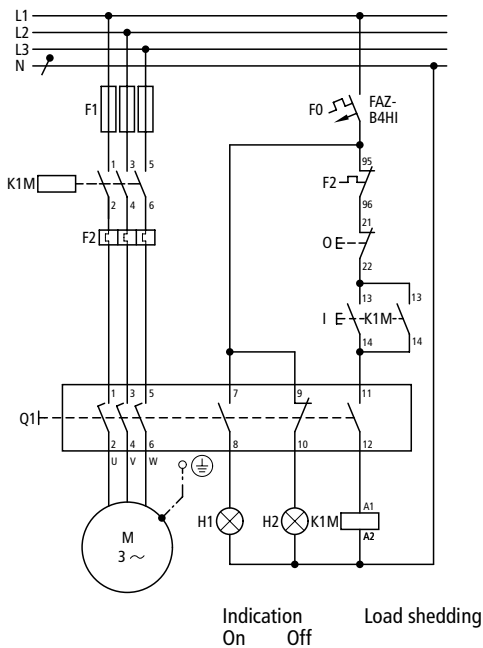
Technical data for T5(B) switch-disconnectors → Page 07/090

Dimensions for P → Page 07/104

Dimensions for T5(B) → Page 07/101

P7 Safety Switches 63 A – 250 A → Page 10/016

### Safety switch with load shedding and indication



## T Rotary Switches, TM Mini Rotary Switches

### Ordering of Non-Standard Contact Sequences

#### Key to type references

T.....-...../.....+.....

Switch size	Number of contact units (2 contacts per contact unit)		Contact sequence number	Mounting form	Accessories
	Max. units	Max. contacts	With manufacturing country identifier. For initial order enclose completed form (see next Page). Contact sequence number is issued by factory. For subsequent orders, Type suffix is sufficient.	<ul style="list-style-type: none"> <li>• Mounting form /E</li> <li>• Centre mounting /EZ (for T0, T3)</li> <li>• Surface mounting /I...<sup>1)</sup></li> <li>• Service distribution board mounting /IVS (for T0)</li> <li>• Rear mounting /Z</li> <li>• Flush mounting main switches .../EA/SVB<sup>2)</sup></li> <li>• Surface mounting main switches /I.../SVB</li> <li>• Rear mounting main switches /V/SVB<sup>2)</sup></li> <li>• Mounting forms for TM: /E, /EZ or /IVS</li> </ul>	→ Page 07/056 – 071 State in full with every order! For TM.../EZ only +EZ/S... is possible → Page 07/083
T0	11	22			
T3	11	22			
T5B	10	20			
T5	10	20			
TM	8	16			

#### Design notes for non-standard contact sequences

##### Contact sequence

The Form FO 2 (see next Page) makes it easy to determine the contact sequence.  
Master copy → Page 07/112

##### Switching angles

30, 45, 60, 90°

Preferred angle: 60°

For On/Off switches: 90°

For main switches: 90° as FS 908 Page → 07/054

Interruption of contact between 2 switch positions (On-Off-On) not admissible on T0; or on T3 and TM at switching angles of 30°, 45°; or on T5(T5B) at a switching angle of 30°

##### Terminal markings

TM switches have consecutive terminal markings, beginning with 1.

##### Spring-return

The switching movement is limited by a stop. The switch returns under spring pressure to the last indexed position. Where a switch has spring-return from both directions, a maximum of three positions can be traversed.

The return angle is < 1/2 switching angle. A maximum of 6 contacts can be returned at the same time.

##### Fleeting contacts

Duration of contact depends primarily on the speed of actuation. If a contactor is to be actuated by means of fleeting contact, the switching angle of the rotary switch must not be less than 60°, or the switching pulse may be too short. Fleeting contacts always act in **both** directions.

##### Complete rotation

Possible only with a total switching angle of 360°. Unrestricted rotation in either direction. The number of switch positions multiplied by the switching angle must equal 360°. TM with 12 positions every 30° is possible only with complete rotation, not with stop.

##### Number of contact units

Number of contacts = Round up to nearest whole  
2

Each contact chamber = contact unit has 1 or 2 contacts, each operated by a cam.

On T5(B) one cam operates both contacts.

Consequently:

Where the total switching angle is **less than 180°**, the contacts can be operated **independently** of one another. At switching angles of 180° and above, two contacts per chamber are possible only if their switching sequences are the same, but offset by 180° (e.g. T5B-4-8235 step switch).

