

T Rotary Switches, P Switch-Disconnectors

[查询"N-PIZ"供应商](#)

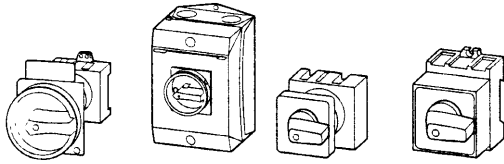
Rotary Switches
Switch-Disconnectors



T Rotary Switches, P Switch-Disconnectors

Overview

T rotary switches, P switch-disconnectors



	Page
Overview of functions	07/002
Technical overview	07/004
System overview	07/006
Key to type references, modular system	07/010
On-Off switches	
Main switches	07/012
On-Off switches	07/016
Safety switches	07/022
Control switches	
Changeover switches	07/024
Reversing switches	07/030
Star-delta switches	07/030
Multi-speed switches	07/032
Step switches	07/034
On-Off switches	07/038
Hand/Auto switches	07/040
On-Off switches, spring-return	07/042
Universal control switches	07/044
Coding switches	07/044
Series switches	07/044
Instrument selector switches	07/046
Switches with locking arrangements	
Panic switches	07/048
On-Off switches	07/048
Hand/Auto switches	07/050
Accessories	
Front plates	07/052
Key operation	07/056
Accessories	07/058
Non-standard switches	
T0 rotary switches	07/082
T3 rotary switches	07/083
T5B rotary switches	07/084
T5 rotary switches	07/085
Contact sequences	07/087
Technical data	07/088
Dimensions	07/095
Ordering of non-standard switches	07/108

TM mini rotary switches

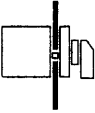
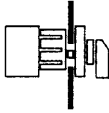
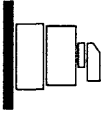
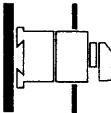
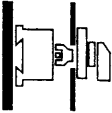


	Page
Overview of functions	07/002
Technical overview	07/004
System overview	07/070
Key to type references, modular system	07/010
On-Off switches	
Control circuit isolators	07/072
On-Off switches	07/072
Control switches	
Changeover switches	07/073
Reversing switches	07/080
Step switches	07/075
On-Off switches	07/079
Hand/Auto switches	07/074
On-Off switches, spring-return	07/079
Coding switches	07/080
Group switches	07/078
Accessories	
Front plates	07/081
Key operation	07/081
Non-standard switches	
TM mini rotary switches	07/085
Technical data	07/093
Dimensions	07/094
Ordering of non-standard switches	07/108



T Rotary Switches, P Switch-Disconnectors

Overview of Functions

Function	Flush mounting .../E...	Centre mounting .../EZ...	Surface mounting .../I...	Service distribution board mounting .../IVS...	Rear mounting .../Z...
					
On-Off switches					
Main switches Maintenance switches For use as Emergency-Stop devices ¹	→ 07/012		→ 07/013		→ 07/013
Main switches Maintenance switches with auxiliary contacts For use as Emergency-Stop devices ¹	→ 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 → 07/072	→ 07/017 → 07/072	→ 07/017	→ 07/017	→ 07/017
On-Off switches with black thumb-grip with auxiliary contacts	→ 07/018	→ 07/019	→ 07/019	→ 07/019	→ 07/019
On-Off switches For use as Emergency-Stop devices ¹	→ 07/020		→ 07/021	→ 07/021	
Control circuit isolators	→ 07/072				
Safety switches 25 – 100 A For use as Emergency-Stop devices ¹			→ 07/022		
Safety switches 25 – 100 A			→ 07/023		
Safety switches 63 – 200 A			→ 10/022		
Safety switches 250 – 315 A			→ 10/040		

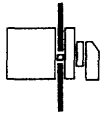
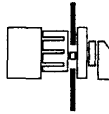
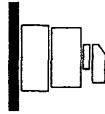
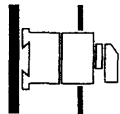
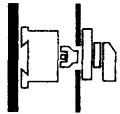
Notes

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

T Rotary Switches, P Switch-Disconnectors

Overview of Functions

[德海NPLZ®供应商](#)

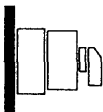
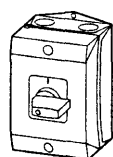
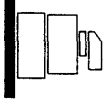
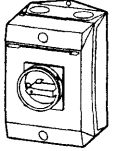
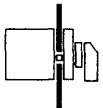
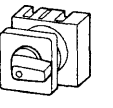
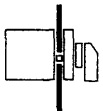
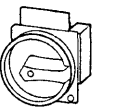
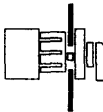
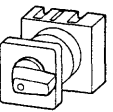
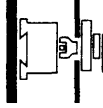
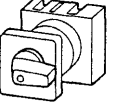
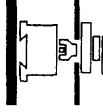
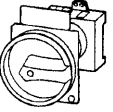
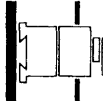
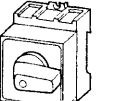
Function	Flush mounting .../E...	Centre mounting .../EZ...	Surface mounting .../I...	Service distribution board mounting .../IVS...	Rear mounting .../Z...
					
Control switches					
Changeover switches Mains transfer-, group switches	→ 07/024 → 07/073	→ 07/025 → 07/073	→ 07/025	→ 07/025	→ 07/025
Reversing switches	→ 07/030 → 07/080	→ 07/031 → 07/080	→ 07/031	→ 07/031	→ 07/031
Star-delta switches	→ 07/030	→ 07/031	→ 07/031	→ 07/031	→ 07/031
Multi-speed switches	→ 07/032	→ 07/033	→ 07/033	→ 07/033	→ 07/033
Step switches	→ 07/034 → 07/075	→ 07/034 → 07/075	→ 07/035	→ 07/035	→ 07/035
On-Off switches, changeover switches	→ 07/038 → 07/079	→ 07/038 → 07/079	→ 07/039	→ 07/039	→ 07/039
Hand/Auto switches	→ 07/040 → 07/074	→ 07/040 → 07/074	→ 07/041	→ 07/041	→ 07/041
Spring-return switches	→ 07/042 → 07/079	→ 07/042 → 07/079	→ 07/043	→ 07/043	→ 07/043
Universal control switches	→ 07/044	→ 07/044	→ 07/045	→ 07/045	→ 07/045
Coding switches	→ 07/044 → 07/080	→ 07/044 → 07/080	→ 07/045	→ 07/045	→ 07/045
Series switches	→ 07/044	→ 07/044	→ 07/045	→ 07/045	→ 07/045
Instrument selector switches (voltage)	→ 07/046	→ 07/046	→ 07/047	→ 07/047	→ 07/047
Instrument selector switches (current)	→ 07/046	→ 07/046	→ 07/047	→ 07/047	→ 07/047
Switches with locking arrangements	→ 07/048		→ 07/049		→ 07/049

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
Rated operational current	AC-21	380 – 440 V, 3~	A	10	12	25	63
	AC-15	220 – 240 V	A	2,5	6	10	16
		380 – 415 V	A	1,5	4	6	6
Rated uninterrupted current			A	10	20	32	63

Mounting

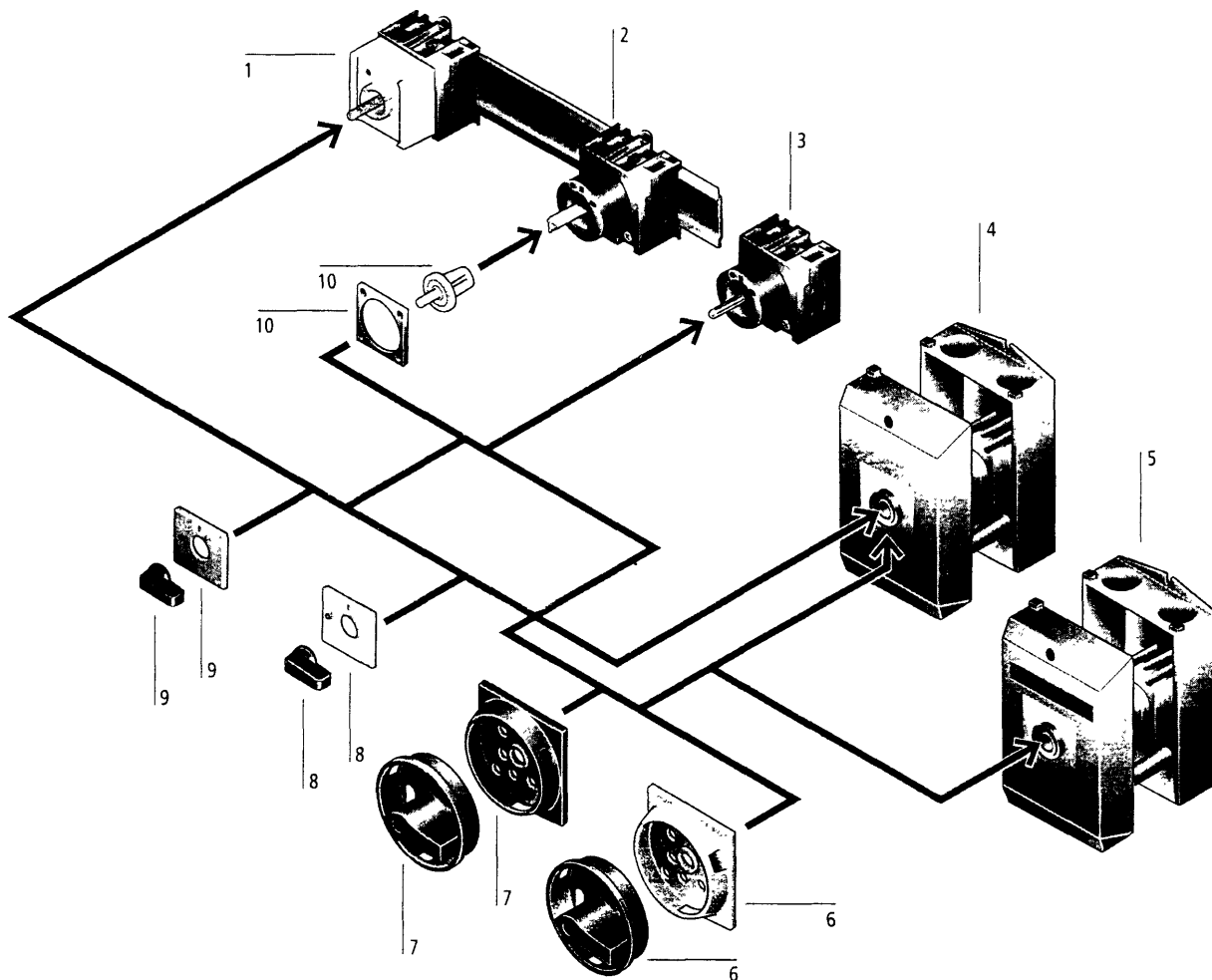
		Type	Degree of protection				
Surface mounting ¹⁾							
		.../I ...	IP 65	–	●	●	●
		.../I 45/...	IP 65	–	–	–	–
		.../I 48/...	IP 65	–	–	–	–
Surface mounting main switch ¹⁾							
		.../I .../SVB...	IP 65	–	●	●	●
Flush mounting							
		.../E...	Front IP 65	●	●	●	●
Flush mounting main switch/flush mounting control circuit isolator							
		.../EA/SVB...	Front IP 65	–	●	●	●
		TM.../E/SVB	Front IP 65	●	–	–	–
Centre mounting							
		.../EZ...	Front IP 65	–	●	●	–
		TM.../EZ	Front IP 65	●	–	–	–
Rear mounting							
		.../Z...	Front IP 65	–	●	●	●
Rear mounting main switch							
		.../N/SVB...	Front IP 65	–	●	●	●
Service distribution board mounting							
		.../IVS...	Front IP 30	–	●	–	–

Notes

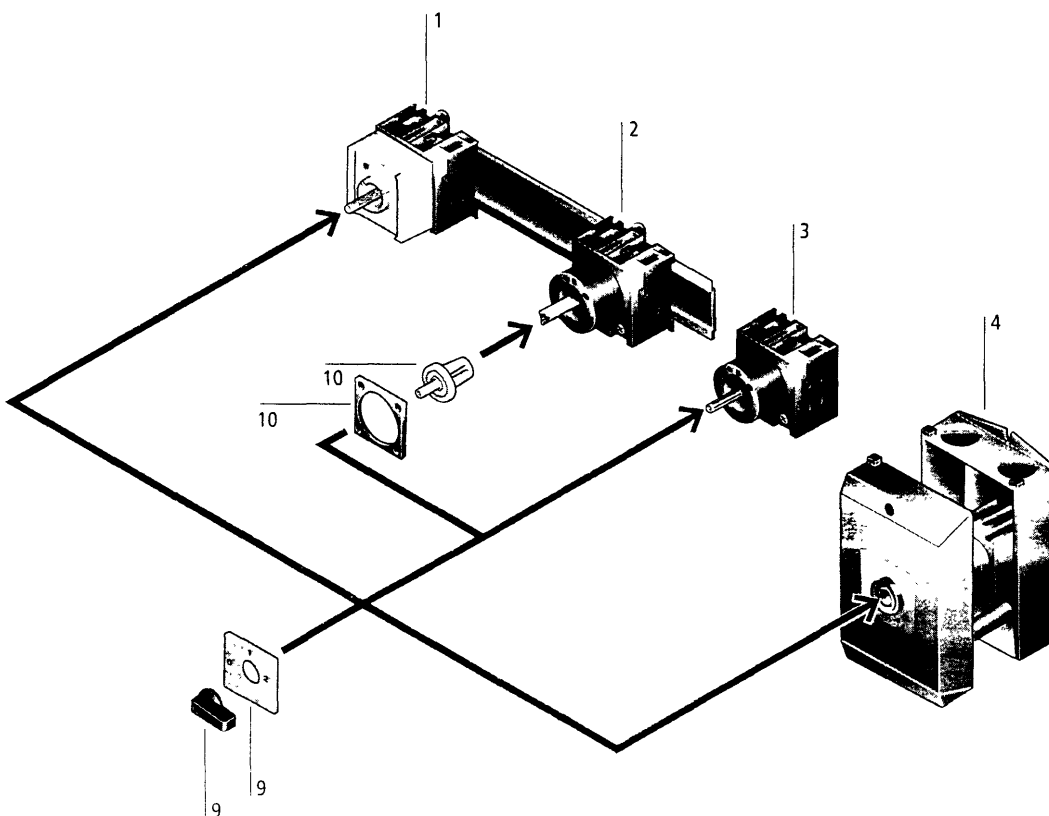
¹⁾ Enclosures designed for metric cable glands to EN 50 262
Cable glands → Page 07/068

查询"N-PIZ"供应商
T Rotary Switches
System Overview

T0, T3, T5B, T5 On-Off switches



T0, T3, T5B, T5 control switches



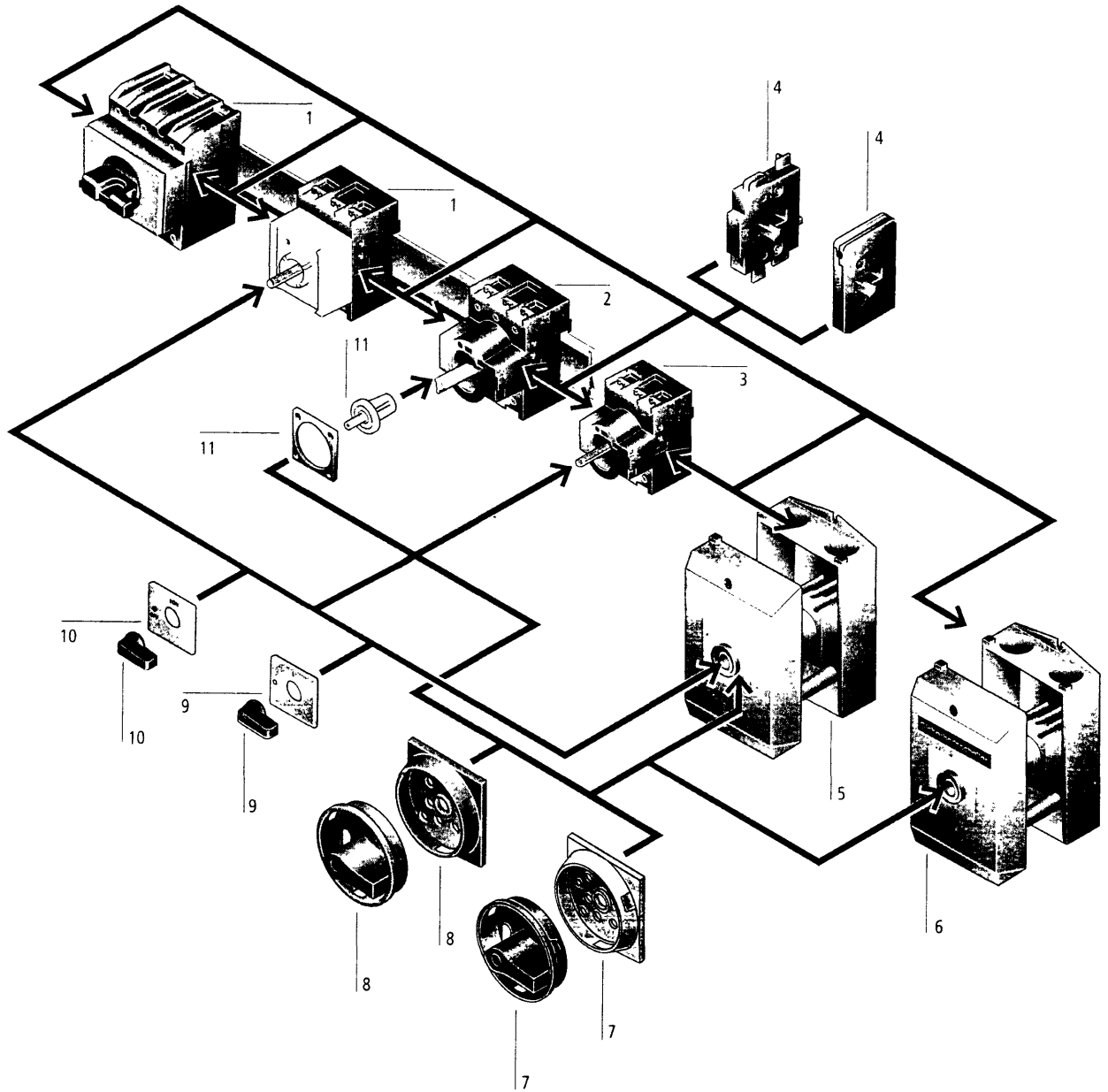
T Rotary Switches

System Overview **上海"NPZ"供应商**

Distribution board mounting (.../IVS) 1	Centre mounting (.../EZ) 3	Main switch (assembly kit) For use as Emergency-Stop device 6
Front IP 30	Front IP 65	To IEC/EN 60 204-1
For snap fitting on top-hat rail to EN 50 022	Mounting in a standard 22.3 mm aperture to IEC/EN 60 947-5-1	With red rotary handle and yellow locking collar
Flush mounting	Centre fixing means 'one-man' fitting	Lockable in the 0 (Off) position
– Up to three contact units in a service distribution board (45 mm mounting depth)	→ Page 07/017	→ Page 07/060
– Up to 11 contact units in a control panel		
→ Page 07/017		
Rear mounting (.../Z) 2	Surface mounting (.../I...) 4	Main switch (assembly kit) 7
Front IP 65	IP 65 	With black rotary handle and locking collar
Secure by snap fitting or screw fixing (T0 or T3)	Insulated PE terminal	Lockable in the 0 (Off) position
For snap fitting on top-hat rail to EN 50 022	Enclosures designed for metric cable glands to EN 50 262	→ Page 07/060
Coupling drive in door or cover	→ Page 07/017	
Connection from front		
→ Page 07/017	Surface mounting main switches (.../I...) 4	Thumb-grip for use in Emergency-Stop devices 8
Rear mounting main switches (.../V/SVB) 2	IP 65 	To IEC/EN 60 204-1
Front IP 65	To IEC/EN 60 204 and IEC/EN 60 947 Part 3, up to 8 contacts for T0..., and up to 10 contacts for T3	Red thumb-grip with yellow front plate
To IEC/EN 60 204 and IEC/EN 60 947 Part 3, up to 8 contacts for T0..., and up to 12 contacts for T3	Lockable in the 0 (Off) position using up to three padlocks	→ Page 07/060
With door interlock in I (On) position	Enclosures designed for metric cable glands to EN 50 262	Thumb-grip 9
→ Page 07/013	→ Page 07/013	Black thumb-grip with silver-coloured front plate
Flush mounting (.../E) 3	Safety switches (.../I...) 5	→ Page 07/060
Front IP 65	IP 65 	Coupling drive 10
Fitting and connection from rear	Insulated PE terminal	Includes push-fit shaft
Terminal: Pozidriv screw	With cover fixing in the 0 (Off) position	For retrofit conversion of T0(T3)-.../XZ basic switches to rear mounting form
Finger- and back-of-hand proof	Lockable in the 0 (Off) position using up to three padlocks	Spare part for T0(T3)/(P1)-.../Z
Type T8 with extension terminals as standard	Enclosures designed for metric cable glands to EN 50 262	For retrofit conversion of T5(B)-.../E flush mounting switches to rear mounting form
→ Page 07/016	With 'Safety Switch' label Colour: orange	Spare part for T5(B)-.../Z
Flush mounting main switches (.../EA/SVB) 3	For Switzerland: comply with the Swiss Accident Insurance Institute Directive	→ Page 07/064
Front IP 65	→ Page 07/022	
To IEC/EN 60 204 and IEC/EN 60 947 Part 3, 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



P Switch-Disconnectors

System overview

Distribution board mounting (.../IVS) 1
Front IP 30
Fitting dimensions to DIN 43 880
For snap fitting on top-hat rail to EN 50 022
Space requirement
P1, 3-pole: 3 width units
P3, 3-pole: 4 width units
P3-.../IVS can be locked in 0 (Off) position by means of padlocking feature

→ Page 07/017

Rear mounting (.../Z) 2
Front IP 65
Can be secured by snap fitting or screw fixing
For snap fitting on top-hat rail to EN 50 022
Coupling drive in door or cover
Connection from front
2 add-on modules can be fitted (or retrofitted)

→ Page 07/017

Rear mounting main switches (.../I/SVB) 2
Front IP 65
To IEC/EN 60 204 and IEC/EN 60 947 Part 3
With door interlock in I (On) position
Maintenance key for commissioning or servicing
Lockable in the 0 (Off) position using up to three padlocks
2 add-on modules can be fitted (or retrofitted)

→ Page 07/013

Flush mounting (.../E) 3
Front IP 65
Fitting and connection from rear
Terminal:
Pozidriv screw
Finger- and back-of-hand proof
2 add-on modules can be fitted (or retrofitted)

→ Page 07/016

Flush mounting main switches (.../EA/SVB) 3
Front IP 65
To IEC/EN 60 204 and IEC/EN 60 947 Part 3
N terminal and PE terminal
Lockable in the 0 (Off) position using up to three padlocks
2 add-on modules can be fitted (or retrofitted)

→ Page 07/012

Centre mounting (.../EZ) 3
Front IP 65
Mounting in a standard 22.3 mm aperture to IEC/EN 60 947-5-1
Centre fixing means 'one-man' fitting

→ Page 07/017

Add-on modules 4
Switched neutral (early-make contact)
HI 11 auxiliary contact = 1 make contact + 1 break contact
Finger-proof
Auxiliary make contact: always connected as load-shedding contact (late-make, early-break)

→ Page 07/062

Surface mounting (.../I...) 5
IP 65 
Insulated PE terminal
Add-on modules for retrofitting:
P1: + 1, P3: + 2
Enclosures designed for metric cable glands to EN 50 262

→ Page 07/017

Surface mounting main switches (.../I...) 5
IP 65 
Insulated PE terminal
To IEC/EN 60 204 and IEC/EN 60 947 Part 3
Lockable in the 0 (Off) position using up to three padlocks
Add-on modules for retrofitting:
P1: + 1, P3: + 2
Enclosures designed for metric cable glands to EN 50 262

→ Page 07/013

Safety switches (.../I...-SI) 6
IP 65 
Insulated PE terminal
With cover fixing in the 0 (Off) position
Lockable in the 0 (Off) position using up to three padlocks
With 'Safety Switch' label
Colour: orange
Enclosures designed for metric cable glands to EN 50 262
For Switzerland: comply with the Swiss Accident Insurance Institute Directive

→ Page 07/022

Main switch (assembly kit) For use as Emergency-Stop device 7
To IEC/EN 60 204 Part 1
With red rotary handle and yellow locking collar
Lockable in the 0 (Off) position

→ Page 07/060

Main switch (assembly kit) 8
With black rotary handle and locking collar
Lockable in the 0 (Off) position

→ Page 07/060

Thumb-grip for use in Emergency-Stop devices 9
To IEC/EN 60 204 Part 1
Red thumb-grip with yellow front plate

→ Page 07/060

Thumb-grip 10
Black thumb-grip with silver-coloured front plate

→ Page 07/060

Coupling drive 11
Includes push-fit shaft
For retrofit conversion of T0(T3)-.../XZ basic switches to rear mounting form
Spare part for T0(T3)/(P1)-.../Z
For retrofit conversion of T5(B)-.../E flush mounting switches to rear mounting form
Spare part for T5(B)-.../Z

→ Page 07/064

T Rotary Switches, P Switch-Disconnectors

Key to type references Modular System

Rotary switches are suitable for a number of different switching and control functions, e.g. as On-Off switches, main/Emergency-Stop switches, main circuit/control circuit switches, instrument selector switches.

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

The contact chambers (contact units) have one or two contacts.

Catalogue K115 shows over 800 standard contact sequences (Please enquire).

Examples of the most important standard contact sequences are shown on the following pages.

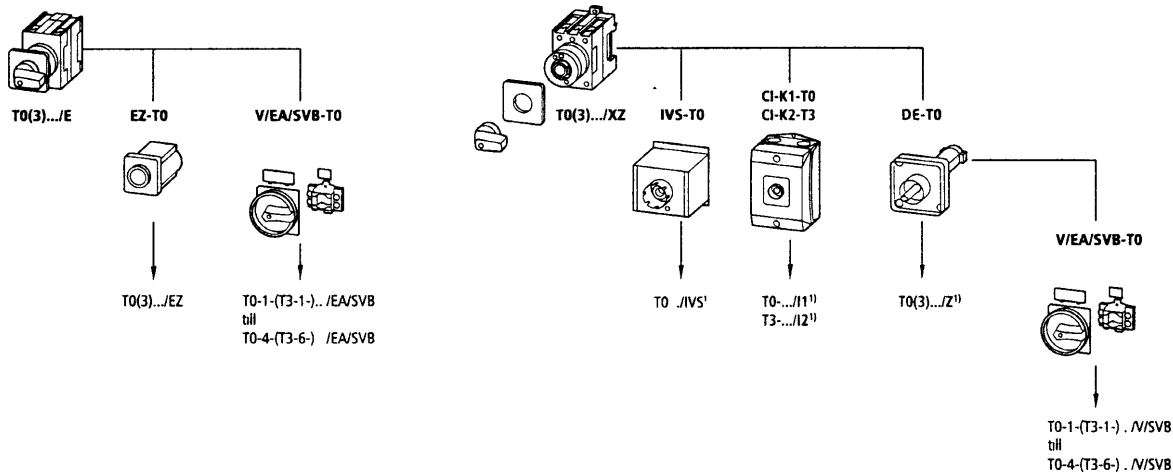
T rotary switches and P switch-disconnectors are manufactured without PCB, CFC, asbestos or silicon. The contacts are cadmium-free.

T0 and T3 rotary switches

Key to type references

Switch size T0 or T3	Number of contact chambers = contact units	Contact sequence number	Mounting form → Page 07/004	Front plate type (if different from list type) → Page 07/052	Accessories → Page 07/054
-------------------------	---	----------------------------	--------------------------------	---	------------------------------

Using the modular system to convert the mounting form of T0 and T3

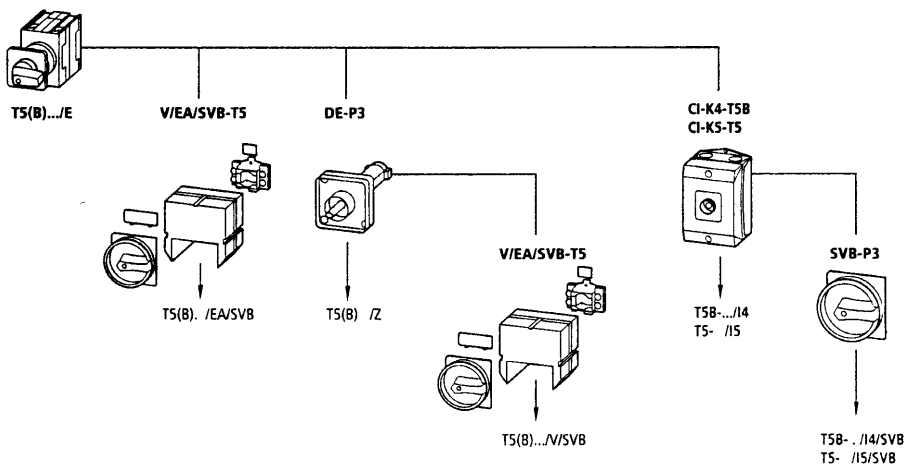


T5(B) rotary switches

Key to type references

Switch size T5(B)	Number of contact chambers = contact units	Contact sequence number	Mounting form → Page 07/004	Front plate type (if different from list type) → Page 07/052	Accessories → Page 07/052
----------------------	---	----------------------------	--------------------------------	---	------------------------------

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

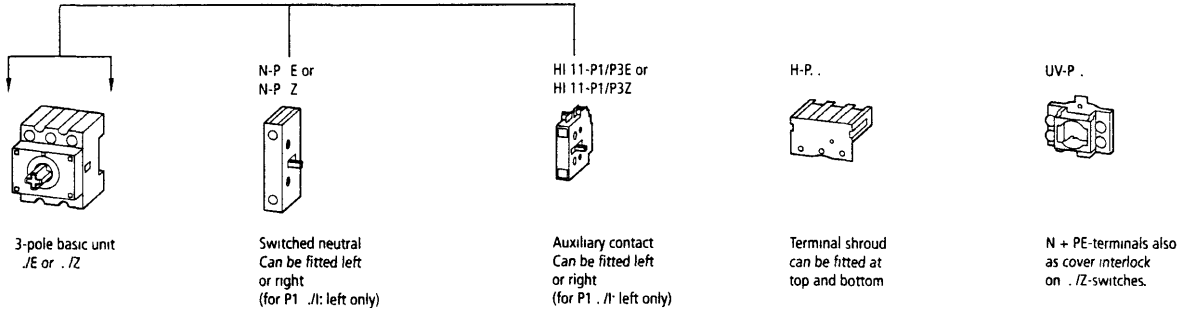
Key to Type References Modular System

P1 and P3 switch-disconnectors

Key to type references

P.....				
↑	↑	↑	↑	↑
Switch size P1 or P3	Rated uninterrupted current	Mounting form → Page 07/005	Type suffix (if required)	Accessories → Page 07/054

Add-on functions provided by modular system



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 stability and safety.

TM mini rotary switches have consecutive terminal marking, starting with 1.

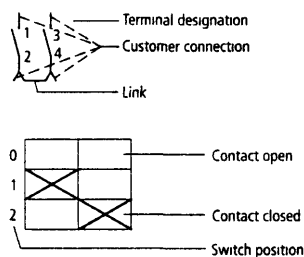
Select TM switches starting from → Page 07/072

Key to type references

TM-.....			
↑	↑	↑	↑
Number of contact chambers = contact units	Contact sequence number	Mounting form → Page 07/072	Accessories → Page 07/081

Circuit diagrams

On pages 07/012 – 051
and 07/072 – 080



Example:
(see also Ordering Example on Page 07/109)

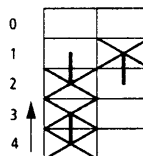


Switch position 1:
Contact 1 – 2 open,
Contact 3 – 4 closed.

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 HzRated uninterrupted current I_u For use as ->
Flush mounting
Front IP 65

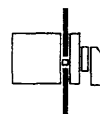
No. of poles



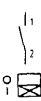
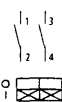
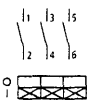
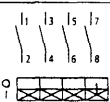
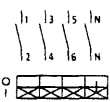
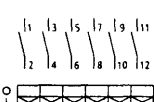
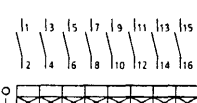
FS 908



AC-3
220 V 380 V 660 V
230 V 400 V 690 V
240 V 440 V

Basic type
For ... insert
mounting formMounting form
Article no.Price
See Price List

Main switches

	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	
				22	37	37	100	P3-100/...	EA/SVB/N 019890	
	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	T5-4-8344/...	EA/SVB 095961	

Standard pack: 1 off

Notes

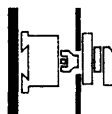
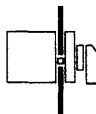
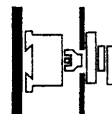
1) To IEC/EN 60 204 Part 1, with red rotary handle and yellow locking collar, lockable in 0 (Off) position

2) With black rotary handle and locking collar, lockable in 0 (Off) position

3) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

Main Switches Maintenance Switches

Emergency-Stop device ¹⁾		Without Emergency-Stop function ²⁾							
Surface mounting ³⁾		Rear mounting		Flush mounting		Surface mounting ³⁾		Rear mounting	
		Front IP 65		Front IP 65				Front IP 65	
									
Mounting form	Price	Mounting form	Price	Mounting form	Price	Mounting form	Price	Mounting form	Price
Article no.	See Price List	Article no.	See Price List	Article no.	See Price List	Article no.	See Price List	Article no.	See Price List
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207145		057856		055483		207146		060229	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207200		007255		068949		207201		004882	
14/SVB		V/SVB		EA/SVB-SW		14/SVB-SW		V/SVB-SW	
207240		094273		094278		207241		094272	
15/SVB		V/SVB		EA/SVB-SW		15/SVB-SW		V/SVB-SW	
207275		097222		097223		207276		097221	
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207143		095824		093451		207144		022330	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207198		019120		016747		207199		021493	
14/SVB		V/SVB		EA/SVB-SW		14/SVB-SW		V/SVB-SW	
207238		094463		094468		207239		094462	
15/SVB		V/SVB		EA/SVB-SW		15/SVB-SW		V/SVB-SW	
207273		098806		098807		207274		098805	
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207147		043619		041246		207148		045992	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207293		055335		048365		207294		050738	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207314		095676		053111		207315		055484	
14/SVB		V/SVB		EA/SVB-SW		14/SVB-SW		V/SVB-SW	
207343		048218		057857		207344		060230	
15/SVB		V/SVB		EA/SVB-SW		15/SVB-SW		V/SVB-SW	
207373		088558		062603		207374		064976	
-		V/SVB		EA/SVB-SW		-		V/SVB-SW	
		015052		067349				069722	
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207151		207405		207401		207152		207406	
12/SVB/N		V/SVB/N		EA/SVB-SW/N		12/SVB-SW/N		V/SVB-SW/N	
207298		086333		083960		207296		088706	
12/SVB/N		V/SVB/N		EA/SVB-SW/N		12/SVB-SW/N		V/SVB-SW/N	
207319		095825		093452		207317		098198	
14/SVB/N		V/SVB/N		EA/SVB-SW/N		14/SVB-SW/N		V/SVB-SW/N	
207349		015144		012771		207346		017517	
15/SVB/N		V/SVB/N		EA/SVB-SW/N		15/SVB-SW/N		V/SVB-SW/N	
207379		024636		022263		207376		027009	
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207159		034128		031755		207160		036501	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207208		076072		073699		207209		078445	
14/SVB		V/SVB		EA/SVB-SW		14/SVB-SW		V/SVB-SW	
207242		092300		092307		207243		092299	
15/SVB		V/SVB		EA/SVB-SW		15/SVB-SW		V/SVB-SW	
207279		096381		096382		207280		096380	
11/SVB		V/SVB		EA/SVB-SW		11/SVB-SW		V/SVB-SW	
207163		014007		008268		207164		008272	
12/SVB		V/SVB		EA/SVB-SW		12/SVB-SW		V/SVB-SW	
207212		020598		008965		207213		008967	
14/SVB		V/SVB		EA/SVB-SW		14/SVB-SW		V/SVB-SW	
207248		092056		092061		207249		092055	
15/SVB		V/SVB		EA/SVB-SW		15/SVB-SW		V/SVB-SW	
207283		095959		095960		207284		095958	

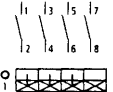
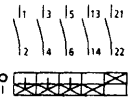
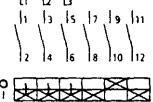
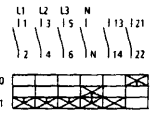
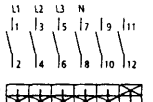
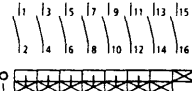
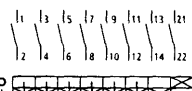
Standard pack: 1 off

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

Rotary Switches
Switch-Disconnectors

Circuit diagram	Front plate no.	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts)	Rated uninterrupted current I_u	For use as -> Flush mounting Front IP 65
		No. of poles		50 - 60 Hz AC-3 220 V 380 V 660 V 230 V 400 V 690 V 240 V 440 V		
	FS 908					
		M	M B	kW kW kW	A	Basic type For ... insert mounting form
						Mounting form Article no.
						Price See Price List

Main switches with auxiliary contacts

	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
				7.5	13	15	32	P1-32/...	EA/SVB/HI11 072567
				15	30	30	63	P3-63/...	EA/SVB/HI11 019891
				22	37	37	100	P3-100/...	EA/SVB/HI11 029383
	3	2	1	3	4	4	20	T0-3-15683/...	EA/SVB 015571
				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
				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
				7.5	11	15	32	P1-32/...	EA/SVB/N/HI11 057859
				15	30	30	63	P3-63/...	EA/SVB/N/HI11 067351
				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
				6.5	12	15	32	T3-3-15681/...	EA/SVB 026240
				15	22	22	63	T5B-3-8901/...	EA/SVB 207420
				18.5	30	30	100	T5-3-8901/...	EA/SVB 207408
	6	1	1	3	4	4	20	T0-4-15682/...	EA/SVB 019892
				6.5	12	15	32	T3-4-15682/...	EA/SVB 054716
				15	22	22	63	T5B-4-15682/...	EA/SVB 207425
				18.5	30	30	100	T5-4-15682/...	EA/SVB 207413
	6	1	1	22	37	37	160	T6-160-6/...	-
				37	55	37	315 ³⁾	T8-3-8342/...	-

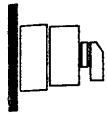
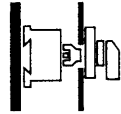
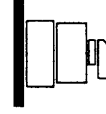
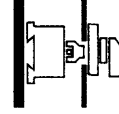
Standard pack: 1 off

Notes

- 1) To IEC/EN 60 204 Part 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 07/068
- 5) Enclosure without flanges

T Rotary Switches, P Switch-Disconnectors

Main Switches, Maintenance Switches

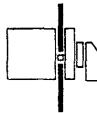
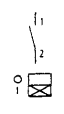
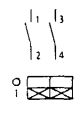
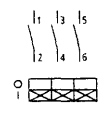
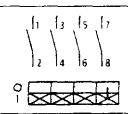
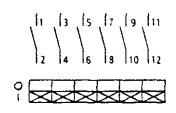
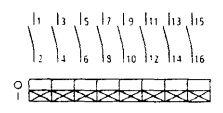
Emergency-Stop device¹⁾Surface mounting⁴⁾totally insulated
IP 65Rear
mounting
Front IP 65Without Emergency-Stop function²⁾Flush
mounting
Front IP 65Surface mounting⁴⁾totally insulated
IP 65Rear mounting
Front IP 65Mounting
form
Article no.Price
See Price
ListMounting
form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
List

11/SVB 207149	V/SVB 086334	EA/SVB-SW 083961	11/SVB-SW 207150	V/SVB-SW 088707
12/SVB/HI11 207297	V/SVB/HI11 095826	EA/SVB-SW/HI11 070194	12/SVB-SW/HI11 207295	V/SVB-SW/HI11 098199
12/SVB/HI11 207318	V/SVB/HI11 015145	EA/SVB-SW/HI11 012772	12/SVB-SW/HI11 207316	V/SVB-SW/HI11 017518
14/SVB/HI11 207348	V/SVB/HI11 024637	EA/SVB-SW/HI11 022264	14/SVB-SW/HI11 207345	V/SVB-SW/HI11 027010
15/SVB/HI11 207378	V/SVB/HI11 034129	EA/SVB-SW/HI11 031756	15/SVB-SW/HI11 207375	V/SVB-SW/HI11 036502
11/SVB 207157	V/SVB 015634	EA/SVB-SW 015600	11/SVB-SW 207158	V/SVB-SW 015664
12/SVB 207206	V/SVB 045224	EA/SVB-SW 042851	12/SVB-SW 207207	V/SVB-SW 047597
11/SVB 207153	V/SVB 043621	EA/SVB-SW 041248	11/SVB-SW 207154	V/SVB-SW 045994
12/SVB 207202	V/SVB 016748	EA/SVB-SW 014375	12/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
14/SVB/N/HI11 207350	V/SVB/N/HI11 072097	EA/SVB-SW/N/HI11 069724	14/SVB-SW/N/HI11 207347	V/SVB-SW/N/HI11 074470
15/SVB/N/HI11 207380	V/SVB/N/HI11 081589	EA/SVB-SW/N/HI11 079216	15/SVB-SW/N/HI11 207377	V/SVB-SW/N/HI11 083962
11/SVB 207155	V/SVB 091081	EA/SVB-SW 088708	11/SVB-SW 207156	V/SVB-SW 093454
12/SVB 207204	V/SVB 030986	EA/SVB-SW 028613	12/SVB-SW 207205	V/SVB-SW 033359
14/SVB 207244	V/SVB 207422	EA/SVB-SW 207421	14/SVB-SW 207245	V/SVB-SW 207423
15/SVB 207277	V/SVB 207410	EA/SVB-SW 207409	15/SVB-SW 207278	V/SVB-SW 207411
11/SVB 207161	V/SVB 024638	EA/SVB-SW 022265	11/SVB-SW 207162	V/SVB-SW 027011
12/SVB 207210	V/SVB 059462	EA/SVB-SW 057089	12/SVB-SW 207211	V/SVB-SW 061835
14/SVB 207246	V/SVB 207427	EA/SVB-SW 207426	14/SVB-SW 207247	V/SVB-SW 207428
15/SVB 207281	V/SVB 207415	EA/SVB-SW 207414	15/SVB-SW 207282	V/SVB-SW 207416
145/SVB/HI11 ⁵⁾ 201448	V/SVB/HI11 200619	-	145/SVB-SW/HI11 ⁵⁾ 201447	V/SVB-SW/HI11 200127
148/SVB/HI11 201450	V/SVB/HI11 200620	-	148/SVB-SW/HI11 201449	V/SVB-SW/HI11 200128

Standard pack: 1 off

本泡"N 317"供应商 T Rotary Switch-Disconnectors On-Off Switches

Rotary Switches
Switch-Disconnectors

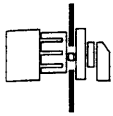
Circuit diagram	Front plate no	Main contacts	Auxiliary contacts	Max. three-phase motor rating (per set of 3 contacts) 50 – 60 Hz			Rated uninterrupted current I_n	Flush mounting Front IP 65	Basic type For ... insert mounting form	Mounting form Article no	Price See Price List
		No of poles		AC-3 220 V 380 V 660 V 230 V 400 V 690 V 240 V 440 V							
	FS 908	M	M B	kW	kW	kW	A				
On-Off switches¹⁾											
	1	0	0	1	1.3	–	20	T0-1-8200/...	E	067352	
				1.8	3.6	–	32	T3-1-8200/...	E	064208	
				5	7.3	–	63	T5B-1-8200/...	E	094281	
				7.3	12.3	–	100	T5-1-8200/...	E	097226	
	2	0	0	2.2	2.2	–	20	T0-1-102/...	E	088709	
				3	5.5	–	32	T3-1-102/...	E	076073	
				7.5	11	–	63	T5B-1-102/...	E	094471	
				11	18.5	–	100	T5-1-102/...	E	098810	
	3	0	0	3	4	4	20	T0-2-1/...	E	024639	
				5.5	7.5	7.5	25	P1-25/...	E	038724	
				7.5	13	15	32	P1-32/...	E	079065	
				15	30	30	63	P3-63/...	E	026861	
				22	37	37	100	P3-100/...	E	067201	
				22	37	22	125	T6-2/...	E	098106	
	3+N	0	0	3	4	4	20	T0-2-8900/...	E	207398	
				5.5	7.5	7.5	25	P1-25/...	E/N	076845	
				7.5	13	15	32	P1-32/...	E/N	093456	
				15	30	30	63	P3-63/...	E/N	019894	
				22	37	37	100	P3-100/...	E/N	031759	
	6	0	0	3	4	4	20	T0-3-8342/...	E	043624	
				6.5	12	15	32	T3-3-8342/...	E	045225	
				15	22	22	63	T5B-3-8342/...	E	092310	
				18.5	30	30	100	T5-3-8342/...	E	096385	
	8	0	0	3	4	4	20	T0-4-8344/...	E	014000	
				6.5	12	–	32	T3-4-8344/...	E	020593	
				15	22	22	63	T5B-4-8344/...	E	092064	
				22	30	30	100	T5-4-8344/...	E	095963	

Standard pack 1 off

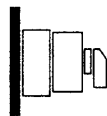
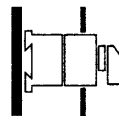
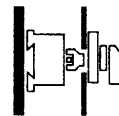
Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

On-Off Switches [查询N-P1Z"供应商"](#)Centre mounting
Front IP 65Mounting form
Article no.Price
See Price
ListSurface mounting²⁾
IP 65

Totally insulated

Mounting form
Article no.Price
See Price
ListService distribution board
mounting
Front IP 30Mounting form
Article no.Price
See Price
ListRear mounting
Front IP 65Mounting form
Article no.Price
See Price
List

EZ 069725	I1 207074	IVS 074471	Z 076844
EZ 066581	I2 207167	-	Z 071327
-	I4 207218	-	Z 094270
-	I5 207264	-	Z 097219
EZ 091082	I1 207061	IVS 015147	Z 095828
EZ 078446	I2 207165	-	Z 083192
-	I4 207215	-	Z 094460
-	I5 207262	-	Z 098803
EZ 027012	I1 207081	IVS 031758	Z 036504
EZ 041250	I2 207299	IVS 052962	Z 057708
EZ 048369	I2 207320	IVS 093303	Z 098049
-	I4 207356	IVS 041099	Z 050591
-	I5 207381	IVS 081439	Z 090931
-	-	-	-
EZ 207402	I1 207109	IVS 207403	Z 207407
EZ/N 079218	I2/N 207303	IVS/N 083964	Z/N 088710
EZ/N 095829	I2/N 207324	IVS/N 010402	Z/N 015148
-	I4/N 207360	IVS/N 022267	Z/N 027013
-	I5/N 207385	IVS/N 034132	Z/N 038878
EZ 045997	I1 207131	IVS 050743	Z 055489
EZ 047598	I2 207187	-	Z 052344
-	I4 207226	-	Z 092297
-	I5 207267	-	Z 096378
EZ 014002	I1 207139	IVS 014006	Z 014009
EZ 020595	I2 207194	-	Z 020600
-	I4 207233	-	Z 092053
-	I5 207272	-	Z 095656

Standard pack: 1 off

查询"N-PIZ"供应商

Rotary Switches, P Switch-Disconnectors On-Off Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front
plate
no.Main
contactsAuxiliary
contactsMax. three-phase
motor rating (per set of
3 contacts)

50 – 60 Hz

Rated
unin-
ter-
rupted
current
 I_u Flush
mounting
Front IP 65No. of
poles

AC-3
220 V 380 V 660 V
230 V 400 V 690 V
240 V 440 V



FS 908

M

M

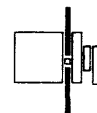
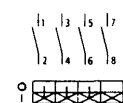
B

kW

kW

kW

A

Basic type
For ... insert
mounting formMounting
form
Article no.Price
See Price
ListOn-Off switches with auxiliary contacts¹⁾

3

1

0

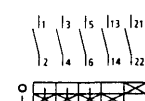
3

4

4

20

T0-2-15679/...

E
029387

3

1

1

5.5

7.5

7.5

25

P1-25/...

E/H11
045998

7.5

13

15

32

P1-32/...

E/H11
062609

15

30

30

63

P3-63/...

E/H11
079220

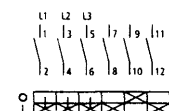
22

37

37

100

P3-100/...

E/H11
069574

3

2

1

3

4

4

20

T0-3-15683/...

E
016619

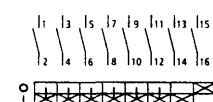
6.5

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

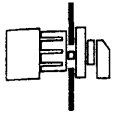
Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

On-Off Switches [查询"NZ-BIZ"供应商](#)

Centre mounting
Front IP 65



Mounting form
Article no.

Price
See Price
List

Surface mounting²⁾

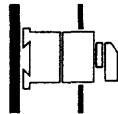
IP 65



Mounting form
Article no.

Price
See Price
List

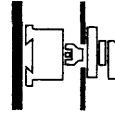
Service distribution
board mounting
Front IP 30



Mounting form
Article no.

Price
See Price
List

Rear mounting
Front IP 65



Mounting form
Article no.

Price
See Price
List

Rotary Switches
Switch-Disconnectors

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

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front
plate
no.Main
contactsAuxiliary
contactsMax. three-phase
motor rating (per set of
3 contacts)
50 – 60 HzRated
unin-
ter-
rupted
current
 I_u Flush
mounting
Front IP 65No. of
poles

FS 908 GE

M

M

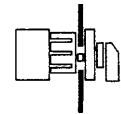
B

kW

kW

kW

A

Basic type
For ... insert
mounting
formMounting
form
Article no.Price
See Price
ListOn-Off switches for use as Emergency-Stop devices¹⁾

1

0

0

1

13

–

20

T0-1-8200/...

E-RT
009474

18

36

–

32

T3-1-8200/...

E-RT
017025

5

73

–

63

T5B-1-8200/...

E-RT
094280

7.3

12.3

–

100

T5-1-8200/...

E-RT
097225

2

0

0

2.2

22

–

20

T0-1-102/...

E-RT
009046

3

55

–

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

22

30

63

P3-63/...

E-RT
005743

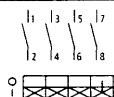
22

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

22

30

63

P3-63/...

E-RT/N
007136

22

37

37

100

P3-100/...