##### Standard features

As for rotary switches with standard contact sequences

→ Page 07/006, 072

Notes	Page
Technical data	07/090
Dimensions	07/096

##### Available mounting forms

T0	07/084
T3	07/085
T5B	07/086
T5	07/087
TM	07/088

#### Notes

The sequence of the contacts may be changed if technical reasons so dictate.

For non-standard switches it is preferable to arrange the links so that terminals whose numbers differ by 4 are linked with one another, e.g. terminals 1-5-9; 2-6-10; 3-7-11- or 4-8-12-. Such links can be removed (also applies for standard switches), whereas links 1-3, 2-4, 5-7, 6-8 cannot be removed because they are situated within the switch.

Links between an even number and an odd number (e.g. 2-3) cannot be provided ex-factory, and must be supplied by the user.

<sup>1)</sup> T0-.../11 up to 4 contact units

T3-.../12 up to 5 contact units

<sup>2)</sup> T0 up to 8 contacts = 4 contact units,

T3 up to 12 contacts = 6 contact units

**T Rotary Switches, TM Mini Rotary Switches**  
**Ordering of Non-Standard Contact Sequences**

Rotary Switches  
Switch-Disconnectors

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Es ist möglich, dass sich aus technischen Gründen die Reihenfolge der Kontakte ändert.  
 The sequence of contacts may be changed for technical reasons.  
 L'ordre des contacts peut être modifié pour des raisons techniques.

Key withdrawability with ..S-T0 or SVA-T3:  
 Pos. 1: Key withdrawable  
 Pos. 2: Key withdrawable  
 Pos. 3: Key withdrawable  
 Pos. 4: Key not withdrawable:  
 } With SVA-T3, it is possible to switch between Pos. 1 and 2 even after the key has been withdrawn.

# T Rotary Switches, TM Mini Rotary Switches

## Ordering of Non-Standard Contact Sequences

Rotary Switches  
Switch-Disconnectors

Es ist möglich, dass sich aus technischen Gründen die Reihenfolge der Kontakte ändert. The sequence of contacts may be changed for technical reasons. L'ordre des contacts peut être modifié pour des raisons techniques.



Erstbestellung für Nockenschalter T Kombinationen  
Initial order for a T rotary switch combination  
Première commande de combinaisons de Commutateur T à cames