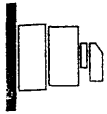
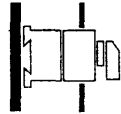
E-RT/N
007280

Standard pack: 1 off

Notes

¹⁾ To IEC/EN 60 204 Part 1; with red thumb-grip and yellow front ring²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

On-Off Switches [查询"NB1Z"供应商](#)Surface mounting²⁾ 
IP 65Service distribution board mounting
Front IP 30Mounting form
Article no.Price
See Price
ListMounting 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

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front
plate
no.Main
contactsAuxiliary
contactsMax. three-phase
motor rating (per set of
3 contacts)
50 – 60 HzRated
unin-
ter-
rupted
current
 I_u

For use as ->

Emergency-Stop device¹⁾

Surface mounting

totally insulated

IP 65

Type
Article no.Price
See Price
List

FS 908

No. of
poles

M

M B

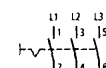
kW

kW

kW

A

Safety switches



3

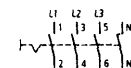
0 0

5.5

7.5

7.5

25

P1-25/I2-SI
207308

3+N

0 0

5.5

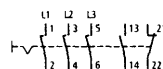
7.5

7.5

25

P1-25/I2-SI/N
207312

With auxiliary contacts



3

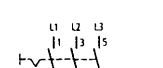
1 1

5.5

7.5

7.5

25

P1-25/I2-SI/HI11
207310

3

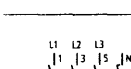
1 1

7.5

13

15

32

P1-32/I2-SI/N
207333

3+N

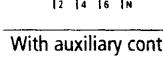
0 0

15

30

30

63

P3-63/I4-SI
207361

3+N

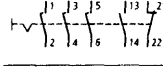
0 0

15

30

30

63

P3-63/I4-SI/N
207365

3

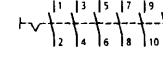
1 1

15

30

30

63

P3-63/I4-SI/HI11
207363

3

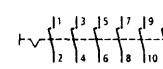
1 1

15

30

30

100

P3-100/I5-SI/HI11
207388

6

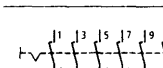
0 0

11

15

11

63

T5B-3-8342/I4-SI
207250

6

1 1

11

15

11

63

T5B-4-15682/I4-SI
207254

6

2 0

11

15

11

63

T5B-4-8903/I4-SI
207258

6

2 0

15

22

22

100

T5-4-15682/I5-SI
207285

6

2 0

11

15

11

63

T5B-4-8903/I4-SI
207289

Standard pack: 1 off

Notes

- ¹⁾ To IEC/EN 60 204 Part 1; with red rotary handle and yellow locking collar, lockable in 0 (Off) position with cover interlock
- ²⁾ With black rotary handle and locking collar, lockable in 0 (Off) position with cover interlock
- ³⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

Safety Switches [查询"PIZ"供应商](#)

Without Emergency-Stop function²⁾

Surface mounting³⁾ 
IP 65



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/SH-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

Padlocking facility 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 07/063

No contacts can be retrofitted to T... rotary switches

Standard pack: 1 off

Notes

For general information on safety switches see
→ Page 07/111
Switches to the Swiss Accident Insurance Institute
Directive on request from Klockner-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 HzRated un-
inter-
rupted
current
 I_u Flush
mounting
Front IP 65No. of
polesAC-3
220 V 380 V 660 V
230 V 400 V 690 V
240 V 440 V

M

kW

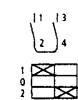
kW

kW

A

Basic type
For ... insert
mounting
formMounting
form
Article no.Price
See Price
ListChangeover switches with 0 position¹⁾

Group switches, mains transfer switches



FS 684

1

1

1.3

-

20

T0-1-8210/...

E
012742

1.8

3.6

-

32

T3-1-8210/...

E
054718

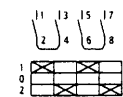
5

7.3

-

63

T5B-1-8210/...

E
094261

FS 684

2

2.2

2.2

-

20

T0-2-8211/...

E
022234

3

5.5

-

32

T3-2-8211/...

E
061837

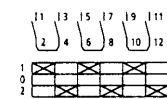
7.5

11

-

63

T5B-2-8211/...

E
093094

FS 684

3

3

4

4

20

T0-3-8212/...

E
029353

6.5

12

15

32

T3-3-8212/...

E
068956

15

22

22

63

T5B-3-8212/...

E
092386

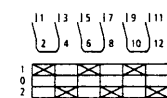
18.5

30

30

100

T5-3-8212/...

E
096466

FS 684

3

22

37

22

125

T6-3-8212/...

E
017425

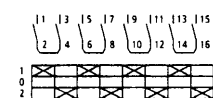
37

55

37

315

T8-3-8212/...

E
019798

FS 684

4

3

4

4

20

T0-4-8213/...

E
031726

6.5

12

15

32

T3-4-8213/...

E
076075

15

22

22

63

T5B-4-8213/...

E
092112

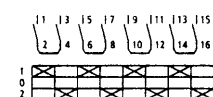
18.5

30

30

100

T5-4-8213/...

E
096014

FS 953

3+N

3

4

4

20

T0-4-8294/...

E
010371

6.5

12

15

32

T3-4-8294/...

E
002513

15

22

22

63

T5B-4-8294/...

E
092084

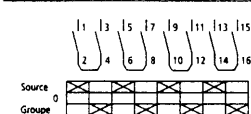
18.5

30

22

100

T5-4-8294

E
095986

FS 161629

3+N

15

22

22

63

T5B-4-8902/...

E
207430

18.5

30

22

100

T5-4-8902/...

E
207418

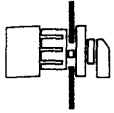
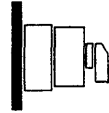
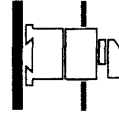
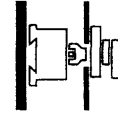
Standard pack: 1 off

Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches "Changeover Switches"

Centre mounting
Front IP 65Surface mounting²⁾
 IP 65Service distribution
board mounting
Front IP 30Rear mounting
Front IP 65Mounting form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
ListMounting form
Article no.Price
See Price
List

EZ 048337		I1 207076		IVS 074440		Z 019862	
EZ 003072		I2 207169		-		Z 057091	
-		I4 207432		-		Z 094258	
EZ 053083		I1 207102		IVS 076813		Z 029354	
EZ 003075		I2 207178		-		Z 064210	
-		I4 207220		-		Z 093082	
EZ 057829		I1 207123		IVS 079186		Z 036473	
EZ 003080		I2 207183		-		Z 071329	
-		I4 207223		-		Z 092383	
-		I5 207266		-		Z 096464	
-		-		-		-	
-		-		-		-	
EZ 062575		I1 207136		IVS 081559		Z 043592	
EZ 003079		I2 207191		-		Z 078448	
-		I4 207230		-		Z 092109	
-		I5 207270		-		Z 096012	
EZ 072069		I1 207138		IVS 043594		Z 048347	
EZ 001014		I2 207193		-		Z 004886	
-		I4 207232		-		Z 092081	
-		I5 207433		-		Z 095984	
-		I4 207237		-		Z 207431	
-		I5 207214		-		Z 207419	

Standard pack: 1 off

T Rotary Switches

Control Switches Changeover Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front
plate no.Max. three-phase
motor rating (per set of
3 contacts)
50 – 60 HzRated
unin-
ter-
rupted
cur-
rent
 I_u Flush
mounting
Front IP 65No. of
polesAC-3
220 V 380 V 660 V
230 V 400 V 690 V
240 V 440 V

FS 4011

M

kW

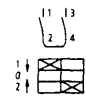
kW

kW

A

Basic type
For ... insert
mounting
formMounting
form
Article no.Price
See Price
ListChangeover switches with 0 position¹⁾

With spring-return from both directions to 0



1

1

1.3

–

20

T0-1-8214/...

E

019863

1.8

3.6

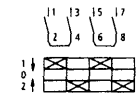
–

32

T3-1-8214/...

E

009632



2

2.2

2.2

–

20

T0-2-8215/...

E

022236

3

5.5

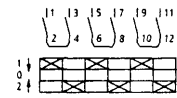
–

32

T3-2-8215/...

E

016751



3

3

4

4

20

T0-3-8216/...

E

024609

6.5

12

15

32

T3-3-8216/...

E

023870

Standard pack: 1 off

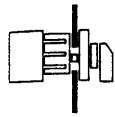
Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches, Changeover Switches

Centre mounting
Front IP 65

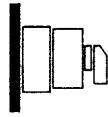


Mounting form
Article no.

Price
See Price
List

Surface mounting²⁾

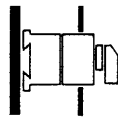
IP 65



Mounting form
Article no.

Price
See Price
List

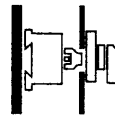
Service distribution
board mounting
Front IP 30



Mounting form
Article no.

Price
See Price
List

Rear mounting
Front IP 65



Mounting form
Article no.

Price
See Price
List

Rotary Switches
Switch-Disconnectors

EZ 076815		I1 207077		IVS 045967		Z 050720	
EZ 001073		I2 207170		—		Z 012005	
EZ 081561		I1 207103		IVS 048340		Z 053093	
EZ 001074		I2 207179		—		Z 019124	
EZ 086307		I1 207434		IVS 050713		Z 055466	
EZ 001077		I2 207184		—		Z 026243	

Standard pack: 1 off

[查询"N. 017"供应商](#) Rotary Switches

Control Switches: Changeover Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram

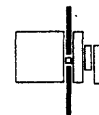
Front plate no.

No. of poles

Max. three-phase motor rating (per set of 3 contacts)
50 – 60 Hz

Rated uninter-
rupted cur-
rent
 I_u

Flush mounting
Front IP 65



FS 943

M

kW

kW

kW

A

Basic type
For ... insert
mounting
form

Mounting
form
Article no.

Price
See Price
List

Changeover switches without 0 position¹⁾

Two-way switches

	1	1.1	1.3	–	20	T0-1-8220/...	E 031728	
		1.8	3.6	–	32	T3-1-8220/...	E 038108	
	2	2.2	2.2	–	20	T0-2-8221/...	E 038847	
		3	5.5	–	32	T3-2-8221/...	E 045227	
		7.5	11	–	63	T5B-2-8221/...	E 093047	
	3	3	4	4	20	T0-3-8222/...	E 048339	
		6.5	12	15	32	T3-3-8222/...	E 052346	
		15	22	22	63	T5B-3-8222/...	E 092378	
	4	3	4	4	20	T0-4-8223/...	E 050712	
		6.5	12	15	32	T3-4-8223/...	E 059465	
		15	22	22	63	T5B-4-8223/...	E 092108	
		18.5	30	30	100	T5-4-8223/...	E 096010	
	5	3	4	4	20	T0-5-8369/...	E 060204	
		6.5	12	15	32	T3-5-8369/...	E 066584	
	6	3	4	4	20	T0-6-8370/...	E 062577	
		6.5	12	15	32	T3-6-8370/...	E 073703	
	8	3	4	4	20	T0-8-8372/...	E 064950	
		6.5	12	15	32	T3-8-8372/...	E 080822	

Standard pack: 1 off

Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

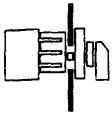
Control Switches: Changeover Switches

Centre mounting
Front IP 65

Surface mounting²⁾
 IP 65

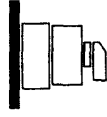
Service distribution
board mounting
Front IP 30

Rear mounting
Front IP 65



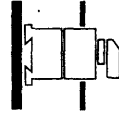
Mounting form
Article no.

Price
See Price
List



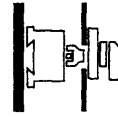
Mounting form
Article no.

Price
See Price
List



Mounting form
Article no.

Price
See Price
List



Mounting form
Article no.

Price
See Price
List

EZ 095799		I1 207078		IVS 055459		Z 086312	
EZ 001018		I2 207171		-		Z 040481	
EZ 010372		I1 207104		IVS 057832		Z 074450	
EZ 001025		I2 207180		-		Z 047600	
-		I4 207221		-		Z 093044	
EZ 015118		I1 207124		IVS 060205		Z 088686	
EZ 001069		I2 207185		-		Z 057092	
-		I4 207224		-		Z 092375	
EZ 019864		I1 207137		IVS 062578		Z 086315	
EZ 001070		I2 207192		-		Z 061838	
-		I4 207231		-		Z 092105	
-		I5 207271		-		Z 096008	
EZ 024610		-		IVS 064951		Z 098180	
EZ 004503		I2 207536		-		Z 068957	
EZ 029356		-		IVS 067324		Z 010380	
EZ 004506		-		-		Z 078449	
EZ 034102		-		IVS 069697		Z 012753	
EZ 004508		-		-		Z 083195	

Standard pack: 1 off

Rotary Switches
Switch-Disconnectors

泰海"N P17"供应商 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)			Rated uninterrupted current I_u	Basic type For ... insert mounting form	Flush mounting Front IP 65	Mounting form Article no.	Price See Price List
			50 – 60 Hz							
			AC-3							
			220 V	380 V	660 V					
			230 V	400 V	690 V					
			240 V	440 V						
			M	kW	kW	kW	A			
Reversing switches with 0 position ¹⁾										
		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		
		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		
With spring-return from both directions to 0										
		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		
Star-delta switches ¹⁾										
		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		
Reversing star-delta switches ¹⁾										
		3	4	5.5	5.5	20	T0-5-15876/...	E 000893		
			7.5	18.5	22	32	T3-5-15876/...	E 016776		
		3	22	30	37	63	T5B-5-15896/...	E 091953		
Standard pack: 1 off										

Standard pack: 1 off

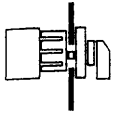
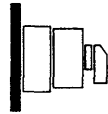
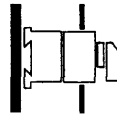
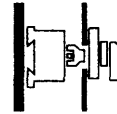
Notes

¹⁾ With black thumb-grip and silver-coloured front plate

²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches, Reversing Switches, Star-Delta Switches

Centre mounting
Front IP 65Mounting form
Article no.Price
See Price
ListSurface mounting²⁾
Totally Insulated
IP 65Mounting form
Article no.Price
See Price
ListService distribution
board mounting
Front IP 30Mounting form
Article no.Price
See Price
ListRear mounting
Front IP 65Mounting 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 091951	

Standard pack: 1 off

T Rotary Switches

查询NPIZ供应商

Control Switches, Multi-Speed Switches, Reversing Multi-Speed Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram	Front plate no.	no. of poles	Max. three-phase motor rating (per set of 3 contacts) 50 – 60 Hz			Rated uninter- rupted cur- rent I_u	Flush mounting Front IP 65	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					
		M	kW	kW	kW	A				
Multi-speed switches¹⁾										
Two-speed, non reversing For separate windings										
		3	3	4	4	20	T0-3-8451/...	E 038849		
			6.5	12	15	32	T3-3-8451/...	E 028641		
			15	22	22	63	T5B-3-8451/...	E 092288		
For one tapped winding										
		3	3	4	4	20	T0-4-8440/...	E 041222		
			6.5	12	15	32	T3-4-8440/...	E 035760		
			15	22	22	63	T5B-4-8440/...	E 092032		
		3	3	4	4	20	T0-4-8441/...	E 043595		
			6.5	12	15	32	T3-4-8441/...	E 042879		
			15	22	22	63	T5B-4-8441/...	E 092028		
Reversing multi-speed switches¹⁾										
Two-speed For one tapped winding										
		3	3	4	4	20	T0-6-15866/...	E 055460		
			6.5	12	15	32	T3-6-15866/...	E 054744		
		3	15	22	22	63	T5B-7-66/...	E 091539		

Standard pack: 1 off

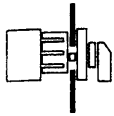
Notes

¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches Multi-Speed Switches, Reversing Multi-Speed Switches

Centre mounting
Front IP 65

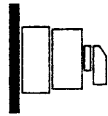


Mounting form
Article no.

Price
See Price
List

Surface mounting²⁾

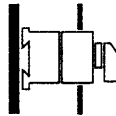
IP 65



Mounting form
Article no.

Price
See Price
List

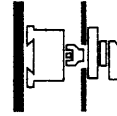
Service distribution
board mounting
Front IP 30



Mounting form
Article no.

Price
See Price
List

Rear mounting
Front IP 65



Mounting form
Article no.

Price
See Price
List

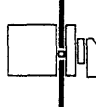
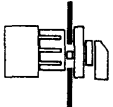
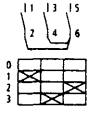
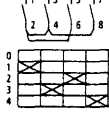
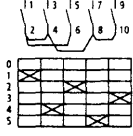
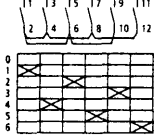
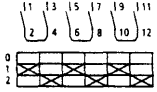
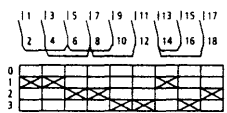
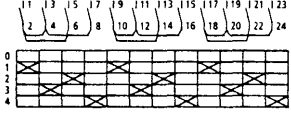
EZ 083936		I1 207133		IVS 026985		Z 043596	
EZ 000956		I2 207189		-		Z 031014	
-		I4 207228		-		Z 092285	
EZ 088682		I1 207141		IVS 029358		Z 048342	
EZ 000959		I2 207196		-		Z 038133	
-		I4 207235		-		Z 092029	
EZ 093428		I1 207142		IVS 031731		Z 053088	
EZ 000960		I2 207197		-		Z 045252	
-		I4 207236		-		Z 092025	
EZ 012747		-		IVS 036477		Z 067326	
EZ 000964		-		-		Z 057117	
-		-		-		Z 091501	

Standard pack: 1 off

T Rotary Switches

Control Switches: Step Switches

Rotary Switches
Switch-Disconnectors

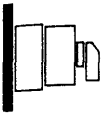
Circuit diagram	Front plate no.	no. of poles	Steps	Basic type For ... insert mounting form	Flush mounting Front IP 65 	Price See Price List	Centre mounting Front IP 65 	Price See Price List
Step switches¹⁾								
One contact closed per step (without overlap)								
With additional 0 position								
	 FS 418	1	2	T0-1-8240/...	E 034105		EZ 043597	
	 FS 420	1	3	T0-2-8241/...	E 050716		EZ 053089	
	 FS 422	1	4	T0-2-8242/...	E 067327		EZ 069700	
	 FS 424	1	5	T0-3-8243/...	E 081565		EZ 083938	
	 FS 426	1	6	T0-3-8244/...	E 095803		EZ 098176	
	 FS 418	3	2	T0-3-8280/...	E 034106		EZ 036479	
	 FS 420	3	3	T0-5-8281/...	E 048344		EZ 050717	
	 FS 422	3	4	T0-6-8282/...	E 062582		EZ 064955	

Standard pack: 1 off

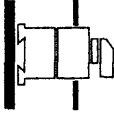
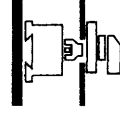
Notes¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches, Step Switches

Surface mounting²⁾totally insulated
Front IP 65Mounting
form
Article no.Price
See Price
List

Service distribution board

mounting
Front IP 30Mounting
form
Article no.Price
See Price
ListRear
mounting
Front IP 65Mounting
form
Article no.Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

Rated uninterrupted current I_u 20 ARated operational current I_e

AC-15

220 – 240 V 6 A

380 – 415 V 4 A

AC-21 A 12 A

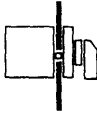
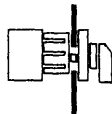
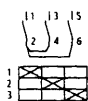
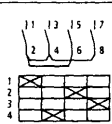
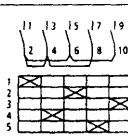
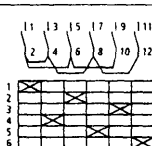
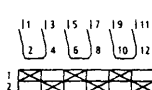
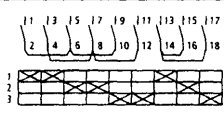
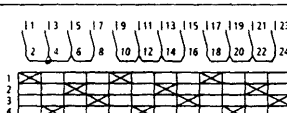
DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1 207079		IVS 027076		Z 060208	
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

查询"N-PIZ"供应商
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 IP 65 	Price See Price List	Centre mounting Front IP 65 	Price See Price List
Step switches¹⁾								
One contact closed per step (without overlap) Without 0 position								
	 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

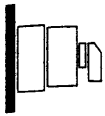
- ¹⁾ With black thumb-grip and silver-coloured front plate
²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches Step Switches

Surface mounting²⁾

totally insulated
IP 65

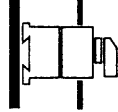


**Mounting
form**
Article no.

Price
See Price
List

Service distribution board mounting

Front IP 30

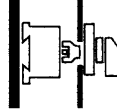


**Mounting
form**
Article no.

Price
See Price
List

Rear mounting

Front IP 65



**Mounting
form**
Article no.

Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

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-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1 207078		IVS 055459		Z 086312	
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	

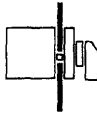
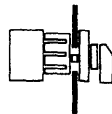
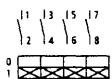
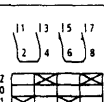
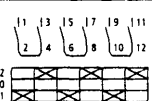
Standard pack: 1 off

查询"N-P1Z"供应商

T Rotary Switches

Control Switches: On-Off Switches, Changeover Switches

rotary switches
Switch-Disconnectors

Circuit diagram	Front plate no.	no. of poles	Basic type For ... insert mounting form	Flush mounting Front IP 65 	Price See Price List	Centre mounting Front IP 65 	Price See Price List
On-Off switches¹⁾							
	 FS 415	1	T0-1-15401/...	E 038854		EZ 041227	
	 FS 415	2	T0-1-15402/...	E 053092		EZ 055465	
	 FS 415	3	T0-2-15403/...	E 067330		EZ 069703	
	 FS 415	4	T0-2-15404/...	E 081568		EZ 083941	
Changeover switches¹⁾							
	 FS 429	1	T0-1-15421/...	E 095806		EZ 098179	
	 FS 429	2	T0-2-15422/...	E 019871		EZ 022244	
	 FS 429	3	T0-3-15423/...	E 034109		EZ 036482	

Standard pack: 1 off

Notes

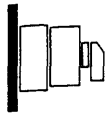
¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control switches, On/Off switches, Changeover switches

Surface mounting²⁾

totally insulated
IP 65

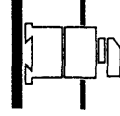


Mounting
form
Article no.

Price
See Price
List

Service distribution board

mounting
Front IP 30

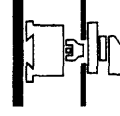


Mounting
form
Article no.

Price
See Price
List

Rear

mounting
Front IP 65



Mounting
form
Article no.

Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

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-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1 207067		IVS 045973		Z 048346	
I1 207068		IVS 060211		Z 062584	
I1 207088		IVS 074449		Z 076822	
I1 207089		IVS 088687		Z 091060	
I1 207069		IVS 012752		Z 015125	
I1 207090		IVS 026990		Z 029363	
I1 207114		IVS 041228		Z 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 IP 65 Mounting form Article no.	Price See Price List	Centre mounting Front IP 65 Mounting form Article no.	Price See Price List
Hand/Auto switches ¹⁾							
Hand/Auto switches with locking arrangement → Page 07/050							
With 0 position							
		1	T0-1-15431/...	E 019872		EZ 022245	
	FS 1401						
		2	T0-2-15432/...	E 034110		EZ 036483	
	FS 1401						
		3	T0-3-15433/...	E 048348		EZ 050721	
	FS 1401						
With spring-return from HAND							
		1	T0-1-15434/...	E 062586		EZ 018053	
	FS 1414000						
With spring-return from START							
		1	T0-2-15907/...	E 066931		EZ 069304	
	FS 1413890						
Without 0 position							
		1	T0-1-15451/...	E 076824		EZ 079197	
	FS 19334						
		2	T0-2-15452/...	E 091062		EZ 093435	
	FS 19334						
		3	T0-3-15453/...	E 015127		EZ 017500	
	FS 19334						

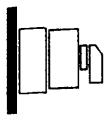
Standard pack: 1 off

Notes

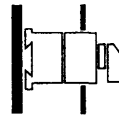
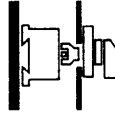
- ¹⁾ With black thumb-grip and silver-coloured front plate
²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches Hand/Auto Switches

Surface mounting²⁾totally insulated
IP 65Mounting
form
Article no.Price
See Price
List

Service distribution board

mounting
Front IP 30Mounting
form
Article no.Price
See Price
ListRear
mounting
Front IP 65Mounting
form
Article no.Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

Rated uninterrupted current I_u 20 ARated operational current I_e

AC-15

220 – 240 V 6 A

380 – 415 V 4 A

AC-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

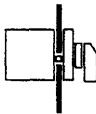
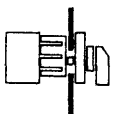
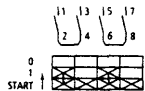
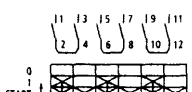
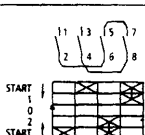
I1 207070	IVS 026991	Z 029364
I1 207091	IVS 041229	Z 043602
I1 207115	IVS 055467	Z 057840
I1 207071	IVS 069705	Z 072078
I1 207095	IVS 076423	Z 078796
I1 207072	IVS 083943	Z 086316
I1 207092	IVS 098181	Z 010381
I1 207116	IVS 022246	Z 024619

Standard pack: 1 off

Rotary Switches
Switch-Disconnectors

查询"N.P.LZ"供应商 1 Rotary Switches

Control Switches: Spring-Return Switches

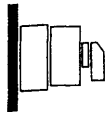
Circuit diagram	Front plate no.	no. of poles	Basic type For ... insert mounting form	Flush mounting Front IP 65 Mounting form Article no.	Price See Price List	Centre mounting Front IP 65 Mounting form Article no.	Price See Price List
 							
On switches (make contacts)¹⁾							
Spring-return from position 1							
	 FS 4721	1	T0-1-15321/...	E 086317		EZ 088690	
	 FS 4721	2	T0-1-15322/...	E 010382		EZ 012755	
	 FS 4721	3	T0-2-15323/...	E 024620		EZ 026993	
On-Off spring-return switches¹⁾							
Spring-return from positions 0 and 1							
	 FS 456	To control 1 contactor	T0-1-15366/...	E 081572		EZ 083945	
On-Off spring-return switches¹⁾							
Spring-return from START							
	 FS 147767	1	T0-1-15511/...	E 019875		EZ 022248	
	 FS 147767	2	T0-2-15512/...	E 034113		EZ 036486	
	 FS 147767	3	T0-3-15513/...	E 048351		EZ 050724	
	 FS 140660	To control 1 reversing contactor	T0-2-8177/...	E 015130		EZ 017503	

Standard pack: 1 off

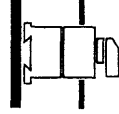
Notes¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

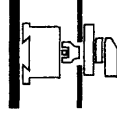
Control Switches Spring Return Switches

Surface mounting²⁾totally insulated
IP 65Mounting
form
Article no.Price
See Price
List

Service distribution board

mounting
Front IP 30Mounting
form
Article no.Price
See Price
List

Rear

mounting
Front IP 65Mounting
form
Article no.Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

Rated uninterrupted current I_u 20 ARated operational current I_e

AC-15

220 – 240 V 6 A

380 – 415 V 4 A

AC-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1 207064		IVS 093436		Z 095809	
I1 207065		IVS 017501		Z 019874	
I1 207087		IVS 031739		Z 034112	
I1 207066		IVS 088691		Z 091064	
I1 207073		IVS 026994		Z 029367	
I1 207093		IVS 041232		Z 043605	
I1 207117		IVS 055470		Z 057843	
I1 207107		IVS 022249		Z 024622	

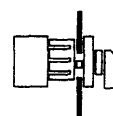
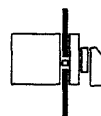
Standard pack: 1 off

T Rotary Switches

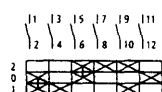
Control Switches, Universal Control Switches, Coding Switches, Series Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front
plate
no.no. of
polesFlush
mounting
Front IP 65Centre mounting
Front IP 65Basic type
For ... insert
mounting
formMounting
form
Article no.Price
See Price
ListMounting
form
Article no.Price
See Price
ListUniversal control switches¹⁾

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



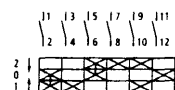
FS 429

-

T0-3-15391/...

E
029365EZ
031738

As above, but with spring-return from positions 1 and 2



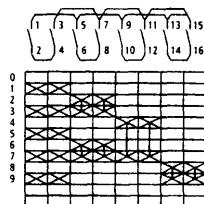
FS 458

-

T0-3-15394/...

E
072079EZ
074452Coding switches¹⁾

With complete rotation in both directions



FS 312

Dual
BCD
CODE

T0-4-15602/...

E
029368EZ
031741Series switches¹⁾With 0 position
(Heater switches)

FS 614

1

T0-1-91/...

E
072082EZ
074455

Standard pack: 1 off

Notes

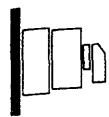
¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

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

Surface mounting²⁾

IP 65

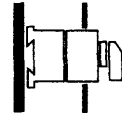


Mounting
form
Article no.

Price
See Price
List

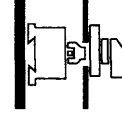
Service distribution board

Front IP 30



Mounting
form
Article no.

Price
See Price
List

Rear
mounting
Front IP 65

Mounting
form
Article no.

Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

Rated uninterrupted current I_u 20 ARated operational current I_e

AC-15

220 – 240 V 6 A

380 – 415 V 4 A

AC-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1
207112

IVS
036484

Z
038857

I1
207113

IVS
079198

Z
081571

I1
207134

IVS
036487

Z
038860

I1
207080

IVS
079201

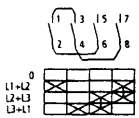
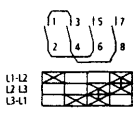
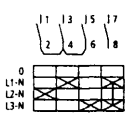
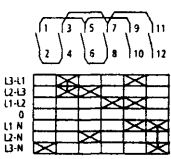
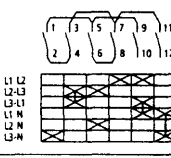
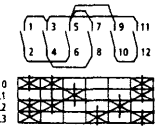
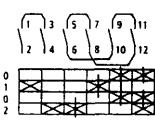
Z
081574

Standard pack: 1 off

T Rotary Switches

查询N-DL2型供应商 Instrument Selector Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram	Front plate no.	no. of poles	Basic type For ... insert mounting form	Flush mounting Front IP 65 Mounting form Article no.	Price See Price List	Centre mounting Front IP 65 Mounting form Article no.	Price See Price List
Instrument selector switches¹⁾							
Voltmeter							
	 FS 1410755	3 × phase to phase With 0 position	T0-2-15920/...	E 038861		EZ 041234	
	 FS 164854	3 × phase to phase Without 0 position	T0-2-15922/...	E 053099		EZ 055472	
	 FS 1410757	3 × phase to N With 0 position	T0-2-15921/...	E 067337		EZ 069710	
	 FS 1410759	3 × phase to phase + 3 × phase to N With 0 position	T0-3-8007/...	E 095813		EZ 098186	
	 FS 164721	3 × phase to phase + 3 × phase to N Without 0 position With complete rotation in both directions	T0-3-15924/...	E 019878		EZ 022251	
Ammeter							
With complete rotation in both directions							
Measurement via current transformers							
	 FS 9440	With 0 position	T0-3-8048/...	E 034116		EZ 036489	
Voltmeter and ammeter							
With complete rotation in both directions							
Measurement via current transformers (For other circuits, see catalogue K 115)							
	 FS 928	With 0 position	T0-3-8030/...	E 013401		EZ 013402	

Standard pack: 1 off

Notes

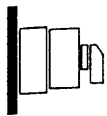
¹⁾ With black thumb-grip and silver-coloured front plate²⁾ Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches

Control Switches Instrument Selector Switches

Surface mounting²⁾

IP 65

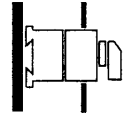


**Mounting
form**
Article no.

Price
See Price
List

Service distribution board

Front IP 30

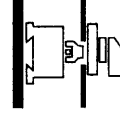


**Mounting
form**
Article no.

Price
See Price
List

Rear

Front IP 65



**Mounting
form**
Article no.

Price
See Price
List

Notes

Suitable for actuating electronic devices (PLCs)

Rated uninterrupted current I_u 20 ARated operational current I_e

AC-15

220 – 240 V 6 A

380 – 415 V 4 A

AC-21 A 12 A

DC-13 32 V per contact 10 A

Further technical data → Page 07/088

I1
207098

IVS
029452

Z
048353

I1
207100

IVS
060218

Z
062591

I1
207099

IVS
074456

Z
076829

I1
207120

IVS
012759

Z
015132

I1
207119

IVS
026997

Z
029370

I1
207122

IVS
041235

Z
043608

I1
207121

IVS
013404

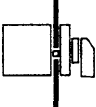
Z
013406

Standard pack: 1 off

T Rotary Switches, P Switch-Disconnectors

Switches with Locking Arrangements

 Rotary Switches
Switch-Disconnectors

Circuit diagram	Front plate no.	no. of poles	Max. three-phase motor rating (per set of 3 contacts) 50 – 60 Hz	Rated uninterrupted current	Flush mounting Front IP 65	Price
			AC-3 220 V 380 V 660 V 230 V 400 V 690 V 240 V 440 V	I_u		See Price List
			kW kW kW	A	Mounting form Article no.	

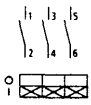
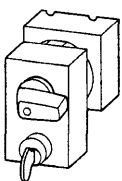
Switches with locking arrangements, KMS 1 lock mechanism

Panic switches without Emergency-Stop function¹⁾

With SVA cylinder lock

Key withdrawable in positions O and I

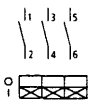
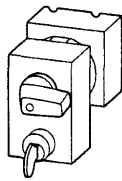
When the key is withdrawn in position I, the switch can still be switched Off, but cannot be switched back On again without the key

		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

On-Off switches without Emergency-Stop function¹⁾

With SVA cylinder lock

Key withdrawable in position O only (code letter A)

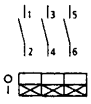
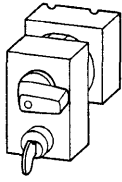
		3	3	4	4	20		T0-2-1/E/SVA(A) 050976
			4	5.5	7.5	25		P1-25/E/SVA(A) 050965
			5.5	11	15	32		P1-32/E/SVA(A) 050970
			5.5	11	15	32		T3-2-1/E/SVA(A) 050982

Panic switches with Emergency-Stop function²⁾

With SVA cylinder lock

Key can be withdrawn in positions O and I

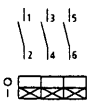
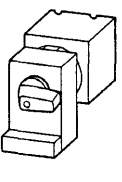
When the key is withdrawn in position I, the switch can still be switched Off, but cannot be switched back On again without the key

		3	3	4	4	20		T0-2-1/E/SVA(S)-RT 044971
			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

Panic switches with Emergency-Stop function²⁾

With SVC padlocking feature

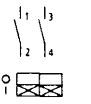
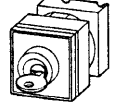
Locking slide can be padlocked in positions O and I. When the locking slide is padlocked in position I, the switch can still be switched Off, but cannot be switched back On again without first removing the padlock. Lockable with up to 3 padlocks.

		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

On-Off switches without Emergency-Stop function³⁾

With S-T0 key operations

Key withdrawable in position O only (code letter A)

		2	2.2	2.2	–	20		T0-1-102/EZ/S 014933
---	---	---	-----	-----	---	----	---	-------------------------

Notes

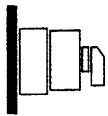
- With black thumb-grip and silver-coloured front plate
- To IEC/EN 60 204-1; with red thumb-grip handle and yellow front plate
- With silver-coloured front plate
- Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

T Rotary Switches, P Switch-Disconnectors

Switches with Locking Arrangements

Surface mounting⁴⁾

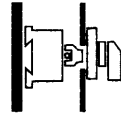
totally insulated
Front IP 65



Mounting form
Article no.

Price
See Price
List

Rear mounting Front IP 65

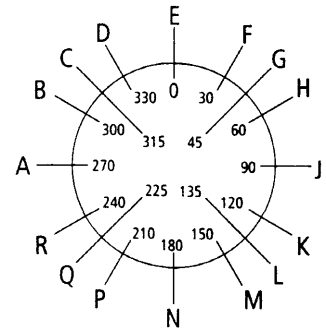


Mounting form
Article no.

Price
See Price
List

Std.
pack

Notes



Code letters for the lockable switch positions

Letter S for panic lock with FS 908 GE

T0-2-1/I1/SVA(S)
207084
P1-25/I2/SVA(S)
207305
P1-32/I2/SVA(S)
207326
T3-2-1/I2/SVA(S)
207173

-

1 off

T0-2-1/I1/SVA(A)
207083
P1-25/I2/SVA(A)
207304
P1-32/I2/SVA(A)
207325
T3-2-1/I2/SVA(A)
207172

T0-2-1/Z/SVA(A)
050978
P1-25/Z/SVA(A)
050969
P1-32/Z/SVA(A)
050973
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

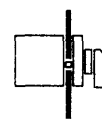


T0-1-102/Z/S
014971

T Rotary Switches

Switches with locking Arrangements

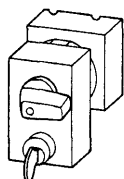
Circuit diagram

Front
plate
no.Rated
uninter-
rupted
current I_u Flush mounting
Front IP 65Mounting form
Article no.Price
See Price
List

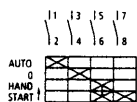
A

Switches with locking arrangements, KMS 1 lock mechanism

Hand/Auto switches with SVA cylinder lock



Key withdrawable in all positions
When the key is withdrawn in the HAND position, then START can be actuated without the key, but not position 0 (only permissible with separate Off switch)

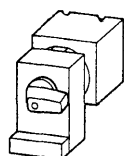


FS 1413890

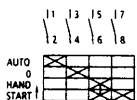
20

T0-2-15907/E/SVA(C,E,G-J)
050979

32

T3-2-15907/E/SVA(C,E,G-J)
050985Hand/Auto switches
With SVC padlocking feature

Locking slide can be padlocked in all positions
When the locking slide is padlocked in the HAND position, then START can be actuated without first removing the padlock, but not position 0 (only permissible with separate Off switch).



FS 1413890

20

T0-2-15907/E/SVC(C,E,G-J)
044996

32

T3-2-15907/E/SVC(C,E,G-J)
044997

Notes

1) Enclosure designed for metric cable glands to EN 50 262, cable glands → Page 07/068

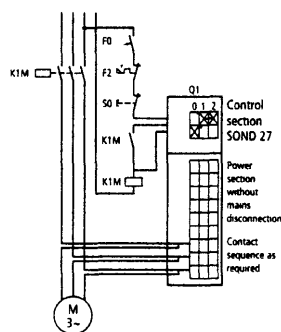
Contactor interlocking circuits

Control section for standard contactor interlocking circuits
If a standard switch is intended to contain one of the contactor interlocking circuits as well, it can be ordered using another circuit number from Catalogue K 115 (please enquire), or as a non-standard switch.

The electrical interlocking of a rotary switch and contactor makes possible a wide range of control functions.

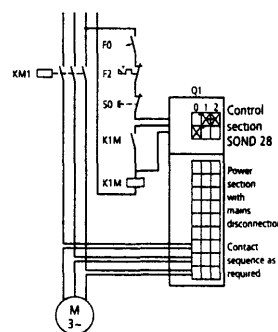
For example: remote disconnection via a stop switch, overload protection via overload relays, protection against automatic restarting after a power failure or overload, and Off position interlocking, etc.

SOND 27



Mains disconnection **only** by contactor
Restarting possible only with the rotary switch in the 0 position
Application: primarily for star-delta circuits (only at 60° or 90° switching angles)

SOND 28



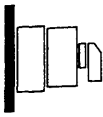
Mains disconnection by contactor and rotary switch together
Restarting: as SOND 27
Application: primarily for star-delta and changeover circuits (only at 60° or 90° switching angles)

T Rotary Switches

Switches with locking arrangements

Surface mounting¹⁾
IP 65

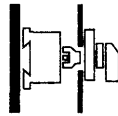
totally insulated



Mounting form
Article no.

Price
See Price
List

Rear mounting
Front IP 65



Mounting form
Article no.

Price
See Price
List

Std.
pack

Notes

Suitable for actuating electronic devices (PLCs)

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-21 A

12 A

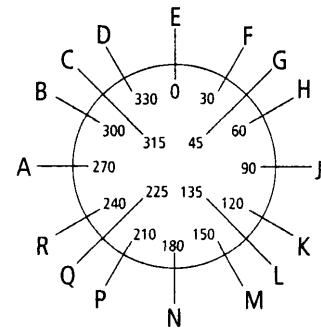
DC-13 32 V per contact

10 A

Further technical data → Page 07/088

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 (Min. switching angle: 60°)

Code letters for lockable switch positions



T0-2-15907/I1/SVA(C,E,G-J)
207096

T3-2-15907/I2/SVA(C,E,G-J)
207176

1 off

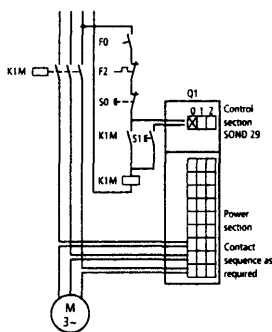
T0-2-15907/I1/SVC(C,E,G-J)
207097

T3-2-15907/I2/SVC(C,E,G-J)
207177

T0-2-15907/Z/SVC(C,E,G-J)
050980

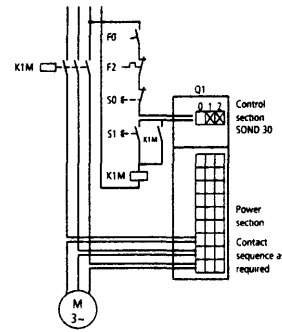
T3-2-15907/Z/SVC(C,E,G-J)
050986

SOND 29



Mains connection by contactor **only** with the rotary switch in the 0 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 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	Standard front plates		Emergency-Stop front plates		Blank plates	
		Type	Price	Type	Price	Type	Price
		Article no.	See Price List	Article no.	See Price List	Article no.	See Price List
		State front plate no. required					
	mm						
Standard front plates							
T0, T3, P1	45 × 45 (frame size 48 × 48)	FS...-T0 903197		FS 908 GE-T0 003198		FS 980-T0 003199	
P3, T5, T58	84 × 84 (frame size 88 × 88)	FS...-P3 995545		FS 908 GE-P3 031475		FS 980-P3 043340	
TM	29 × 29 (frame size 30 × 30)	—		—		FS 980-TM-E 071438	
		—		—		FS 980-TM-EZ 073811	

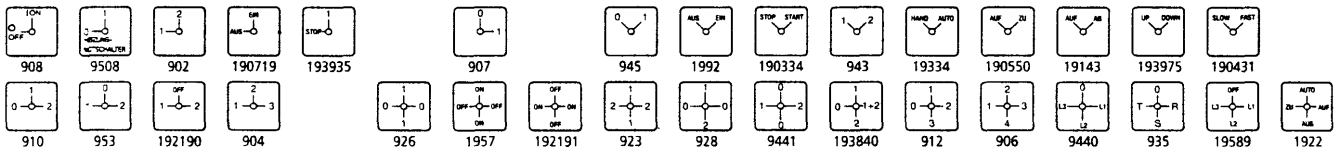
Standard front plates
Silver-coloured with black lettering

Standard pack: 1 off

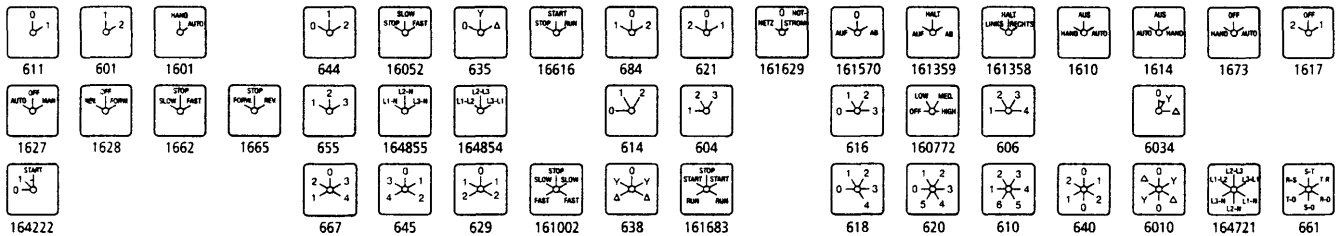
The standard front plates illustrated should be used for non-standard switches where possible. Standard catalogue front plates for standard switches can be exchanged on request with order, for those illustrated here, at no extra charge (not applicable to T6, T8 and TM), provided the switching angles,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

Example: T0-1-8210/E+FS161570

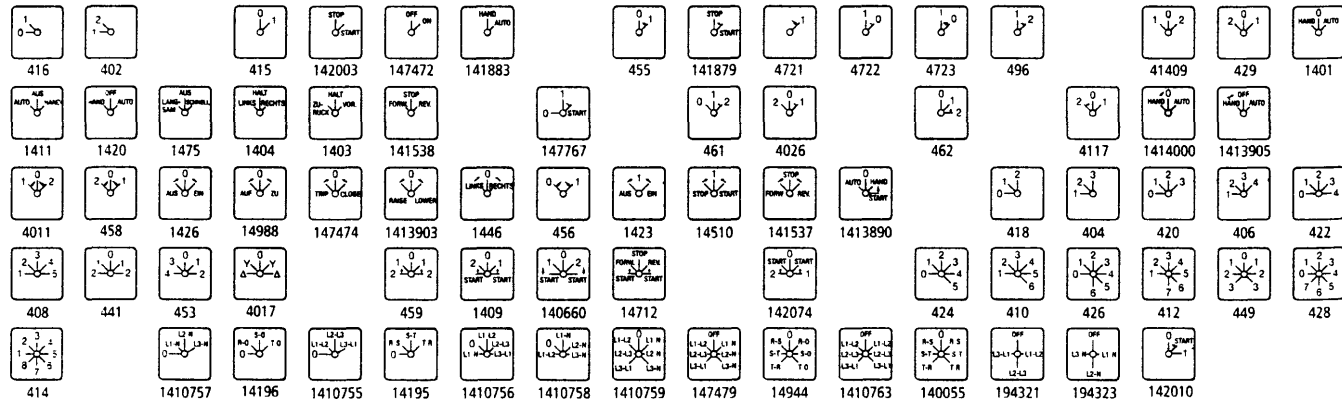
Switching angle 90°



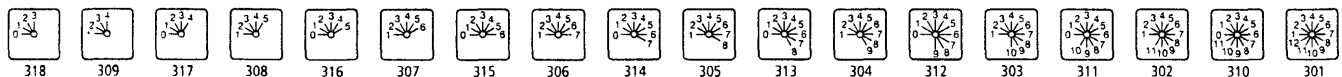
Switching angle 60°



Switching angle 45°



Switching angle 30°



T Rotary Switches, P Switch-Disconnectors

Front plates "N-PIZ" 供应商

Non-standard front plates

Non-standard front plates

Height of letters

≤ 2 characters

> 2 characters

mm

mm

Non-standard front plates

4.0	3.0	FS-SOND-T0 003200	+FS-SOND-T0 065213
8.0	5.0	FS-SOND-P3 060606	+FS-SOND-P3 065214
3.5	2.5	FS-SOND-TM-E 092829	-
3.5	2.5	FS-SOND-TM-EZ 095202	-

Non-standard front plates

Silver-coloured with black lettering

Standard pack: 1 off

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.

Switching angle

90°/45°

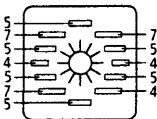
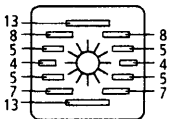
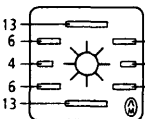
Max. number of characters

60°/30°

FS-SOND-T0 (T3, T5)

60°/30°

FS-SOND-TM-E (EZ)



FS-SOND-T0 (T3, T5, P1, P3)

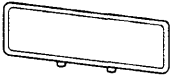
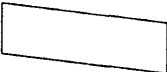
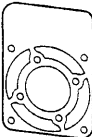
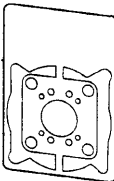
Standard front plates

arranged in their numerical sequence:

301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317
318	402	404	406	408	410	412	414	415	416	418	420	422	424	426	428	429
441	449	453	455	456	458	459	461	462	496	601	604	606	610	611	614	616
618	620	621	629	635	638	640	644	645	655	661	667	684	902	904	906	907
908	910	912	923	926	928	935	943	945	953	980	1401	1403	1404	1409	1411	1420
1423	1426	1446	1475	1601	1610	1614	1617	1627	1628	1662	1665	1673	1922	1957	1992	4011
4017	4026	4117	4721	4722	4723	6010	142010	6034	9440	9441	9508	14195	14196	14510	14712	14944
14988	16052	16616	19143	19334	19589	41409	140055	140660	141537	141538	141879	141883	142003	142074	147472	147474
147479	147767	160772	161002	161358	161359	161570	161629	161683	164222	164721	164854	164855	190334	190431	190550	190719
192190	192191	193840	193935	193975	194321	194323	1410755	1410756	1410757	1410758	1410759	1410763	1413890	1413903	1413905	1414000

T Rotary Switches, P Switch-Disconnectors

Accessories

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
Add-on front plates, clip-on			
			
For use with front plates and for padlocking features. They comprise a black label mount and an aluminium-coloured 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	–	
With inscription: "Main Switch – Open only in the Off position"	T.../E, T.../Z, P.../E, P.../Z 61/62 = German/English, 63 = French	+ZFS 61/62-T0 065740 +ZFS 63-T0 065741 +ZFS 61/62-P3 065742 +ZFS 63-P3 065743	
Label mounts, black			
	T.../I2/SVB(-SW) and P.../I2/SVB(-SW) except ...I1, 2.../IVS	–	
	T..., P... except /I1, 2, 3.../IVS	–	
Insert labels, aluminium-coloured			
			
Blank, can be engraved	ZFSX-T0	–	
With inscription as specified Black lettering		–	
Blank, can be engraved	ZFSX-P3	–	
With inscription as specified Black lettering		–	
Legend plates, aluminium-coloured			
			
Blank, can be engraved	T0-.../E, .../EZ, .../Z T3-.../E, .../EZ, .../Z P1-.../E, .../EZ, .../Z	–	
With inscription as specified Narrow script to DIN 30 640, black		–	
			
Blank, can be engraved	T5(B)-.../E, T5(B).../Z P3-.../E, .../Z T6-2/.../SVB(SW)	–	
With inscription as specified Narrow script to DIN 30 640, black		–	

Notes

1) Not for use with SVB-T0

T Rotary Switches, P Switch-Disconnectors

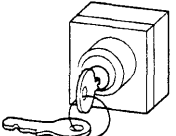
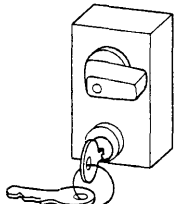
Accessories [上海"N-PIZ"供应商](#)

Type	Price		
Article no.	See Price List	Std. pack	
When ordered separately			
ZFS 60-T0 019924		25 off	ZFS...-T0 and ZFS...-P3 can be used for any T... and P... switches, as required, and also for PKZ 2. Dimensions with frame W × H = 48 × 17 mm Dimensions with frame W × H = 88 × 27 mm Included as standard with: T.../EA/SVB, P.../EA/SVB T.../V/SVB, P.../V/SVB For ZFS in other languages → Page 07/086
ZFS 60-P3 022297		25 off	
ZFS 61/62-T0 030170		25 off	
ZFS 63-T0 047424			
ZFS 61/62-P3 065739			
ZFS 63-P3 047423			
ZFSX-T0 024670		25 off	ZFSX...-T0 and ZFSX...-P3 can be used for any T... and P... switches, as required Dimensions with frame W × H = 48 × 17 mm Dimensions with frame W × H = 88 × 27 mm
ZFSX-P3 027043		25 off	
BS 45×14-T0 029416		25 off	Letter height (mm) 3.5 5 7 10 Number of lines 2 2 1 1 Letters per line 20 14 11 9
BS 45×14-SOND-T0 034162		1 off	
BS 84×24-P3 031789		25 off	
BS 84×24-SOND-P3 036535		1 off	Letter height (mm) 3.5 5 7 10 Number of lines 4 3 2 2 Letters per line 39 26 20 25
ZS 60-T0 003201		1 off	Letter height (mm) 3.5 5 7 Number of lines 2(3) ¹⁾ 1 1 Letters per line 23 16 11
ZS-SOND-T0 003203		1 off	
ZS 60-P3 003202		1 off	Letter height (mm) 3.5 5 7 Number of lines 6 4 2 Letters per line 41 27 15
ZS-SOND-P3 003205		1 off	

T Rotary Switches, P Switch-Disconnectors

Accessories

Rotary Switches
Switch-Disconnectors

	For use with	Key withdrawal	Type suffix Article no. When ordered with basic unit	Price See Price List
S-T0 key operated lock mechanism, Front IP 53 Includes two keys 				
KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems	T0-.../E, .../EZ, .../I1, .../Z Up to 6 contact units T3-.../E, .../I2, .../Z Up to 5 contact units P1-.../E, .../I2, .../Z	Key withdrawal positions are programmed ex-works to match the switch	+S-T0 001753 +S-SOND(KMS...)-T0 903210 +S-SOND(SAE)-T0 003212 +S-SOND(SA...)-T0 914737	
KMS 2-10 ¹⁾ lock mechanism KMS 201-400 ¹⁾ lock mechanism Individual lock mechanisms, not suitable for master key systems There is no master key for KMS... lock mechanisms				
(SAE) = Individual lock mechanism supplied with a security certificate				
(SA...) = Master key system (with master key) supplied with a security certificate. See also note below.				
SVA-T3 cylinder lock, Front IP 65 Includes two keys 				
Key can be withdrawn in all positions				
KMS 1 lock mechanism Individual lock mechanism, not suitable for master key systems	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z	Key withdrawal positions are programmed ex-works to match the switch	+SVA-T3 050962 +SVA-SOND-KMS...-T3 907739 +SVA-SOND-KM...-T3 907738	
KMS 2-10 ¹⁾ lock mechanisms KMS 201-400 ¹⁾ lock mechanism Individual lock mechanisms, not suitable for master key systems				
KM... lock mechanisms				
Key withdrawable in positions as specified				
KMS 1 lock mechanism Switches with FS 908 suitable for use 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	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z	Withdrawal po- sitions are pro- grammed ex- works as or- dered	+SVA(...)-T3 907737 +SVA(...)-SOND-KMS...-T3 907734 +SVA(...)-SOND-SAE-T3 907736 +SVA(...)-SOND(SA...)-T3 914735	
KMS 2-10 ¹⁾ lock mechanisms KMS 201-400 ¹⁾ lock mechanisms Individual lock mechanisms, not suitable for master key systems				
(SAE) = Individual lock mechanism supplied with a security certificate				
(SA...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan (FO 276) showing the full con- figuration of the envisaged lock system. For subsequent part orders, sim- ply state the item number within the lock plan, e.g. (X4711, item 7).				