Auftrags-Nr.: Order number: N° de commande :	Position: Item: Poste :	Büro: Office: Bureau :	Bearbeiter: Name: Employé :																																										
Kunde: Customer: Client:	Kundenspez.-Nr.: Customer number: N° client :		Datum: Date: Date :																																										
<b>Hinweis:</b> <b>Note:</b> <b>Note :</b> Die Anzahl der möglichen Kontakte sowie die Kombinationsmöglichkeiten mit den Bauformen entnehmen Sie bitte dem Hauptkatalog. The number of possible contacts as well as possible combinations with mounting forms are shown in the Main Catalogue. Reportez-vous au Catalogue Général pour connaître le nombre maximal de contacts et les possibilités de combinaison selon les modèles.	Stückzahl: Quantity: Quantité :	Schaltwinkel: Switching angle: Angle de rotation :	Type: Type: Référence :																																										
	DM/Stück: DM/each: Prix unitaire :	<input type="checkbox"/> 30 <input type="checkbox"/> 45 <input type="checkbox"/> 60 <input type="checkbox"/> 90	<input type="checkbox"/> TM <input type="checkbox"/> T0 <input type="checkbox"/> T3 <input type="checkbox"/> T5B <input type="checkbox"/> T5	Anzahl Kontakte: No. of contacts: Nombre de contacts :																																									
			Bauform: Mounting form: Modèle :																																										
			<input type="checkbox"/> E <input type="checkbox"/> EA/SVB <input type="checkbox"/> EZ <input type="checkbox"/> I... <input type="checkbox"/> I.../SVB <input type="checkbox"/> IVS <input type="checkbox"/> V/SVB <input type="checkbox"/> X <input type="checkbox"/> Z <input type="checkbox"/> + _____ <input type="checkbox"/> + _____																																										
		Max. characters per switching angle on FS plate Degrees	<input type="checkbox"/> 1 <input type="checkbox"/> 12 <input type="checkbox"/> 2 <input type="checkbox"/> 13 <input type="checkbox"/> 3 <input type="checkbox"/> 14 <input type="checkbox"/> 4 <input type="checkbox"/> 15 <input type="checkbox"/> 5 <input type="checkbox"/> 16 <input type="checkbox"/> 6 <input type="checkbox"/> 17 <input type="checkbox"/> 7 <input type="checkbox"/> 18 <input type="checkbox"/> 8 <input type="checkbox"/> 19 <input type="checkbox"/> 9 <input type="checkbox"/> 20 <input type="checkbox"/> 10 <input type="checkbox"/> 21 <input type="checkbox"/> 11 <input type="checkbox"/> 22																																										
		<table border="1" style="font-size: small;"> <tr> <th></th> <th>TM-E</th> <th>TM-EZ</th> <th>TM-IVS</th> <th>T0(3)</th> <th>T5(B)</th> </tr> <tr> <td>0.180</td> <td>5</td> <td>5</td> <td>6</td> <td>13</td> <td>13</td> </tr> <tr> <td>30, 210, 330</td> <td>8</td> <td>7</td> <td>4</td> <td>8</td> <td>8</td> </tr> <tr> <td>45, 135, 225, 315</td> <td>6</td> <td>5</td> <td>4</td> <td>6</td> <td>7</td> </tr> <tr> <td>60, 120, 240, 300</td> <td>5</td> <td>5</td> <td>3</td> <td>5</td> <td>7</td> </tr> <tr> <td>90, 270</td> <td>5</td> <td>4</td> <td>1</td> <td>4</td> <td>7</td> </tr> <tr> <td>150</td> <td>4</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> </tr> </table>		TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)	0.180	5	5	6	13	13	30, 210, 330	8	7	4	8	8	45, 135, 225, 315	6	5	4	6	7	60, 120, 240, 300	5	5	3	5	7	90, 270	5	4	1	4	7	150	4	4	4	8	8	
	TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)																																								
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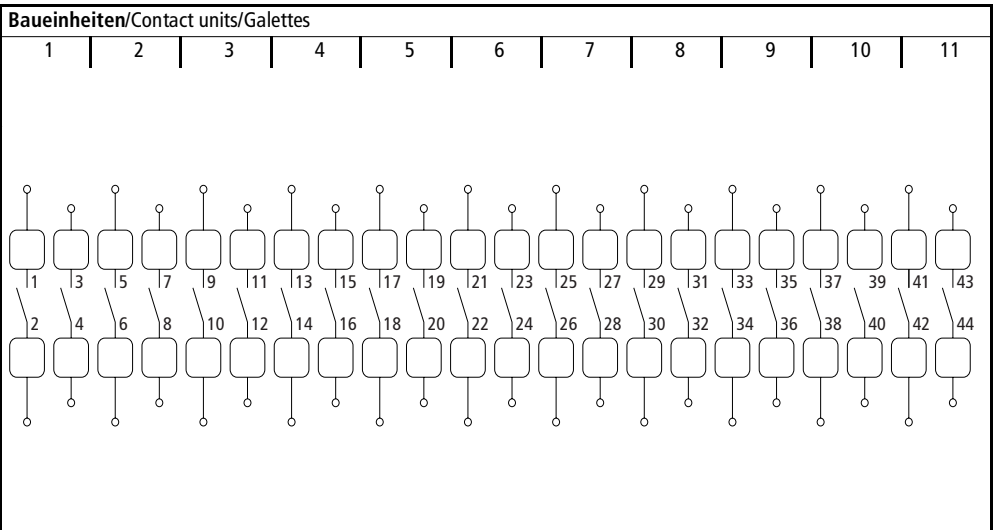
**Frontschild Nr.**  
Front Plate No.  
Plastron N°

**FS**

**Rundschtaltung**  
Complete rotation  
Rotation totale

**autom. Rückzug**  
Spring-return  
Retour autom.

**Beschriftung**  
Marking/Repérage



Grad Degrees/Degrés	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43
270	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44
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225																						
240																						


Schlüssel abziehbar  
Key withdrawable  
Retrait de la clé

Typ für Nachbestellungen (vom Werk auszufüllen)  
Type for re-ordering (to be filled in by Factory)  
Référence pour commandes ultérieures (à compléter par l'usine)

T \_\_\_\_\_

**T Rotary Switches, TM Mini Rotary Switches**  
 Ordering of Non-Standard Front Plates

Rotary Switches  
Switch-Disconnectors

 Erstbestellung von Sonderfrontschildern Initial ordering of non-standard front plates Première commande de plastrons spéciaux		
Auftrags-Nr.: Order number: N° de commande :	Position: Item: Poste :	
Büro: Office: Bureau :	Bearbeiter: Name: Employé :	
Kunde: Customer: Client:	Kundenspez.-Nr.: Customer number: N° client :	
Stückzahl: Quantity: Quantité :	DM/Stück: DM/each: Prix unitaire :	Datum: Date: Date :