Notes

¹⁾ KMS 1: can be supplied ex-stock; KMS 2 - 9, 201 - 400
and master key systems: delivery time >6 weeks

T Rotary Switches, P Switch-Disconnectors

Accessories ["N-PIZ" 供应商](#)

Key with- drawal	Type	Price	Std. pack
	Article no.	See Price List	
	When ordered separately		
Key with- drawal positions can be programmed by user	S-T0 086709		1 off
	S-SOND(KMS...)-T0 903207		
	S-SOND(SAE)-T0 003209		
	S-SOND(SA...)-T0 991023		

Key with- drawal positions can be programmed by user	SVA-T3 050974		1 off
	SVA-SOND-KMS...-T3 907747		
	SVA-SOND-KM...-T3 907746		

Key with- drawal positions are programmed ex-works as ordered	SVA(...)-T3 907745		
	SVA(...)-SOND-KMS...-T3 907742		
	SVA(...)-SOND-SAE-T3 907744		
	SVA(...)-SOND-(SA...)-T3 914736		

Notes

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 FS 908, only in the 0 position. New positions for key withdrawal can be selected (even retroactively) by fitting VR-T0 locking cams.

The switching angle is determined by the switch.

When retrofitting the S-T0, use the front plate supplied with the switch.

Lock mechanism: standard KMS 1 (CES lock)

If required, other lock mechanisms or master key systems are available.

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.

When retrofitting the SVA-T3, used the front plate supplied with the switch.

Lock mechanism: standard KMS 1 (CES lock). If required, other lock mechanisms can be used, and if planned in advance, even master key systems. Individual positions or ranges can be locked (also with VR-T3 fitted by the user). The key cannot be withdrawn from positions which are not lockable. Where ranges are locked, switching without the key is possible only within a locked range.

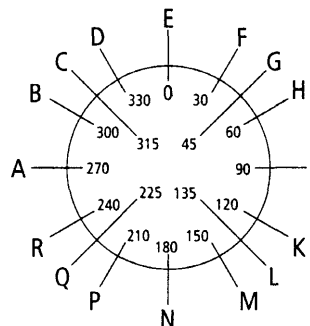
The lockable positions or ranges are shown below; use the code letters to state selection on order.

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 = Panic lock for Emergency-Stop and main switches, lockable in positions A and E; switching is still possible from E to A, but not from A to E.



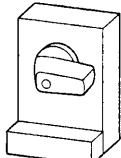
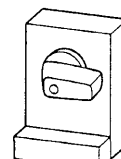
Letter S for panic lock with FS 908

Ordering example:

SVA(A-G)-SOND-(SAA 6294-1/2)

Rotary Switches P Switch-Disconnectors Accessories

Rotary Switches
Switch-Disconnectors

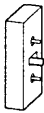
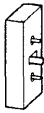
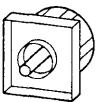
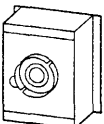
	For use with	Locking facility	Type suffix Article no. When ordered with basic unit	Price See Price List
SVC-T3 padlocking feature, Front IP 65				
In the depressed position, the locking slide is lockable with up to 3 padlocks				
				
All positions or ranges are lockable	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z	Lockable positions are programmed ex-works to match the switch	+SVC-T3 050963	
Specified positions or ranges are lockable Switches (on the right) with FS 908 may be used 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	Lockable positions are programmed ex-works to order	+SVC(...)-T3 907740	
DTV-T3 push-button interlock, padlockable, Front IP 65				
As SVC-T3, but with the following added function: With a padlock in place, it is possible to switch from an unlocked position or range into a locked position or range, but not the reverse.				
				
	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z Lockable with up to 2 padlocks	Lockable positions are programmed ex-works to match the switch	+DTV-T3 050961	
Specified positions locked Release mechanism can be locked with up to 2 padlocks	—	Lockable positions are programmed ex-works to order	+DTV(...)-T3 907733	
Locking cams (2 cams per set)				
User can select indexing position in which key can be withdrawn	S-T0 for all switching angles	—		
				
Changing the locked positions/ranges	SVA-T3 and SVC-T3 for all switching angles For DTV-T3: order 2 x VR-T3	—		
				
Keys				
				
For KMS 1 individual lock mechanism	S-T0, SVA-T3	—		
For KMS 2 – 10 or KMS 201 – 400 individual lock mechanisms	S-T0, SVA-T3	—		
For master key systems and individual lock mechanisms: state lock plan number and lock	S-T0, SVA-T3	—		

Accessories [查询"N-P1Z"供应商](#)

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. GHS-SA(A6294)-1/2.

T Rotary Switches, P Switch-Disconnectors

[查询"N-P1Z"供应商](#)
Rotary Switches
Switch-Disconnectors

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
Neutral poles			
Early-make, late-break			
			
Can be fitted to left and/or right of 3-pole P switch-disconnectors	P1-.../E, .../EA, .../EZ	-	
N-P1Z or HI11-P1/P3Z can be fitted to left only of P1-.../I2 switch-disconnectors	P1-.../Z, .../N, .../I2, .../IVS	+N-P1Z 000416	
	P3-.../E, .../EA	-	
	P3-.../Z, .../N, .../IVS P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	+N-P3Z 009036	
Auxiliary contacts			
One make contact, one break contact			
			
Can be fitted to left and/or right of 3-pole P switch-disconnectors	P1-.../E, .../EA, .../EZ P3-.../E, .../EA	+HI11-P1/P3E 064100	
N-P1Z or HI11-P1/P3Z can be fitted to left only of P1-.../I2 switch-disconnectors	P1-.../Z, .../N, .../I2, .../IVS P3-63/Z, .../N, .../I4, .../IVS P3-100/Z, .../N, .../I5, .../IVS	+HI11-P1/P3Z 064526	
Centre mounting accessories			
For single-hole fitting Mounting diameter 22.3 mm			
			
With front plate	T0-.../E, T3-.../E	+EZ-T0 001750	
Without front plate For engraved front plate	T0-.../E, T3-.../E	+EZ/OFS-T0 001751	
Mounting diameters 22.3 mm and 30.5 mm	T0-.../E, T3-.../E, P1-.../E	+EZ-P1 026222	
			
Service distribution board mounting accessories			
Including push-fit shaft			
			
For retrofitting of T0-.../XZ basic switches as T0-.../IVS into service distribution boards	T0-.../XZ	+IVS-T0 045472	

T Rotary Switches, P Switch-Disconnectors

Accessories [查询"N-P1Z"供应商](#)

Type	Price	
Article no.	See Price List	Std. pack
When ordered separately		

N-P1E 000651		5 off	The neutral contact is always early-make and late-break
N-P1Z 000652			Switching capacity of N-P1... equivalent to P1-32... contacts
N-P3E 062432			The neutral contact is always early-make and late-break
N-P3Z 064805			Switching capacity N-P3... equivalent to P3-100... contacts

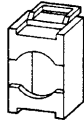
HI11-P1/P3E 061813		5 off	The make contact is always connected as a load-shedding contact, i.e. late-make, early-break.
HI11-P1/P3Z 062031		5 off	

EZ-T0 081622		1 off	Rapid snap-fitting in panel sides, plates and doors Legend plates from the RMQ range of control circuit devices can be used
EZ/OFS-T0 001869		1 off	
EZ-P1 091455		5 off	Screw-fixing enables one person to fit it into panel sides, plates and doors Legend plates from the RMQ range of control circuit devices can be used

IVS-T0 091114		1 off	Use the front plate of the basic switch
------------------	--	-------	---

Rotary Switches P Switch-Disconnectors Accessories

Rotary Switches
Switch-Disconnectors

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
Coupling drive			
Including push-fit shaft			
			
For fitting T0(T3)-.../XZ basic switch as a rear mounting switch Spare part for T0(T3)/(P1)-.../Z		-	
For conversion of T5 (B)-.../E flush mounting switch into a rear mounting switch Spare part for T5(B)/(P3)-.../Z		-	
Interlock sections			
			
With N- and PE conductor connection	T0-.../E, .../EZ T3-.../E, .../EZ P1-.../E, .../EZ	+UV-T0 038519	
	T5(B)-.../E P3-.../E	+UV-P3 030402	
	T0-.../Z T3-.../Z P1-.../Z	+UV-T0 038519	
For cover and door interlock With N- and PE conductor connection	T5(B)-.../Z P3-.../Z	+UV-P3 030402	
Interlock extensions			
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-T0¹⁾ 024662	
	UV-P3	+ZVV-P3²⁾ 024379	
			
Shaft extensions			
Up to four off, 25 mm each, can be plugged onto switch shaft	T0-.../Z T3-.../Z P1-.../Z	+ZAV-T0 023736	
	T5(B)-.../Z P3-.../Z	+ZAV-P3 026623	
			
Notes			
	¹⁾ For use only with T0/T3-.../Z and P1-.../Z		
	²⁾ For use only with T5(B)-.../Z and P3-.../Z		

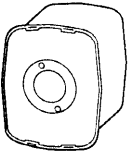
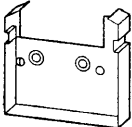
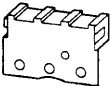
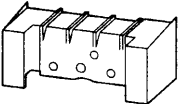
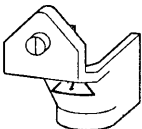
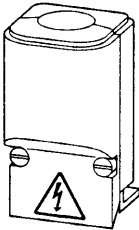
T Rotary Switches, P Switch-Disconnectors

Accessories [查询"N-PIZ"供应商](#)

Type	Price		
Article no.	See Price List	Std. pack	
When ordered separately			
DE-T0 093487		1 off	
DE-P3 093972		3 off	
UV-T0 019925		1 off	Fits on the reverse of the flush mounting switch
UV-P3 048289			
UV-T0 019925			With interlocking function for rear mounting switches
UV-P3 048289			
ZVV-T0 022298		10 off	Notes relating to installation in enclosures → Page 07/107
ZVV-P3 024671		10 off	
ZAV-T0 027044		10 off	Notes relating to installation in enclosures → Page 07/107
ZAV-P3 029417		10 off	

T Rotary Switches, P Switch-Disconnectors

[查询"PIZ"供应商](#)

	For use with	Type suffix Article no. When ordered with basic unit	Price See Price List
Sleeves/covers For flush mounting switches with up to four 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 on 	T6-160-6/...	—	
Cover assembly to protect the 6 terminals on 	T8-3-8342/...	—	

T Rotary Switches, P Switch-Disconnectors

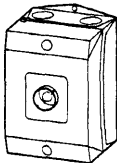
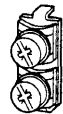
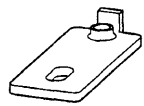
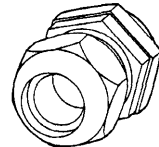
Accessories ["N-PIZ" 供应商](#)

Type	Price		
Article no.	See Price List	Std. pack	
When ordered separately			
H3-T0 093828		1 off	Cable entries Quantity: 2 × Ø 20 mm + 2 × Ø 15 mm Cross-section: 5 × 6 mm ² 5 × 2.5 mm ²
H1-T5 045062		1 off	Can be used for input and/or output wiring
HZ-T5 045063		10 off	1 × HZ-T5 required per contact unit
H-P1 017253		5 off	Can be used for input and/or output wiring
H-P14 019626		5 off	
H-P3 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.
H-T6-160 200183		1 off	
H-T8 200184		1 off	

T Rotary Switches, P Switch-Disconnectors

查询"N-P1Z"供应商
Accessories

Rotary Switches
Switch-Disconnectors

	For use with	Type Article no.	Price See Price List	Std. pack										
Insulated enclosures ¹⁾ IP 65 ²⁾ Totally insulated														
														
1 – 2 contact units	T0-.../XZ	CI-K1-T0-2 207435		1 off	Cable sizes which may be pushed through the membrane <table><tr><th>Type</th><th colspan="2">Main/control current</th></tr><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></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	CI-K1-T0-4 207436												
1 – 2 contact units	T3-.../XZ P1-...	CI-K2-T3-2 207437												
3 – 5 contact units	T3-.../Z	CI-K2-T3-5 207438												
1 – 2 contact units	T5B-.../E P3-63/...	CI-K4-T5B-2 207439												
3 – 4 contact units	T5B-.../Z	CI-K4-T5B-4 207440												
1 – 2 contact units	T5-.../Z P3-100/...	CI-K5-T5-2 207441			Converts T5-.../Z into T5-.../I5 and T5B-.../E into T5B-.../I4: Order AW-T5-... extension terminals in addition → Page 07/069									
3 – 4 contact units	T5-.../Z	CI-K5-T5-4 207442												
Neutral terminal														
For connection of 5th conductor														
	T0-.../I1, CI-K1-T0-... T3-.../I2, CI-K2-T3-... P1-.../I2	K-CI-K1/2 207451		1 off										
	T5B-.../I4, CI-K4-T5B-..., P3-.../I4	K-CI-K4 206916		1 off										
Set of external fixing brackets														
	T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5,	AB-CI-K4/5 206914		1 off										
Metric cable glands to EN 50 262														
	Thread size			1 off										
	M20	V-M20 206910												
	M25	V-M25 206911												
	M32	V-M32 206912												
	M50	V-M50 206913												
Metric cable grommets to EN 50 262														
	For M20	KT-M20 207602		100 off										
	For M25	KT-M25 207603												
	For M32	KT-M32 207604												

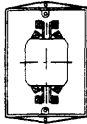
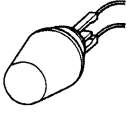
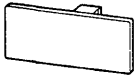
Notes

¹⁾ Enclosures designed for metric cable glands to EN 50 262

²⁾ Max. degree of protection with cable passing through membrane: IP 54

T Rotary Switches, P Switch-Disconnectors

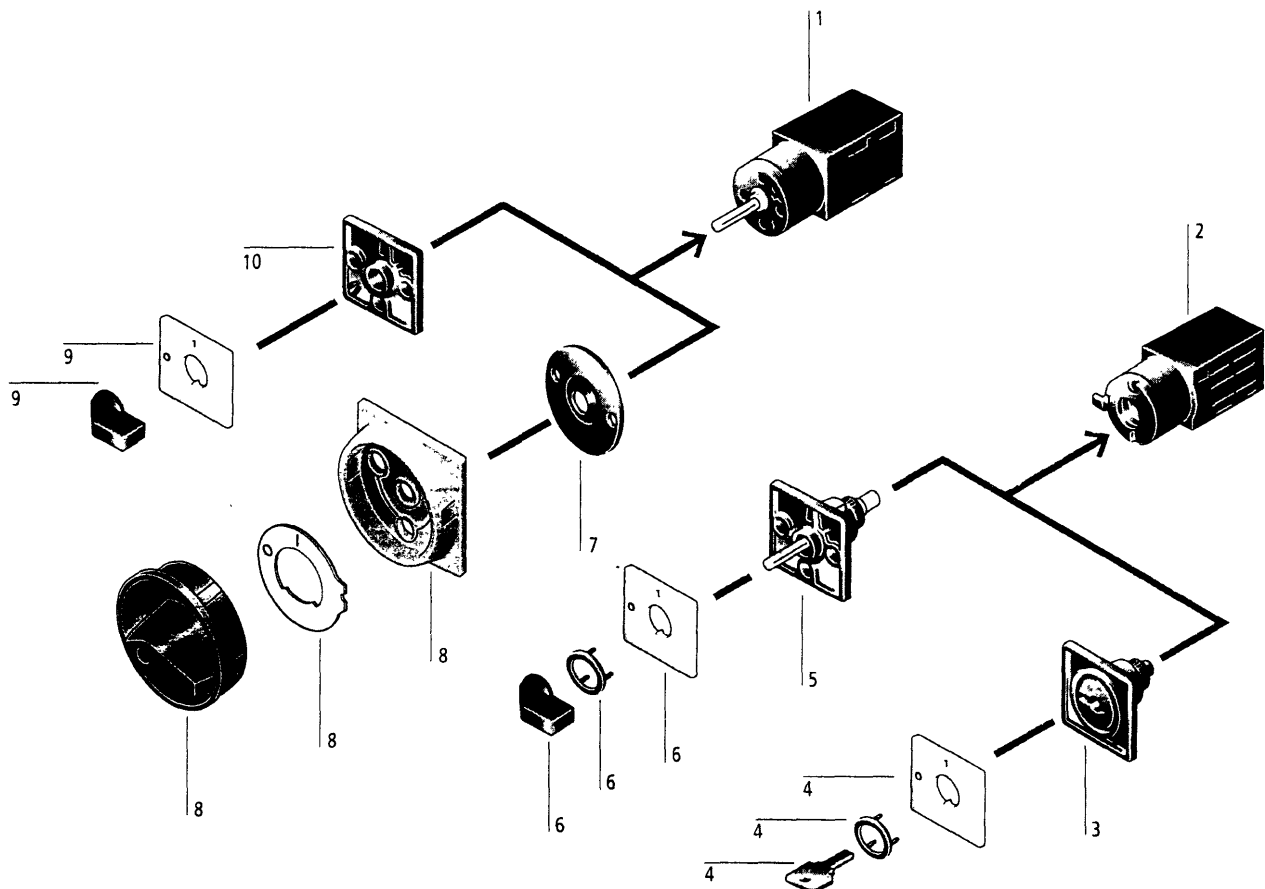
Accessories [查询"N-P1Z"供应商](#)

	For use with	Type Article no.	Price See Price List	Std. pack	
Set of extension terminals					
For cable connection in the enclosure					
					
For the lowest contact unit	T5B-.../I4 T5-.../I5	AW-T5-1/2 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	AW-T5-3/4 032602		1 off	
Indicator lights with neon bulb					
For mounting in enclosure covers					
					
Colour: white Voltage range: 230–400 V	P1-.../I2, P3-.../I..., T...-.../I...	L-PKZ 0 (400 V) 082152		10 off	Other voltages → Page 08/019
Colour: green Voltage range: 230–400 V		L-PKZ 0 -GN (400 V) 082155		5 off	
Colour: red Voltage range: 230–400 V		L-PKZ 0-RT (400 V) 082158		5 off	
Indicator lights, conical, without neon bulb					
For mounting in cable entries					
					
Colour: red	P1-.../I2, P3-.../I..., T...-.../I...	L-CIK-R 207033		10 off	For neon bulbs and BA 9s filament bulbs up to 2.4 W
Colour: white		L-CIK-W 207034			
Colour: green		L-CIK-G 207035			
Colour: yellow		L-CIK-Y 207036			
XGKS component labelling system					
→ Page 15/090					
Label plate with fixing stud					
					
18 × 17.5 mm	T0-... T3-... T5B-... P1-... P3-...	XGKS-Z 207508		500 off	

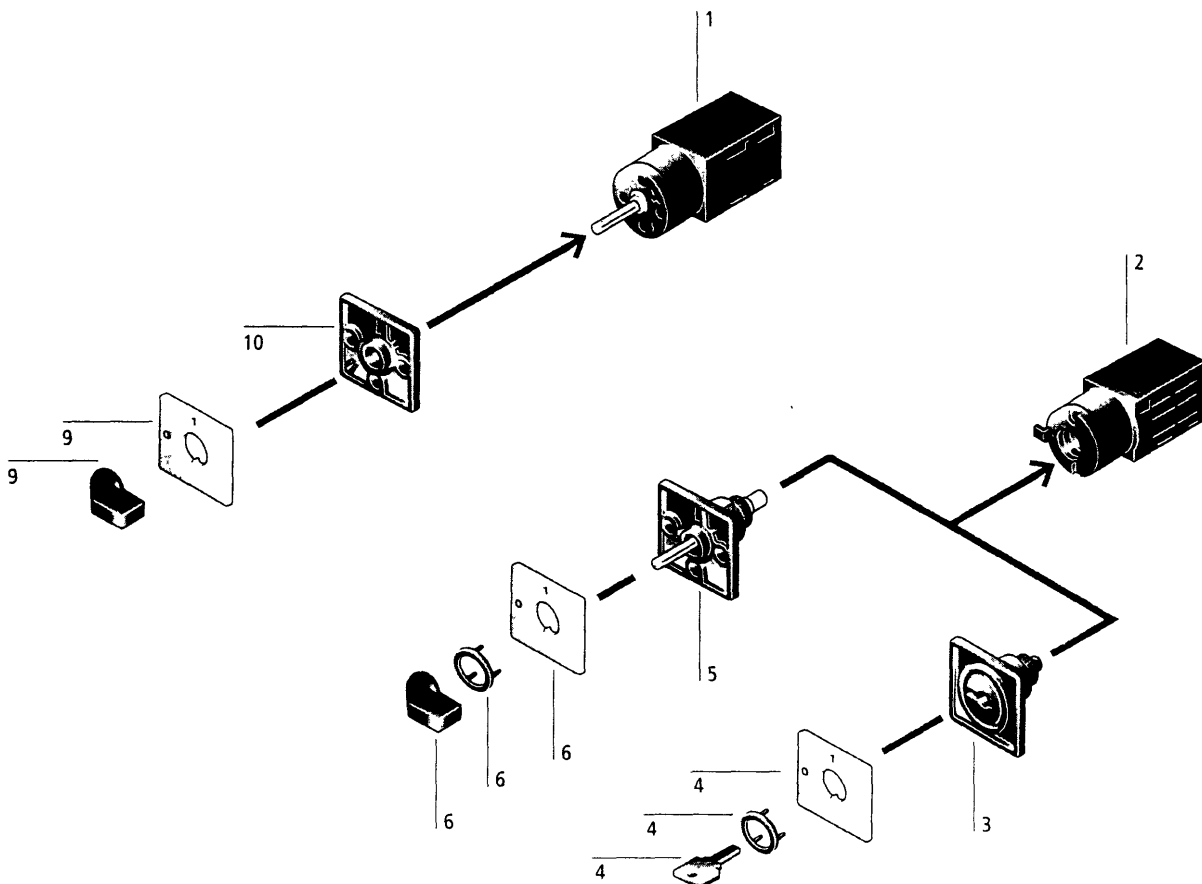
Rotary Switches
Switch-Disconnectors

Mini Rotary Switches System Overview

TM On-Off switches



TM control switches



TM Mini Rotary Switches

System Overview

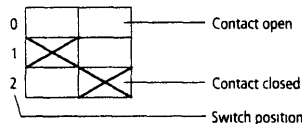
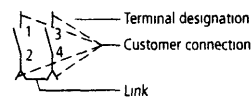
Flush mounting (.../E) 1 Front IP 65 Fitting from the rear in panel sides, plates or doors Terminal: Pozidriv screw Finger-proof → Page 07/072	Centre mounting (.../EZ) 2 Front IP 65 Mounting in a standard 16.2 mm aperture, or in 22.3 mm to IEC/EN 60 947-5-1 following removal of supplied adapter MBS... legend plates from the control circuit device range can be used (see Page 03/074) → Page 07/072	Centre mounting switches, standard 5,6 With black thumb-grip and silver-coloured front plate → Page 07/072
Flush mounting control circuit isolators (.../E/SVB) 1 Front IP 65 To IEC/EN 60 947-5 Lockable in the Off position using 2 padlocks (4 mm Ø) or 1 padlock (6 mm Ø) Can be used at up to 250 V AC per contact Up to 6 contacts admissible → Page 07/072	Centre mounting, key operated 3,4 Two keys supplied Option for key withdrawal at 90° using KABA Micro cylinder lock Option for key withdrawal at 60° using RONIS cylinder lock The position in which the key is to be withdrawable must be stated → Page 07/081	Control circuit isolators 7,8 With red rotary handle and yellow locking collar Lockable in the 0 (Off) position → Page 07/072
		Flush mounting switches, standard 9,10 With black thumb-grip and silver-coloured front plate → Page 07/072

Product attributes

Contact chamber

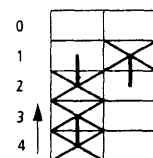
- Rated uninterrupted current 10 A
- Gold-plated contacts for safe switching of extra low voltages and currents even in corrosive atmospheres
- Positively opening contacts
- 1 – 2 contacts per contact chamber, up to 16 contacts per switch
- Switching of differing potentials
- Control circuit reliability

Circuit diagrams (examples)



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

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

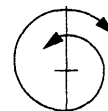


Switching from 2 to 3:
Contact 1 – 2 opens briefly.

Switching from 3 to 4:
Contact 1 – 2 remains closed

Switch position

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



TM Mini Rotary Switches

Control Circuit Isolators, On-Off Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram

Front plate no.

no. of
polesFlush mounting
Front IP 65Centre mounting
Front IP 65Type
Article no.Price
See Price
ListType
Article no.Price
See Price
List

Control circuit isolators, 90°

With padlocking facility, lockable in the Off position
Up to 250 V AC for each contact

1

TM-1-8290/E/SVB
045477

-



2

TM-1-8291/E/SVB
045478

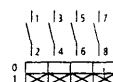
-



3

TM-2-8292/E/SVB
045484

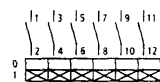
-



3+N

TM-2-8293/E/SVB
045485

-



6

TM-3-8326/E/SVB
045498

-

On-Off switches, 90°



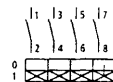
1

TM-1-8290/E
070131TM-1-8290/EZ
000693

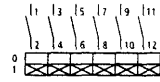
2

TM-1-8291/E
072504TM-1-8291/EZ
015073

3

TM-2-8292/E
074877TM-2-8292/EZ
015096

3+N

TM-2-8293/E
077250TM-2-8293/EZ
045486

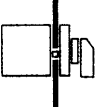
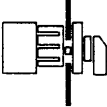
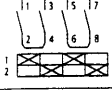
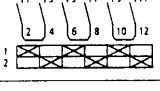
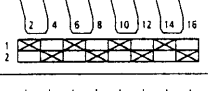
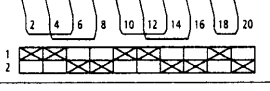
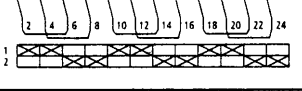
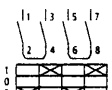
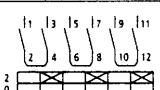
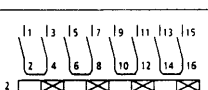
6

TM-3-8326/E
079623TM-3-8326/EZ
045499

Standard pack: 1 off

TM Mini Rotary Switches

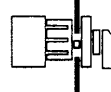
Control Switches Changeover Switches

Circuit diagram	Front plate no.	no. of poles	Flush mounting Front IP 65	Centre mounting Front IP 65
				
			Type Article no.	Price See Price List Type Article no. Price See Price List
Changeover switches without 0 position, 60°				
	 F 072	1	TM-1-8220/E 081996	TM-1-8220/EZ 000692
	 F 072	2	TM-2-8221/E 084369	TM-2-8221/EZ 015197
	 F 072	3	TM-3-8222/E 086742	TM-3-8222/EZ 045493
	 F 072	4	TM-4-8223/E 089115	TM-4-8223/EZ 046119
	 F 072	5	TM-5-8369/E 091488	TM-5-8369/EZ 046126
	 F 072	6	TM-6-8370/E 093861	TM-6-8370/EZ 046130
Changeover switches with 0 (Off) position, 60°				
	 F 071	1	TM-1-8210/E 096234	TM-1-8210/EZ 015137
	 F 071	2	TM-2-8211/E 098607	TM-2-8211/EZ 015166
	 F 249	3	TM-3-8212/E 010807	TM-3-8212/EZ 045491
	 F 249	4	TM-4-8213/E 013180	TM-4-8213/EZ 045847
Standard pack: 1 off				

TM Mini Rotary Switches

Control Switches, Changeover Switches, Hand/Auto Switches

Rotary Switches
Switch-Disconnectors

Circuit diagram	Front plate no.	no. of poles	Flush mounting Front IP 65	Centre mounting Front IP 65	Type	Price	Type	Price
					Article no.	See Price List	Article no.	See Price List
Changeover switches with 0 (Off) position, 90°								
		1	TM-1-8218/E 015553	TM-1-8218/EZ 045476				
		2	TM-2-8219/E 017926	TM-2-8219/EZ 045482				
		3	TM-3-8299/E 020299	TM-3-8299/EZ 045497				
		3+N	TM-4-8294/E 022672	TM-4-8294/EZ 046121				
Hand/Auto switches, 60°								
		1	—	TM-1-8220 F288/EZ 016925				
		1	TM-1-15431/E 025045	TM-1-15431/EZ 000691				
		2	TM-2-15432/E 027418	TM-2-15432/EZ 016878				
		3	TM-3-15433/E 029791	TM-3-15433/EZ 045490				
Changeover switches with spring-return from both directions, 30°								
		1	TM-1-8214/E 032164	TM-1-8214/EZ 016673				
		2	TM-2-8215/E 034537	TM-2-8215/EZ 045481				
		3	TM-3-8216/E 036910	TM-3-8216/EZ 045492				

Standard pack: 1 off

TM Mini Rotary Switches

Control Switches Step Switches

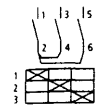
Circuit diagram

Front plate no.

no. of
polesFlush mounting
Front IP 65Centre mounting
Front IP 65Type
Article no.Price
See Price
ListType
Article no.Price
See Price
List

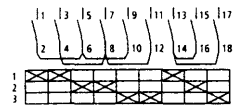
Step switches without 0 position, 60°

3 steps



F 076

1

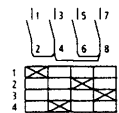
TM-2-8230/E
039283TM-2-8230/EZ
000701

F 076

3

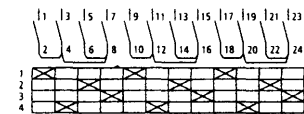
TM-5-8270/E
041656TM-5-8270/EZ
046124

4 steps



F 077

1

TM-2-8231/E
044029TM-2-8231/EZ
000700

F 077

3

TM-6-8271/E
046402TM-6-8271/EZ
046128

Standard pack: 1 off

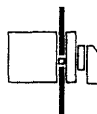
TM Mini Rotary Switches

TM Mini Rotary Switches

Rotary Switches
Switch-Disconnectors

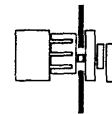
Circuit diagram

Front plate no.

no. of
polesFlush mounting
Front IP 65Centre mounting
Front IP 65

Type
Article no.

Price
See Price
List

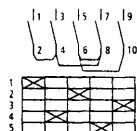


Type
Article no.

Price
See Price
List

Step switches without 0 position

5 steps, 60°

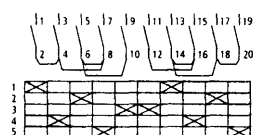


F 078

1

TM-3-8232/E
039298

TM-3-8232/EZ
015592



F 078

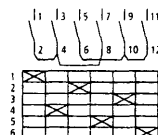
2

TM-5-8252/E
041671

TM-5-8232/EZ
046123

6 steps, 60°

Without complete rotation

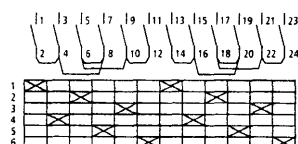


F 079

1

TM-3-8233/E
053521

TM-3-8233/EZ
015630



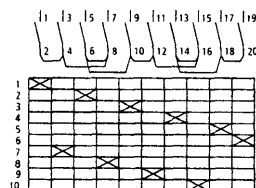
F 079

2

TM-6-8253/E
055894

TM-6-8253/EZ
046127

10 steps, 30°



F 011

1

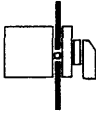
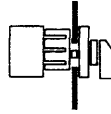
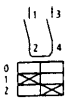
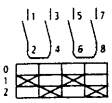
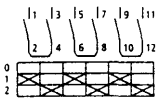
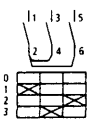
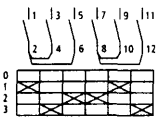
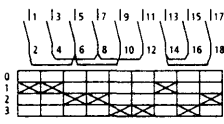
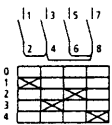
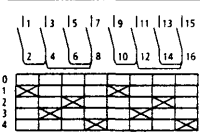
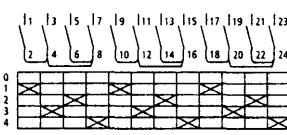
TM-5-8237/E
069150

TM-5-8237/EZ
015661

Standard pack. 1 off

TM Mini Rotary Switches

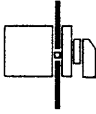
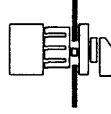
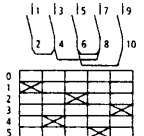
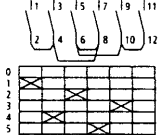
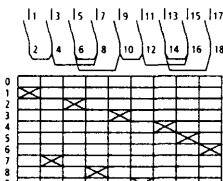
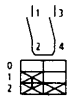
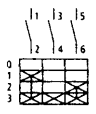
Control Switches Step Switches

Circuit diagram	Front plate no.	no. of poles	Flush mounting Front IP 65	Centre mounting Front IP 65
				
			Type Article no.	Price See Price List Type Article no. Price See Price List
Step switches with additional 0 position				
2 steps, 60°				
		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
	F 075			
3 steps, 45°				
		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
	F 109			
4 steps, 30°				
		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
	F 002			

Standard pack: 1 off

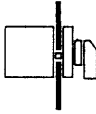
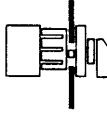
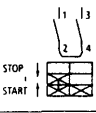
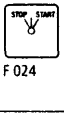
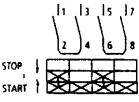
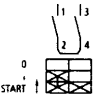
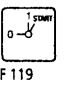
TM Mini Rotary Switches

Control Switches: Step Switches, Group Switches

Circuit diagram	Front plate no.	no. of poles	Flush mounting Front IP 65	Centre mounting Front IP 65
				
			Type Article no.	Price See Price List Type Article no. Price See Price List
Step switches with additional 0 position, 30°				
5 steps				
	 F 003	1	TM-3-8243/E 079624	TM-3-8243/EZ 015537
6 steps				
	 F 004	1	TM-3-8244/E 081997	TM-3-8244/EZ 045495
9 steps				
	 F 007	1	TM-5-8247/E 009741	TM-5-8247/EZ 015565
Group switches				
2 groups, 60°				
	 F 075	1	TM-1-8310/E 084370	TM-1-8310/EZ 045479
3 groups, 30°				
	 F 001	1	TM-2-8311/E 086743	TM-2-8311/EZ 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 IP 65	Centre mounting Front IP 65
				
			Type Article no.	Price See Price List
			Type Article no.	Price See Price List
On-Off spring-return switches, 30°				
Off spring-return switches				
		1	TM-1-8174/E 089116	TM-1-8174/EZ 016646
On spring-return switches				
		1	TM-1-8175/E 091489	TM-1-8175/EZ 015690
On-Off spring-return switches				
		1	TM-1-8176/E 093862	TM-1-8176/EZ 016714
		2	TM-2-8183/E 096235	TM-2-8183/EZ 045480
On-Off spring-return switches, 90°/30°				
With spring-return from START to 1				
		1	TM-1-8178/E 098608	TM-1-8178/EZ 016786

Standard pack: 1 off

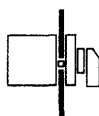
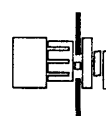
TM Mini Rotary Switches

Control Switches, Reversing Switches, Coding Switches

上海 NPIZ 供应商

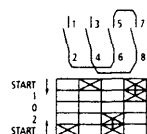
Circuit diagram

Front plate no.

no. of
polesFlush mounting
Front IP 65Centre mounting
Front IP 65Type
Article no.Price
See Price
ListType
Article no.Price
See Price
List

Reversing switches

With spring-return from START to 1 or 2, 60°/30°

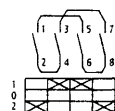


F 121

1

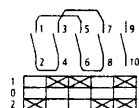
TM-2-8177/E
010808TM-2-8177/EZ
016838

Reversing switches, 60°



F 071

2

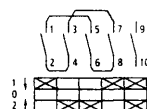
TM-2-8400/E
013181TM-2-8400/EZ
045488

F 071

3

TM-3-8401/E
015554TM-3-8401/EZ
045500

Reversing switches with spring-return to 0, 30°

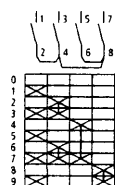


F 025

3

TM-3-8228/E
017927TM-3-8228/EZ
045494

Coding switches BCD Code 0 – 9, 30°

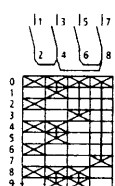


F 007

1

TM-2-8550/E
020300TM-2-8550/EZ
000699

Complementary BCD Code 0 – 9, 30°

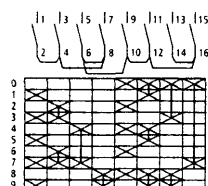


F 007

1

TM-2-8551/E
022673TM-2-8551/EZ
045489

BCD Code 0 – 9 + complement, 30°



F 007

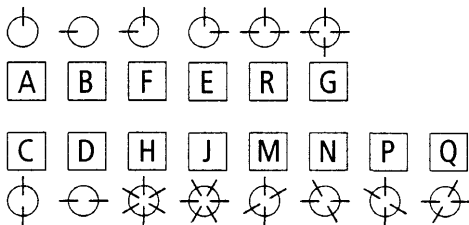
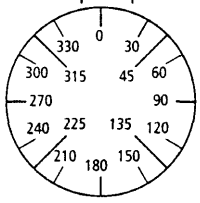
1

TM-4-8552/E
025046TM-4-8552/EZ
046122

Standard pack. 1 off

TM Mini Rotary Switches

Accessories [查询"N-PIZ"供应商](#)

	Type	Price
	Article no.	See Price List
TM non-standard front plates		
Volume price structure applies when ordered with switch		
Quantity of switches:		
1 – 4	+FS-SOND-TM 020953	
5 – 9	+FS-SOND-TM>4 000543	
10 – 19	+FS-SOND-TM>9 000547	
20 – 49	+FS-SOND-TM>19 000542	
50 – 99	+FS-SOND-TM>49 000546	
> 99	+FS-SOND-TM>99 000548	
Silver-coloured front plate with black lettering, inscribed on the reverse. It is not necessary to state .../E or .../EZ in the type suffix. Individual front plates → Page 07/053		
Lock mechanism, key operated		
Includes two keys		
KABA lock for 90° switching angle		
Degree of protection IP 65		
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	
The key can be withdrawn only in certain positions, see diagram 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 9 o'clock. The key is not withdrawable in positions which exceed the total switching angle of the switch.		
Options for key withdrawal		
		
RONIS lock for 60° switching angle		
Degree of protection IP 55		
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	
For example of position marking see → Page 07/109		
		

Standard pack: 1 off



T 本海"ND17"供应商

T0, T3 Non-Standard Switches

Rotary Switches
Switch-Disconnectors

Type	Price See Price List	Std. pack	Type	Price See Price List	Std. pack
T0 rotary switches		1 off	T0 rotary switches		1 off
T0-1-SOND.../E			T0-5-SOND.../E		
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 ..) and are priced accordingly. Use the Initial Order form on → Page 07/110 for any T rotary switch combination

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

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

T Rotary Switches

T0, T3 Non-Standard Switches

Type	Price See Price List	Std. pack	Type	Price See Price List	Std. pack
T3 rotary switches		1 off	T3 rotary switches		1 off
T3-1-SOND.../E			T3-5-SOND.../E		
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-T5 TM Non-Standard Switches

查詢 N-PYZ 供應商

Rotary Switches
Switch-Disconnectors

Type	Price See Price List	Std. pack	Type	Price See Price List	Std. pack
T5B rotary switches		1 off	T5B rotary switches		1 off
T5B-1-SOND.../E			T5B-5-SOND.../E		
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.../V/SVB		
T5B-1-SOND.../I4/SVB			T5B-5-SOND.../V/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.../V/SVB		
T5B-2-SOND.../EA/SVB			T5B-6-SOND.../V/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.../V/SVB		
T5B-2-SOND.../Z			T5B-7-SOND.../V/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.../V/SVB		
T5B-3-SOND.../V/SVB			T5B-8-SOND.../V/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...) and are priced accordingly. Use the Initial Order form on → Page 07/110 for any T rotary switch combination.

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

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

T Rotary Switches

T5B, T5, TM Non-Standard Switches

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

T Rotary Switches, P Switch-Disconnectors

上海"NIPIZ"供应商

Rotary Switches
Switch-Disconnectors

Language	Language code no.	Type suffix	Type suffix	Type	Type
		When ordered with basic unit	When ordered with basic unit	When ordered separately	When ordered separately
		+ZFS....-T0	+ZFS....-P3	ZFS....-T0	ZFS....-P3
		Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾	Article no. ¹⁾
		See Price List	See Price List	See Price List	See Price List

Add-on front plates, clip-on



For use with front plates and for padlocking features. They comprise a black label mount and an aluminium-coloured insert plate. Inscription: "Main Switch – Open only in the Off position"

German	61	205499	205516	205533	205550
English	62	205500	205517	205534	205551
Bulgarian	64	205501	205518	205535	205552
Danish	65	205502	205519	205536	205553
Finnish	66	205503	205520	205537	205554
Dutch	67	065744	065747	065750	065753
Italian	68	065745	065748	065751	065754
Greek	69	205504	205521	205538	205555
Norwegian	70	205505	205522	205539	205556
Polish	71	205506	205523	205540	205557
Portuguese	72	205507	205524	205541	205558
Romanian	73	205508	205525	205542	205559
Russian	74	205509	205526	205543	205560
Swedish	75	205510	205527	205544	205561
Serbo-Croat	76	205511	205528	205545	205562
Spanish	77	065746	065749	065752	047422
Czech	78	205512	205529	205546	205563
Turkish	79	205513	205530	205547	205564
Hungarian	80	205514	205531	065748	205565
Afrikaans	81	205515	205532	205549	205566

Notes

¹⁾ For ordering purposes, insert the language code number into the type reference/type suffix

T Rotary Switches, P Switch-Disconnectors

Contact sequence [查询"NTPEZ"供应商](#)

	Basic type	Contact sequence		Basic type	Contact sequence
Main switches On-Off switches Safety switches without auxiliary contacts Switching angle 90°	T0-1-8200/...		Main switches On-Off switches Safety switches with auxiliary contacts Switching angle 90°	T0-2-15679/...	
	T3-1-8200/...			P1-25/.../HI11	
	T5B-1-8200/...			P1-32/.../HI11	
	T5-1-8200/...			P3-63/.../HI11	
	T0-1-102/...			P3-100/.../HI11	
	T3-1-102/...			T0-3-15683/...	
	T5B-1-102/...			T3-3-15683/...	
	T5-1-102/...			P1-25/.../N/HI11	
	T0-2-1/...			P1-32/.../N/HI11	
	P1-25/...			P3-63/.../N/HI11	
	P1-32/...			P3-100/.../N/HI11	
	P3-63/...			T0-3-15681/...	
	P3-100/...			T3-3-15681/...	
	T6-2/...			T5B-3-8901/...	
	T0-2-8900/...			TB-3-8901/...	
	P1-25/.../N			T0-4-15682/...	
	P1-32/.../N			T3-4-15682/...	
	P3-63/.../N			T5B-4-15682/...	
	P3-100/.../N			T5-4-15682/...	
	T0-3-8342/...			T6-160-6/...	
	T3-3-8342/...			T8-3-8342/...	
	T5B-3-8342/...			T5B-4-8903/...	
	T5-3-8342/...			T5-4-8903/...	
	T0-4-8344/...				
	T3-4-8344/...				
	T5B-4-8344/...				
	T5-4-8344/...				

T Rotary Switches

Technical Data 查询NATZ"供应商

				T0-...	T3-...	T5B-...	T5-...	T6-...(T6-160)	T8-...	
General										
Standards				IEC/EN 60 947, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60 947 Part 3 Load-break switches to IEC/EN 60 947 Part 3 Shipping classifications → Page 17/008						
Lifespan, mechanical		Operations	Ops./h	> 10 ⁶	5 × 10 ⁵	5 × 10 ⁵	5 × 10 ⁵	> 10 ⁵	> 10 ⁵	
Max. operating frequency				3000	3000	3000	3000	50	50	
Climatic proofing				Damp heat, constant, to IEC 60 068 Part 2-3 Damp heat, cyclic, to IEC 60 068 Part 2-30						
Ambient temperature	Open	Min./Max.	°C	-25/+50	-25/+50	-25/+50	-25/+50	-25/+50	-25/+50	
	Enclosed	Min./Max.	°C	-25/+40	-25/+40	-25/+40	-25/+40	-25/+40	-25/+40	
Mounting position				As required						
Dimensions				→ Page 07/095		→ Page 07/100		→ Page 07/102		
Weights				→ Page 18/025						
Mechanical shock resistance (shock duration 20 ms)				g	> 15	> 15	> 15	> 15	–	
Contacts										
Rated operational voltage U _e				V AC	690	690	690	690	690	
Rated impulse withstand voltage U _{imp}				V	6000	6000	6000	6000 (8000) ²⁾	8000	
Overvoltage category/pollution degree					III/3	III/3	III/3	III/3	III/3	
Rated uninterrupted current I _u open/I _{the} enclosed (with max. cable connected)				A	22/20	35/32	72/63	100/85	125 (160) ²⁾	
Load-carrying capacity in intermittent operation, Class 12, AB 60/40/25				% DF	1.3/1.6/2 × I _e					
Short-circuit rating max. fuse				A gL	20	25	80	100	200 (160) ²⁾	
Rated short-time withstand current (1 s current) I _{cw}				A _{rms}	320	650	1300	1850	2000 (3000) ²⁾	
Safe isolation to VDE 0106 Part 101 and Part 101 A1 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°) ³⁾	
Contact units				Max.	11	11	10	10	3	
Double-break contacts				Max.	22	22	20	20	6	
Current heat loss per contact at I _e				W	0,6	1,1	4,5	7,5	11	
Terminal capacity										
Solid or stranded ¹⁾				mm ²	1 × (1 – 2.5)	1 × (1 – 6)	1 × (2.5 – 35)	1 × (2.5 – 35)	1 × 70 (95) ²⁾	150
				mm ²	2 × (1 – 2.5)	2 × (1 – 6)	2 × (2.5 – 16)	2 × (2.5 – 16)	2 × 25	–
Flexible including ferrule ¹⁾ (ferrule to DIN 46 228)				mm ²	1 × (0.75 – 1.5)	1 × (0.75 – 4)	1 × (1.5 – 25)	1 × (1.5 – 25)	1 × 50 (50) ²⁾	120
				mm ²	2 × (0.75 – 1.5)	2 × (0.75 – 4)	2 × (1.5 – 10)	2 × (1.5 – 10)	2 × 16	–
Flat strip connection				mm ²	–	–	–	–	1 strip 25 × 5 ³⁾ 2 strips 20 × 3 ³⁾	
Terminal screw					M3,5	M4	M6	M6	M12	
				T0-1- to T0-4-	T3-1- to T3-6-	T5B-...	T5-...	T6-... (T6-160-6)	T8-3-8342	

Switch-disconnectors

(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)	6
Isolating characteristics to IEC/EN 60 947		Up to V AC	500	500	660/690	660/690	660/690

Notes

- ¹⁾ T0(3), (6), (8)...:
Max. 2 sizes difference admissible between 2 conductors
T5(B)-...:
Max. 2 sizes difference admissible between 2 conductors
²⁾ For T6-160/...
³⁾ For T8 - 3 - 8342/..

T Rotary Switches

Technical Data [查询"DP1Z"供应商](#)

			T0-...	T3-...	T5B-...	T5-...	T6-...(T6-160)	T8-...	
Switching capacity									
AC									
	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
AC-21A	Load-break switches	Rated operational current I_e 380 – 440 V, 3 ~	A	12	25	63	80	125 (160)	315
AC-3	Motor load switches, for operational switching Star-delta values $Y \Delta$: for star-delta switches without 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	–	–
		380 – 440 V, 3~	kW	4	12	22	30	37 (45)	55
		380 – 440 V, $Y \Delta$	kW	5.5	18.5	37	45	–	–
		500 V, 3~	kW	5.5	15	22	37	37	37
		500 V, $Y \Delta$	kW	7.5	22	37	55	–	–
		660/690 V, 3~	kW	4	15	22	30	22	37
		660/690 V, $Y \Delta$	kW	5.5	22	37	45	–	–
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	–	–
DC									
DC-1	Load-break switches L/R = 1 ms	Rated operational current I_e	A 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)	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)	–	–	–
		Figures in brackets: number of contacts to be switched in series							
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 24 V DC, 10 mA		Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100 000 operations					

T6 – 160 – 6/...
T8 – 3 – 8342/...

Auxiliary contacts

Standards

Control circuit isolators to IEC/EN 60 947 Part 5 ②

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 at 220 – 240/380 – 415/500 V	A	6/4/3
Short-circuit rating without welding Maximum fuse	A gL	10
Terminal capacity s = solid	Min. s/f	mm ² 0.75/0.5
f = flexible with ferrule	Max. s/f	mm ² 2.5/1.5
Control circuit reliability 24 V DC, 10 mA	Fault probability	H _F < 10 ⁻⁵ , < 1 fault in 100 000 operations



P Switch-Disconnectors

查询"NP17"供应商

Rotary Switches
Switch-Disconnectors

				P1-25	P1-32	P3-63	P3-100	
General								
Standards				IEC/EN 60 947, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60 947-3				
Lifespan, mechanical		Operations		3×10^5	3×10^5	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, cyclic, 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 07/103				
Weights				→ Page 18/025				
Mechanical shock resistance (half-sinusoidal shock 20 ms)				g	> 20	> 20	> 20	> 20
Contacts								
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 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	660/690	660/690	660/690	660/690
Safe isolation to VDE 0106 Part 101 and Part 101 A1 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.	7	7	7	7
Current heat loss per contact at I_e				W	1.1	1.8	4.5	7.5
Terminal capacity								
Solid or stranded ¹⁾			mm ²	1 × (1.5 – 6)	1 × (1.5 – 6)	1 × (2.5 – 35)	1 × (2.5 – 35)	
			mm ²	2 × (1.5 – 6)	2 × (1.5 – 6)	2 × (2.5 – 10)	2 × (2.5 – 10)	
Flexible including ferrule ¹⁾ (ferrule to DIN 46 228)			mm ²	1 × (1 – 4)	1 × (1 – 4)	1 × (1.5 – 25)	1 × (1.5 – 25)	
			mm ²	2 × (1 – 4)	2 × (1 – 4)	2 × (1.5 – 6)	2 × (1.5 – 6)	
Terminal screw					M4	M4	M5	M5
Notes				Main switch characteristics to IEC/EN 60 204; positive opening of contacts, operator element positively located on shaft				
				1) P1-...: Max. 2 sizes difference admissible between 2 conductors P3-...: Max. 2 sizes difference admissible between 2 conductors				

P Switch-Disconnectors

Technical Data [查询"NB1Z"供应商](#)

				P1-25	P1-32	P3-63	P3-100
Switching capacity							
AC							
	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
DC							
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...