**Non-standard front plates**

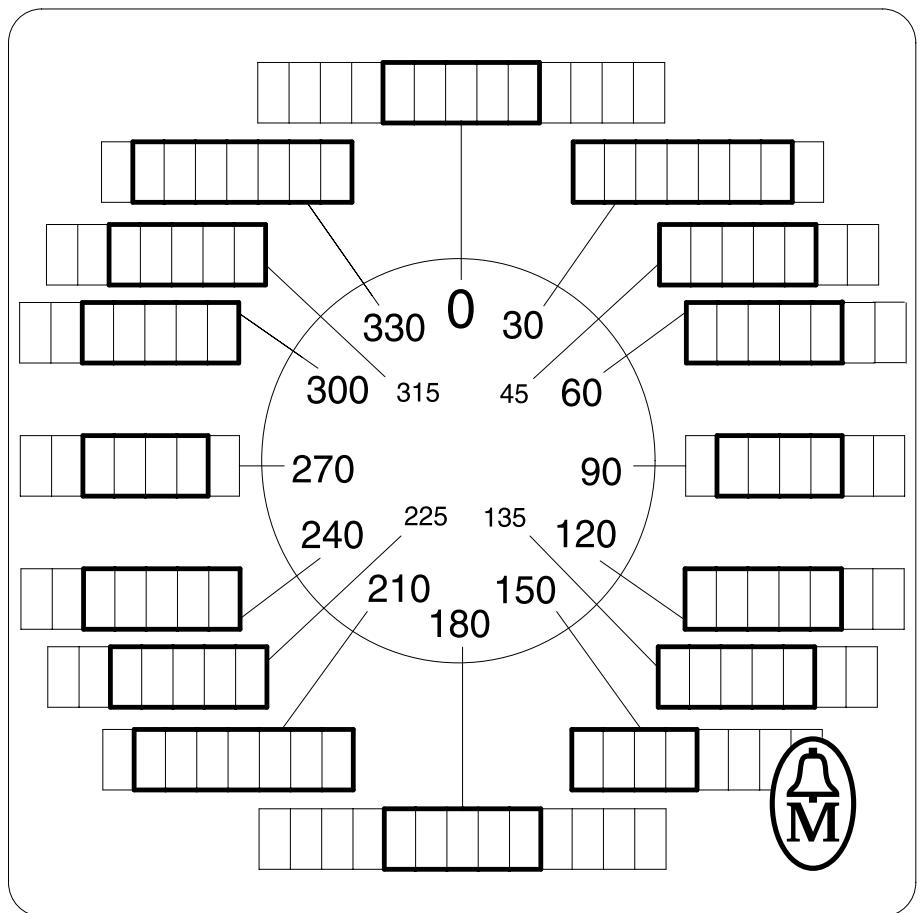
Marking:  
 Front plate with black lettering

**Insert text**

Note the maximum number of characters allowed outside the marked areas!

**Type**

- FS-SOND-T0 (T3, P1)**  
 Height of letters  
 ≦ 2 characters      4 mm  
 ≧ 2 characters      3 mm
- FS-SOND-P3 (T5B, T5)**  
 Height of letters  
 ≦ 2 characters      8 mm  
 ≧ 2 characters      5 mm
- FS-SOND-TM-E**  
 **FS-SOND-TM-EZ**  
 Height of letters  
 ≦ 2 characters approx.      3.5 mm  
 ≧ 2 characters      3 mm



For P1 and P3 complete only the 270° and 0° positions

**Max. number of characters possible**

Item	TM-E	TM-EZ	T0/P1	T5/P3
Degrees				
0, 180	5	5	13	13
30, 210, 330	8	7	8	8
45, 135, 225, 315	6	5	6	7
60, 120, 240, 300	5	5	5	7
90, 270	5	4	4	7
150	4	4	8	8

**Dimensions**

Type	Size of front plate
TM-.../E	29 × 29 mm (for frame sizes 30 × 30)
TM-.../EZ(-...)	29 × 29 mm (for frame sizes 30 × 30)
T0, T3, P1	45 × 45 mm (for frame sizes 48 × 48)
P3, T5, T5B	84 × 84 mm (for frame sizes 88 × 88)

Typ für Nachbestellungen (vom Werk auszufüllen)  
 Type for re-ordering (to be filled in by Factory)  
 Référence pour commandes ultérieures (à compléter par l'usine)

**FS** .....