Switched neutral

Switching capacity	As P1-32	As P3-100
--------------------	----------	-----------

HI11-P1/P3

Auxiliary contacts**Standards**Control circuit isolators to IEC/EN 947
Part 5/EN 60 947 Part 5 ☉

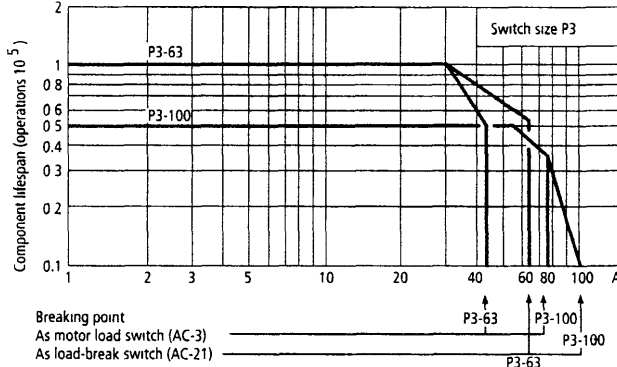
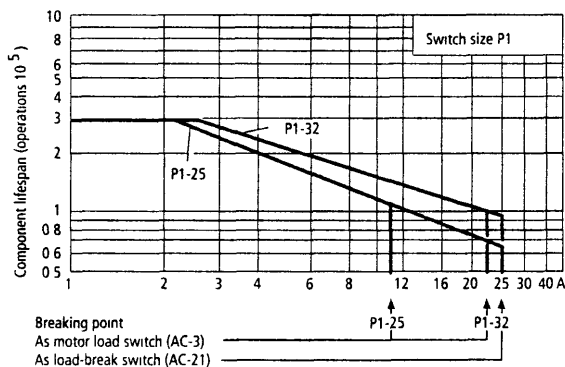
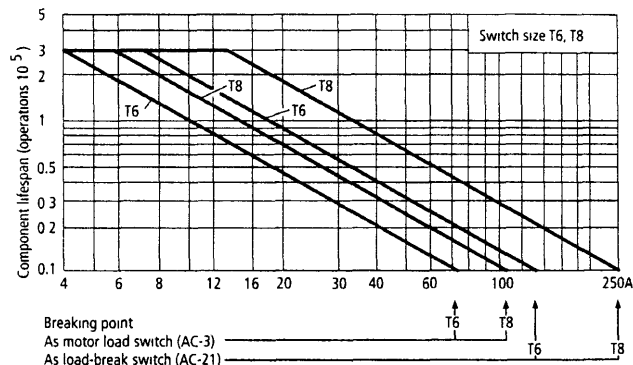
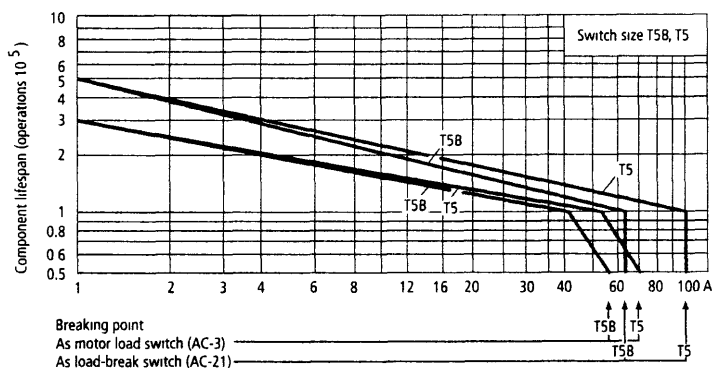
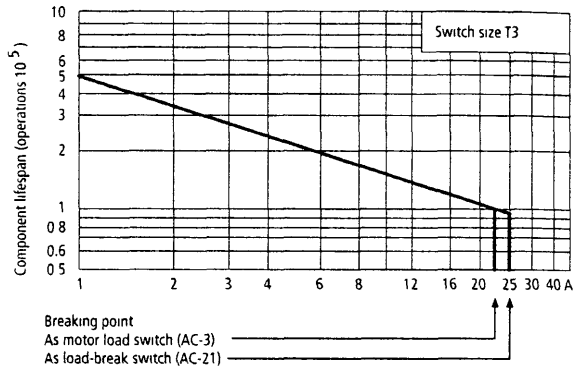
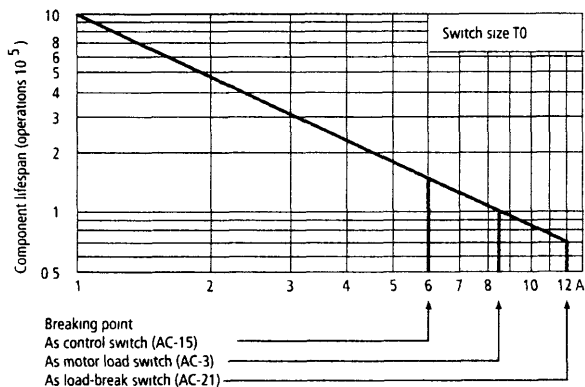
Rated insulation voltage U_i	V AC	500
Rated uninterrupted current I_u with max. cable connected	A	10
Rated operational current I_e AC-15 at 220 – 240/380 – 415/500 V	A	6/4/3
Short-circuit rating without welding Maximum fuse	A gL	10
Terminal capacity s = solid	Min. s/f	mm ² 0.75/0.5
f = flexible with ferrule	Max. s/f	mm ² 2.5/1.5
Control circuit reliability 24 V DC, 10 mA	Fault probability H_f	< 10 ⁻⁵ , < 1 fault in 100 000 operations

T Rotary Switches, P Switch-Disconnectors

Selection Guide 供应商

Component lifespan in relation to breaking current and utilization category

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.



TM Mini Rotary Switches

Technical Data

General				
Standards			IEC/EN 60 947, VDE 0660 UL, CSA Control switches to IEC/EN 60 947-5-1 Control circuit isolators to IEC/EN 60 947-5-1	
Control circuit isolators (IEC/EN 60 947-5-1)			Maximum 6 contacts; switching 90° (see Types TM.../SVB → Page 07/071)	
Lifespan, mechanical		Operations	Ops.	> 1 × 10 ⁶
Max. operating frequency			Ops./h	3000
Climatic proofing			Damp heat, constant, to IEC 60 068 Part 2-3 Damp heat, cyclic, to IEC 60 068 Part 2-30	
Ambient temperature	Open	Min./Max.		
	Enclosed	Min./Max.		
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 ² 0.75/1.5
		2 conductors	Max.	mm ² 1.5 AWG 14
	flexible	1 conductor	Min.	mm ² 0.75 AWG 18
		2 conductors	Max.	mm ² 0.75
Terminal screw			M 2,5	
Dimensions			→ Page 07/094	
Contacts				
Mechanical values				
Contacts			Max.	16
Contact units			Max.	8
Switching angle			90°/60°/45°/30°	
Min. switching angle for On-Off-On			60°	
Switch positions			Max.	12
Thickness of gold coating			μm	35
Electrical values				
Rated operational voltage U _e			V AC	500
Rated impulse withstand voltage U _{imp} applicable to system with earthed star point			4 kV	
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	220 – 240 V, 1~		A	2.5
	380 – 415 V, 1~		A	1.5
	440 V, 1~		A	1
DC-1	1 – 24 V DC		A	10
	110 – 240 V DC		A	0.7 – 0.3
DC-13	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 gL	10
Control circuit reliability				
24 V DC, 10 mA		Fault probability	H _F	< 10 ⁻⁵ , < 1 fault in 100 000 operations

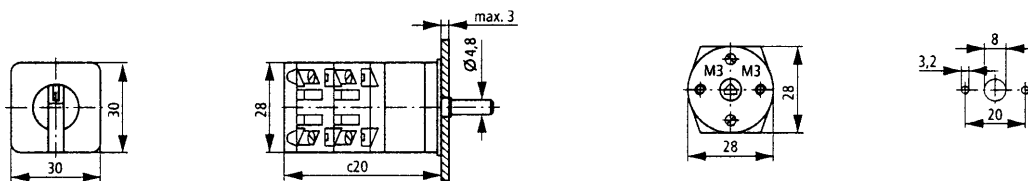
TM Mini Rotary Switches

Dimensions

Flush mounting

TM.../E

Drilling dimensions

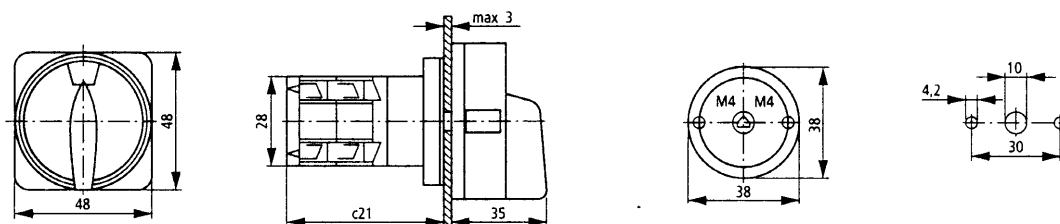


Control circuit isolators

For 2 padlocks with 4 mm or 1 padlock with 6 mm hasp thickness

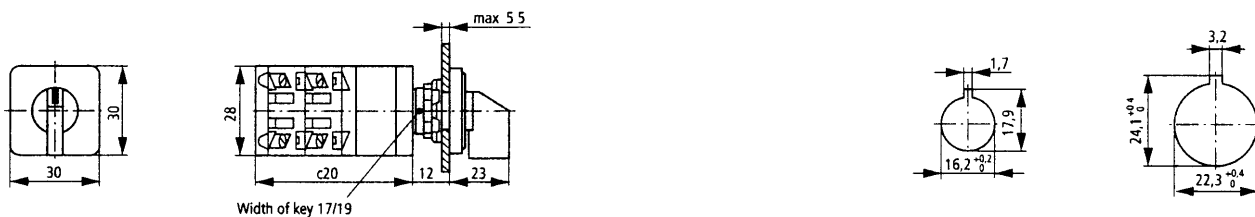
TM.../E/SVB

Drilling dimensions



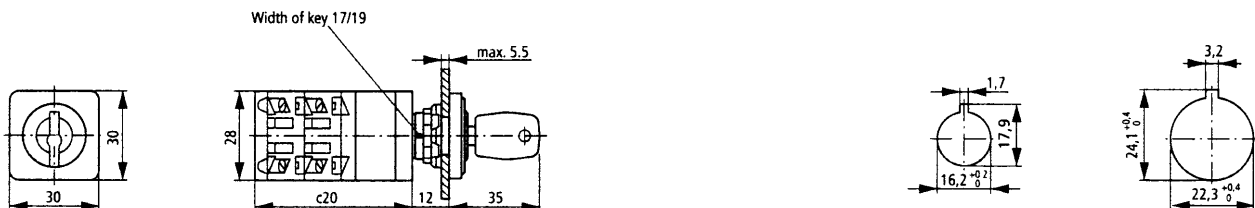
Centre mounting

TM.../EZ

Drilling dimensions¹⁾

Centre mounting, key operated

TM...+EZ/S-

Drilling dimensions¹⁾

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

Notes

- ¹⁾ Drilling dimension options:
 16.2 mm (as RMQ 16) - use without adapter
 22.3 mm (as RMQ 22) - adapter required

T0, T3 Rotary Switches

Dimensions [查询"N-PIZ"供应商](#)

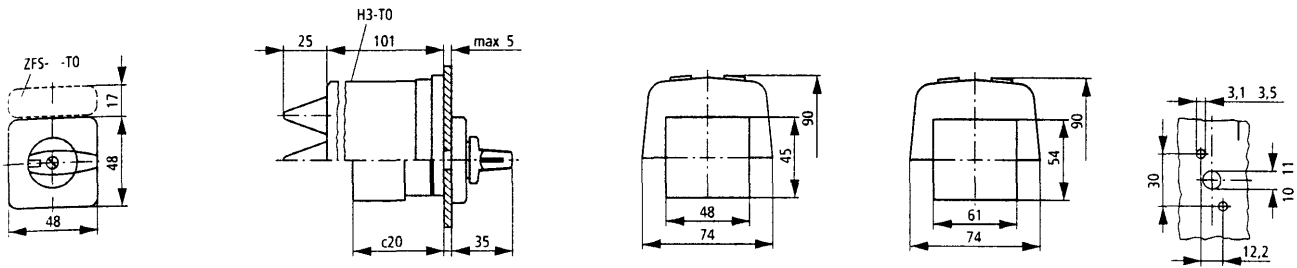
Flush mounting

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

T0.../E + H3-T0

T3.../E + H3-T0

Drilling dimensions



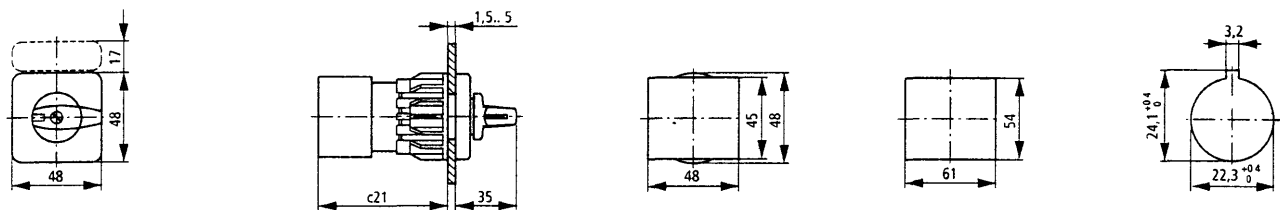
Centre mounting

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

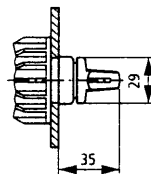
T0

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

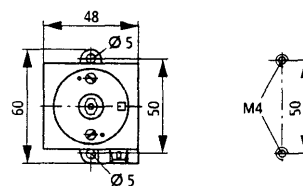
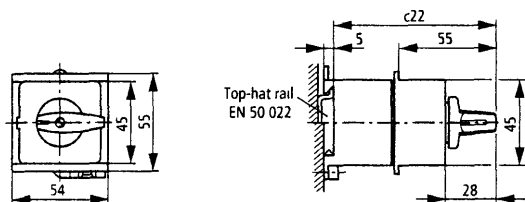
Depth of one contact unit:
11.5 mm

T0...T3 Rotary Switches

Dimensions

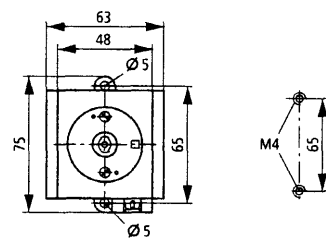
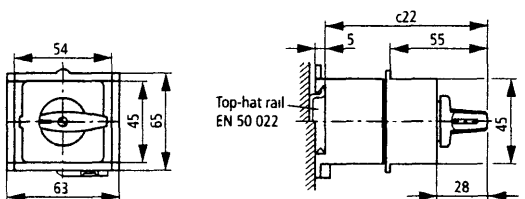
(Service) distribution board mounting

T0.../IVS

Drilling
dimensions
Base

Distribution board mounting

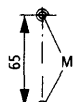
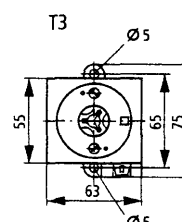
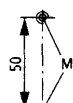
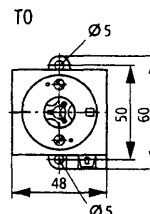
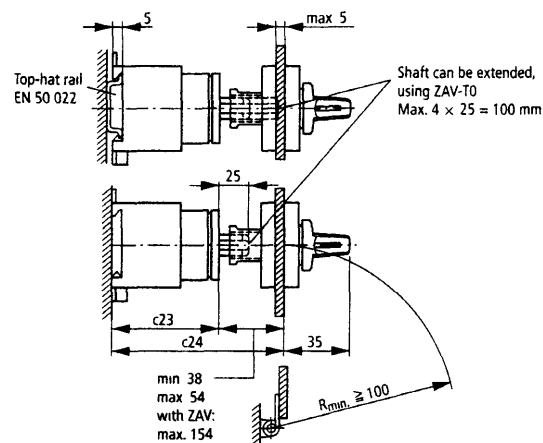
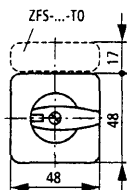
T3.../XZ + IVS-T0

Drilling
dimensions
Base

Rear mounting

T0.../Z

T3.../Z

Drilling
dimensions
BaseDrilling dimensions
Door

Type	c20	c21	c22	c23	c24 Min./Max.	c24 with up to 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 Min./Max.	c24 with up to 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	-

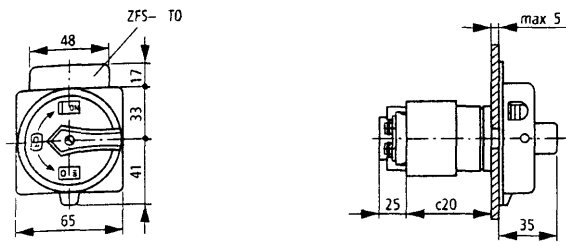
Depth of one contact unit: 11.5 mm

T0, T3 Rotary Switches

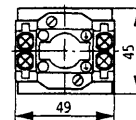
Dimensions [查询"N-PIZ"供应商](#)

Flush mounting main switches

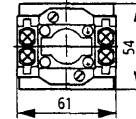
T0.../EA/SVB
T3.../EA/SVB



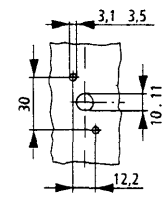
T0



T3

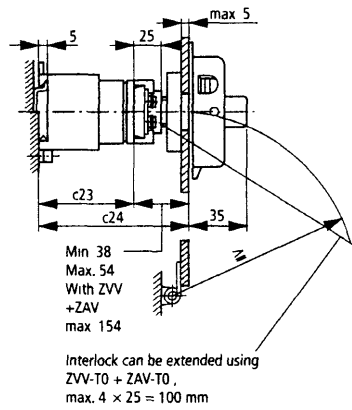
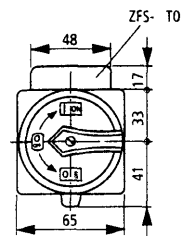


Drilling dimensions
Door

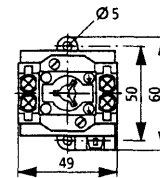


Rear mounting main switches

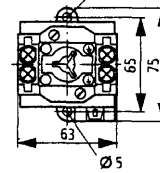
T0.../V/SVB
T3.../V/SVB



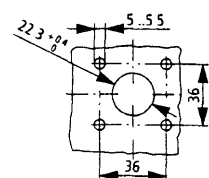
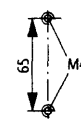
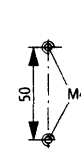
T0



T3



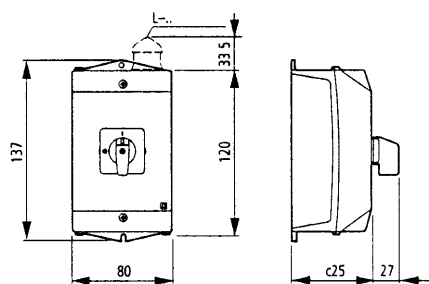
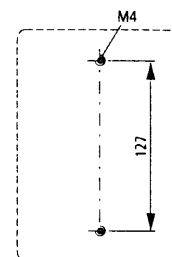
Drilling dimensions Base
Drilling dimensions Door



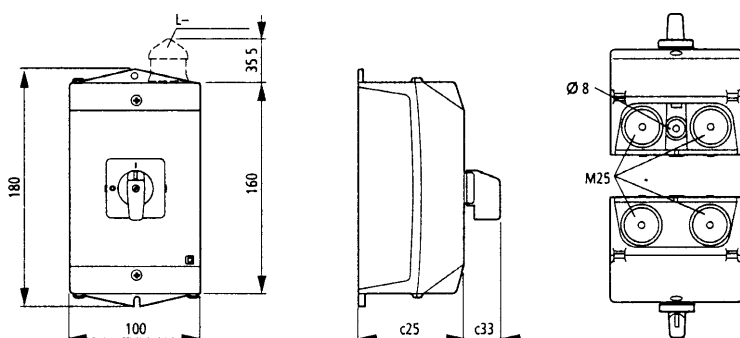
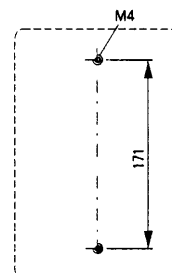
T0, T3 Rotary Switches Dimensions

Surface mounting

T0.../I1

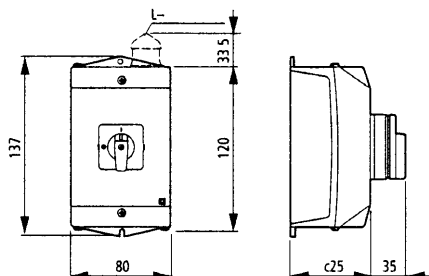
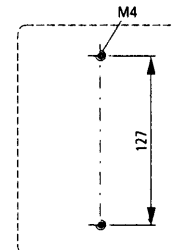
Drilling dimensions
Base

T3.../I2

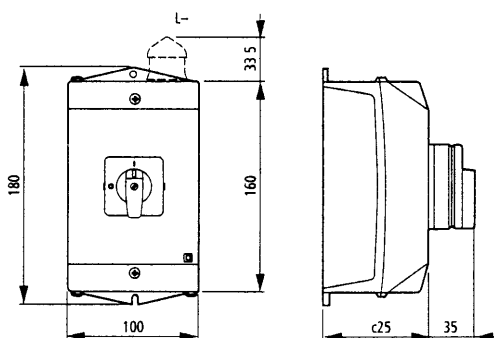
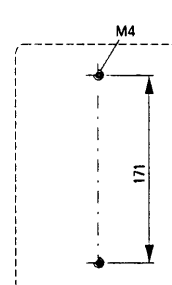
Drilling dimensions
Base

Surface mounting main switches

T0.../I1/SVB

Drilling dimensions
Base

T3.../I2/SVB

Drilling dimensions
Base

Up to 3 padlocks can be fitted

$d = 4 - 8 \text{ mm}$
 $b + d = \text{max. } 47 \text{ mm}$

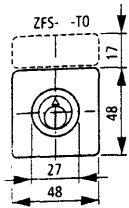
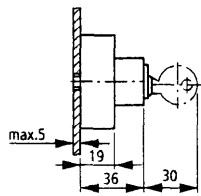
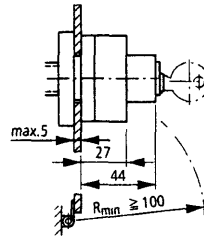
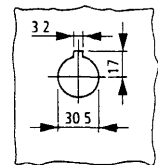
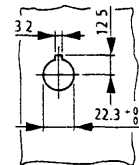
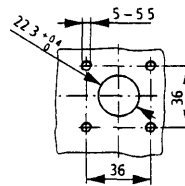
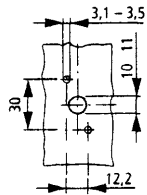
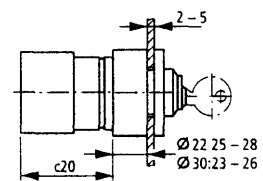
Type	c25
T0-1...	75
T0-2...	75
T0-3...	95
T0-4...	95

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

T0, T3 Rotary Switches, Accessories

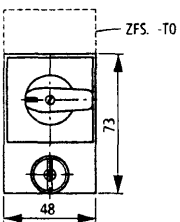
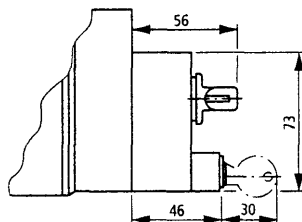
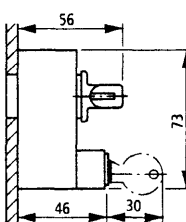
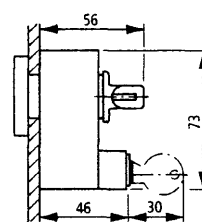
Dimensions

Key operation

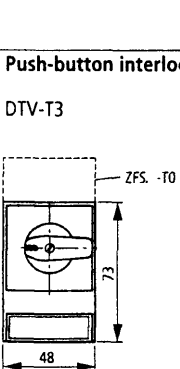
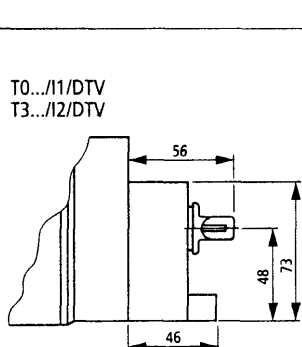
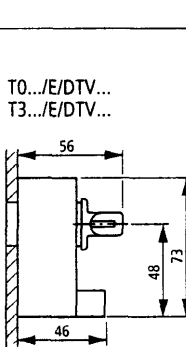
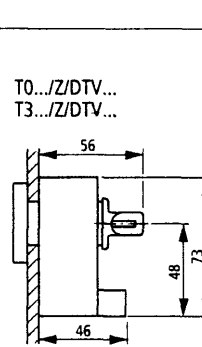
S-T0
S-SOND...-T0T0.../E(I1) + S-(SOND-)T0
T3.../E(I2) + S-(SOND-)T0T0.../Z + S-(SOND-)T0
T3.../Z + S-(SOND-)T0T0.../EZ ≙ T0 /E + EZ-T0 + S-(SOND-)T0
T3.../EZ ≙ T3.../E + EZ-T0 + S-(SOND-)T0

Cylinder lock

SVA-T3

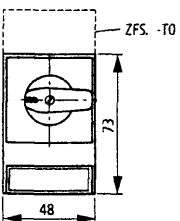
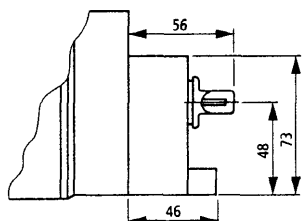
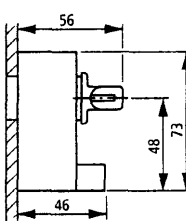
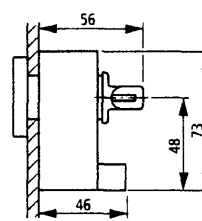
T0.../I1/SVA
T3.../I2/SVAT0.../E/SVA...
T3.../E/SVA...T0.../Z/SVA...
T3.../Z/SVA...Padlocking feature
Dimensions as DTV-T3

SVC-T3

T0.../I1/SVC
T3.../I2/SVCT0.../E/SVC...
T3.../E/SVC...T0.../Z/SVC...
T3.../Z/SVC...

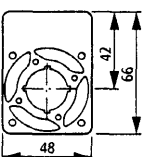
Push-button interlock

DTV-T3

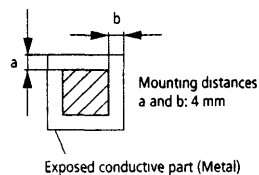
T0.../I1/DTV
T3.../I2/DTVT0.../E/DTV...
T3.../E/DTV...T0.../Z/DTV...
T3.../Z/DTV...

Legend plate

ZS...-T0



Mounting clearance



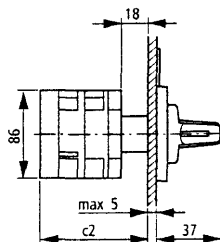
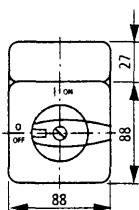
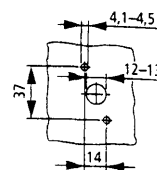
T5B, T5 Rotary Switches

[查询"N P1Z"供应商](#)

 Rotary Switches
Switch-Disconnectors

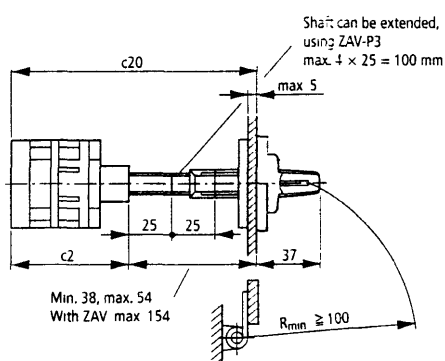
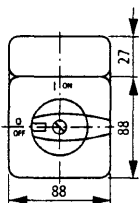
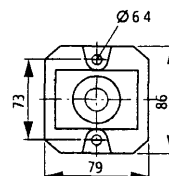
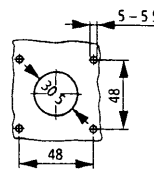
Flush mounting

T5(B).../E

Drilling dimensions
Door

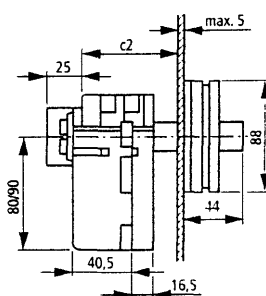
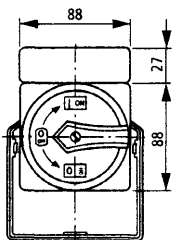
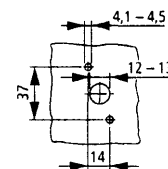
Rear mounting

T5(B).../Z

Drilling dimensions
BaseDrilling dimensions
Door

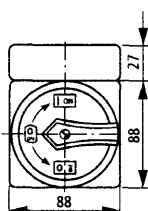
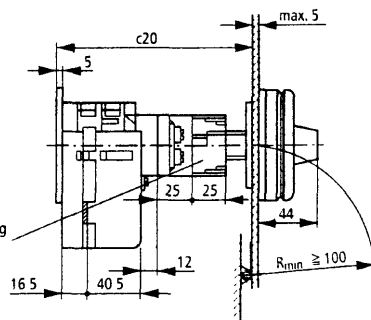
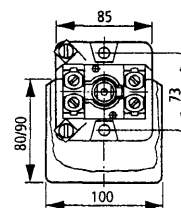
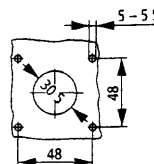
Flush mounting main switches

T5(B).../EA/SVB

Drilling dimensions
Door

Rear mounting main switches

T5(B).../V/SVB


 Interlock can be extended using
ZVV-P3 + ZAV-P3,
max. 4 x 25 = 100 mm
Drilling dimensions
BaseDrilling dimensions
Door

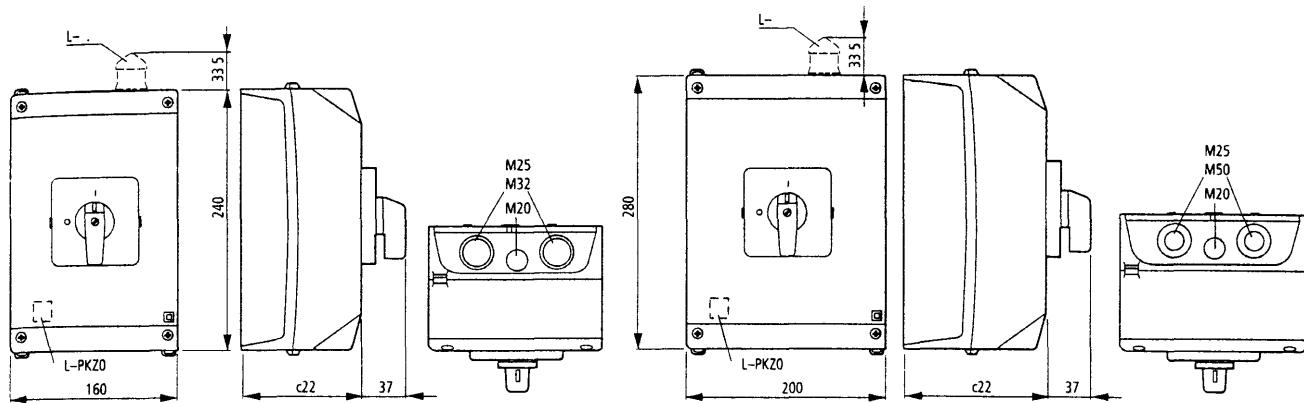
T5B, T5 Rotary Switches

Dimensions

Surface mounting

T5(B) .../I4

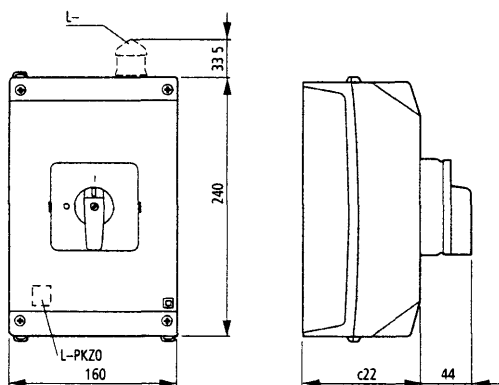
T5.../I5



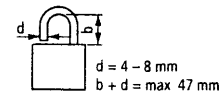
Surface mounting main switches

T5(B).../I4/SVB¹⁾

Drilling dimensions

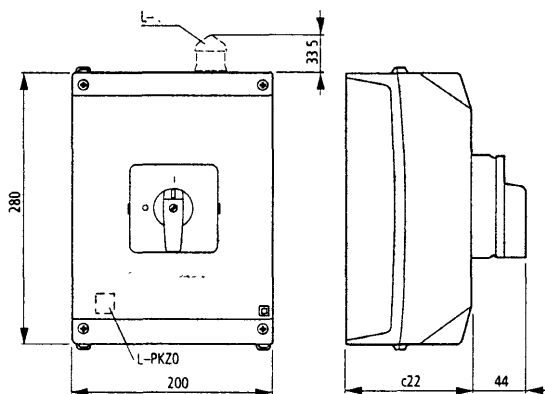


Up to 3 padlocks can be fitted

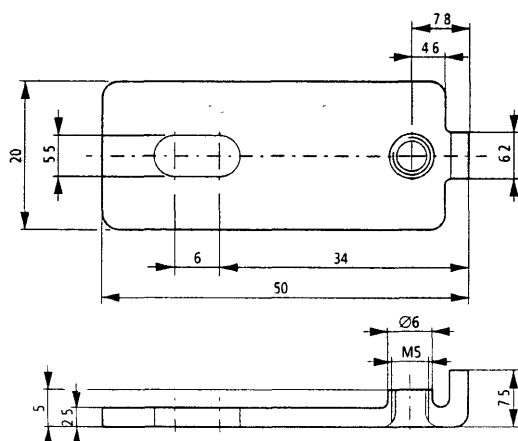


T5.../I5/SVB

Drilling dimensions



External fixing bracket



Type	c2	c20 Min./Max.	c20 with up to 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

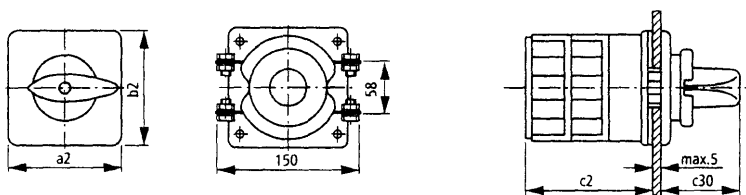
T5B and T5 rotary switches are identical in construction and differentiated only by their contacts.

Rotary Switch
Switch-Disconnector

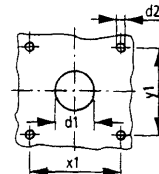
T6, T8 Rotary Switches

Dimensions

Flush mounting

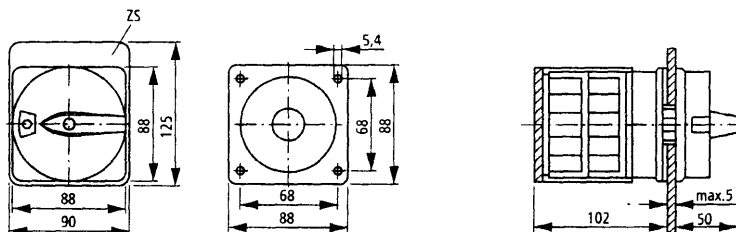
T6.../E
T8.../E

Drilling dimensions

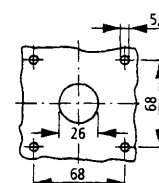
T6: 4 M5 x 20
T8: 4 M6 x 20

Flush mounting main switches

T6-2/EA/SVB

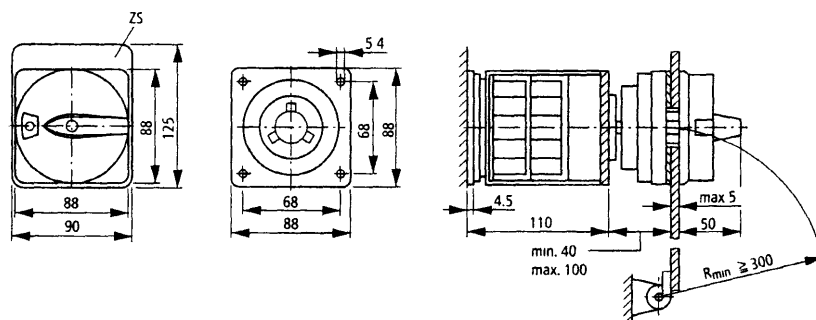


Drilling dimensions

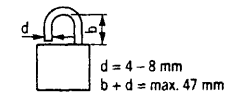


Rear mounting main switches

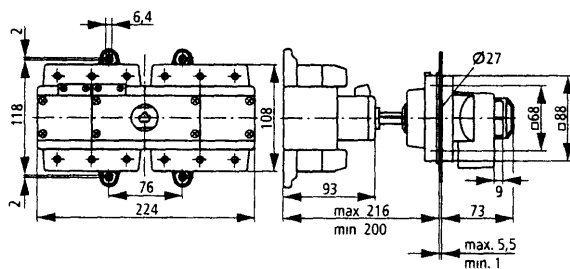
T6-2/V/SVB



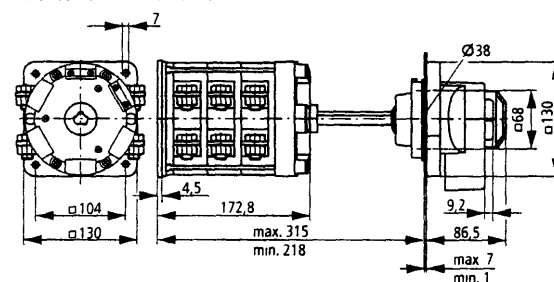
Up to 3 padlocks can be fitted



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

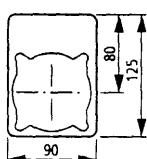


T8-3-8342/V/SVB-SW/HI11



Legend plate

ZS...-P3 for T6-...



Type	a2	b2	c2	2 BE	3 BE	c30	d1	d2	x1	y1
			BE = Number of contact units							
T6	88	88		102	134	40	Ø 26	Ø 5,4	68	68
T8	130	130		—	158	58	Ø 38	Ø 7.0	104	104

BE = Number of contact units

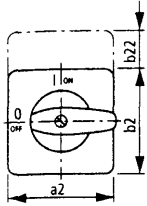
T6, T8 Rotary Switches

Dimensionen 查询"N-PIZ"供应商

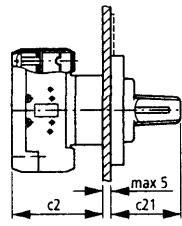
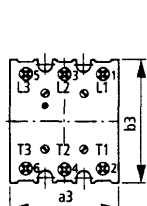
Flush mounting

Centre mounting

P.../E



P1.../EZ

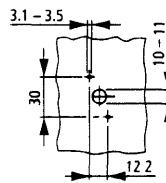


P1 /EZ = c2 + 5 mm

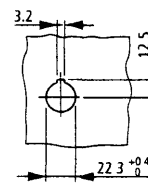
Drilling dimensions

Door

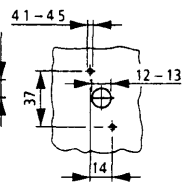
P1.../E



P1.../EZ

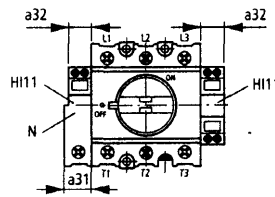
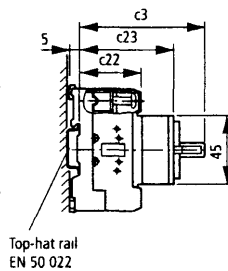
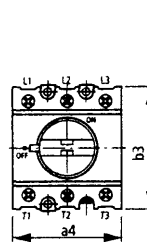


P3.../E

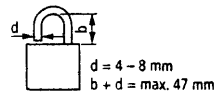


Service distribution board mounting

P.../IVS (-...)

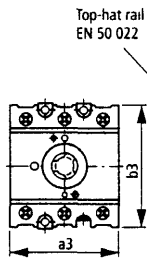
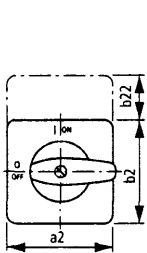
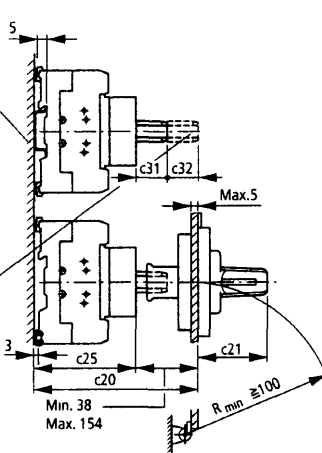


Up to 3 padlocks can be fitted



Rear mounting

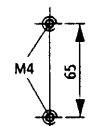
P.../Z

Shaft can be extended, using ZAV-
Max 4 x 25 = 100 mm

Drilling dimensions

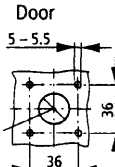
Base

P1.../Z

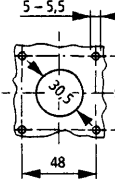
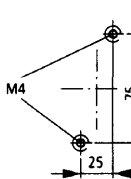


Drilling dimensions

Door



P3.../Z



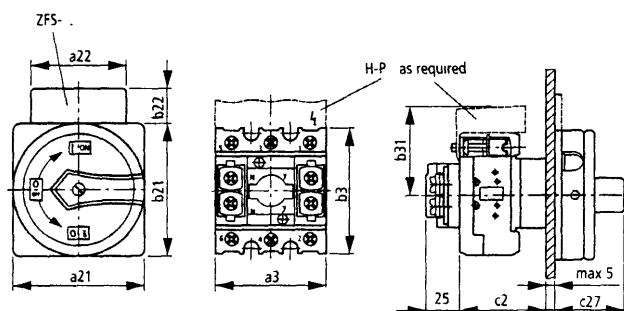
Type	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1	48	49	53,5	65	48	87	15	15	83	48	70	65	17	125	32	49
P3	87	72	71,5	87	87	125	18	15	114	87	83	87	27	175	-	60

Type	c2	c3	c20 Min./Max.	c20 with up to 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

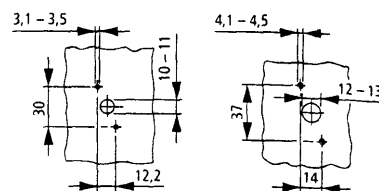
P Switch-Disconnectors Dimensions

Flush mounting main switches

P.../EA/SVB

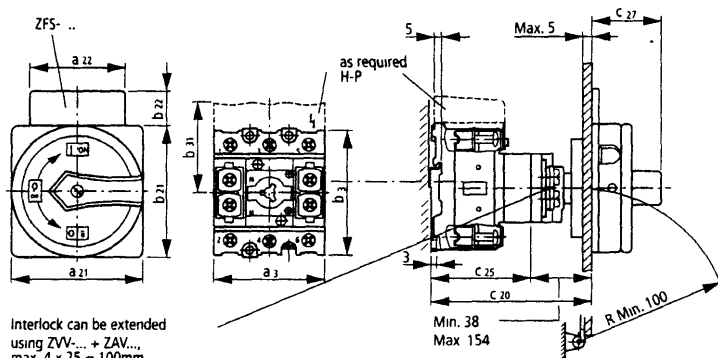

Drilling
dimensions
Door
P1...

P3...



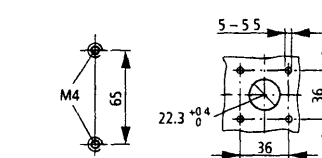
Rear mounting main switches

P.../I/SVB

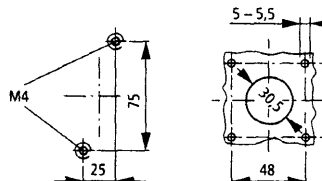

Drilling dimensions
Base

Drilling
dimensions
Door

P1.../I/SVB

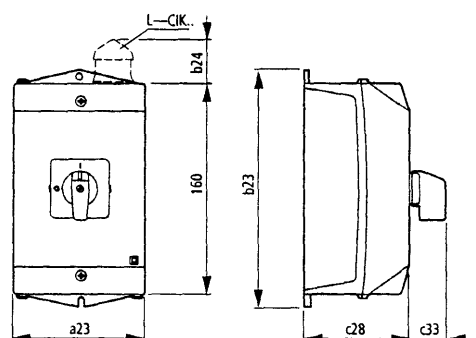


P3.../I/SVB



Surface mounting

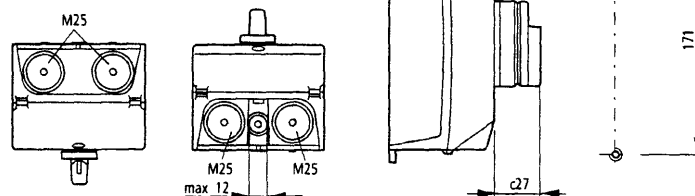
P1.../I2



Surface mounting main switches/safety switches

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

Drilling dimensions



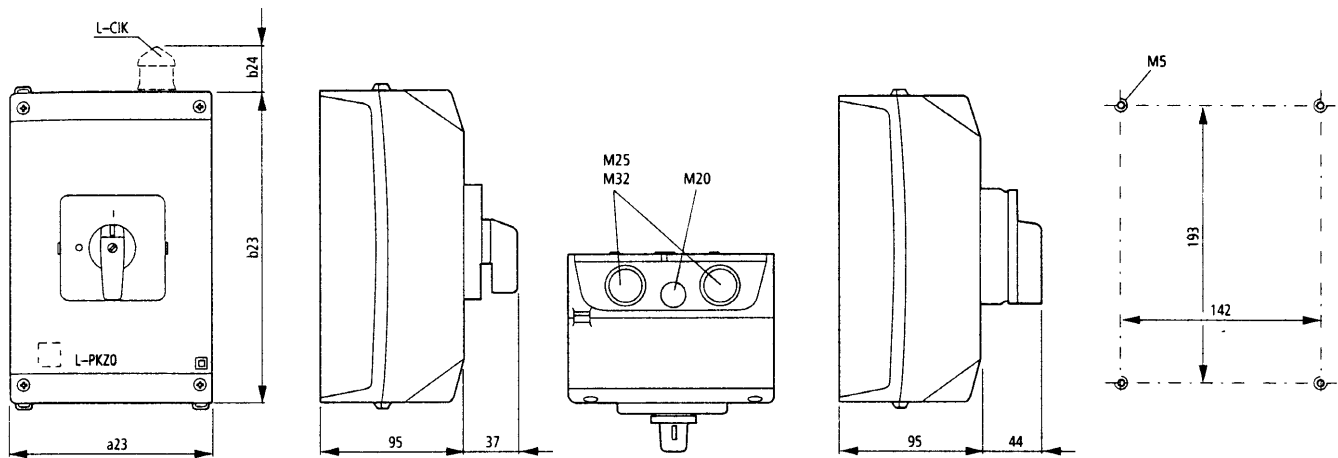
P Switch-Disconnectors

Dimensions

Surface mounting
P3-63/I4

Surface mounting main switches/safety
switches
P3-63/I4/SVB
P3-63/I4/SI
T5B-.../I4/SI

Drilling dimensions

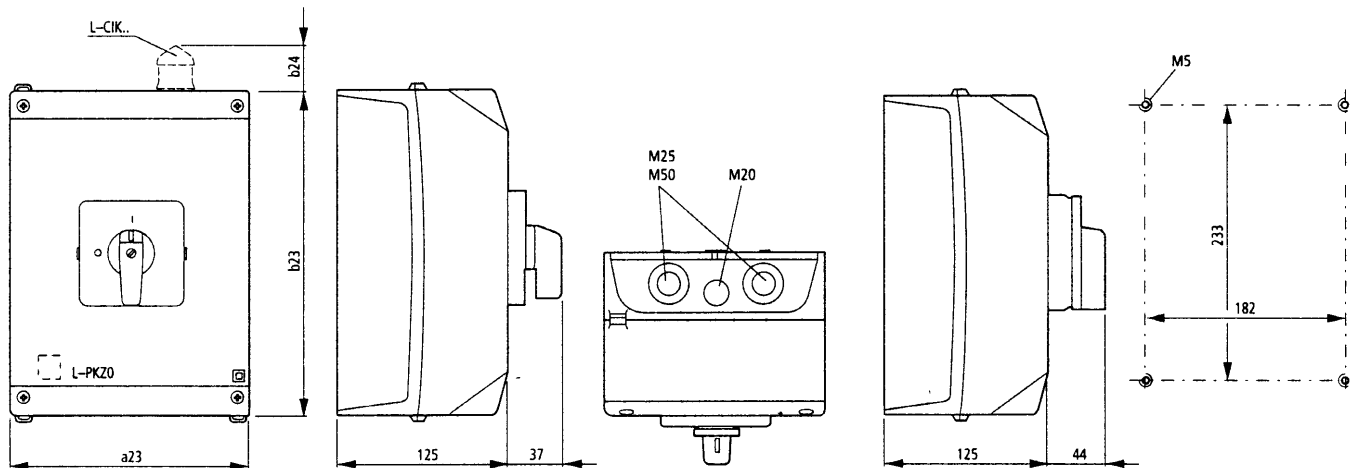


Surface mounting

P3-100/I5

Surface mounting main switches/safety
switches
P3-100/I5/SVB
P3-100/I5/SI
T5-.../I5/SI

Drilling dimensions



Type	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1.../I2	48	49	53.5	65	48	100	15	15	83	48	70	65	17	180	35.5	49
P3-63/I4	87	72	71.5	87	87	160	18	15	114	87	83	87	27	240	35.5	60
P3-100/I5	87	72	71.5	87	87	200	18	15	114	87	83	87	27	280	35.5	60

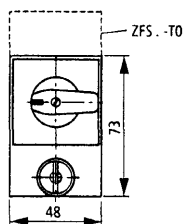
Type	c2	c3	c20 min./max.	c20 with up to 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1.../I2	59	86	96 – 112	212	35	32	65	68	58	35	80	25	25	27
P3-63/I5	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37
P3-100/I5	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37

P Switch-Disconnectors, Accessories

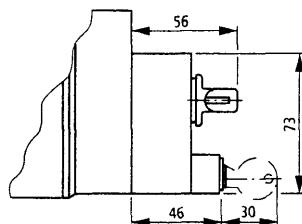
[查询"SIEMENS"供应商](#)

Cylinder lock

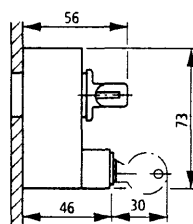
SVA-T3



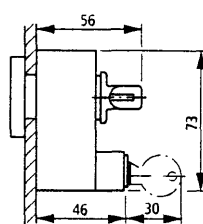
P1.../I2/SVA



P1.../E/SVA

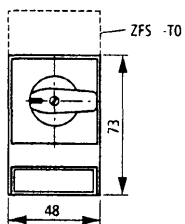


P1.../Z/SVA

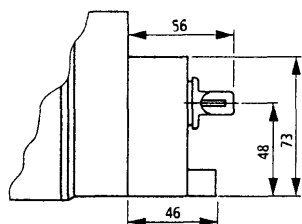


Padlocking feature

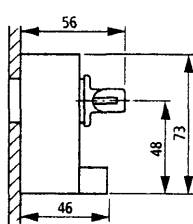
SVC-T3



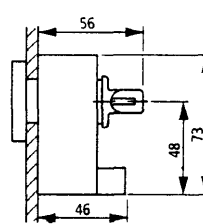
P1.../I2/SVC



P1.../E/SVC

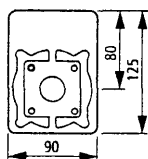


P1.../Z/SVC



Legend plate

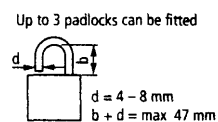
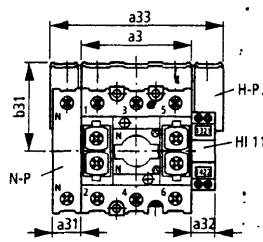
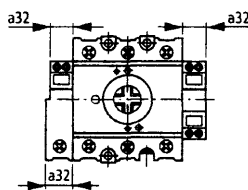
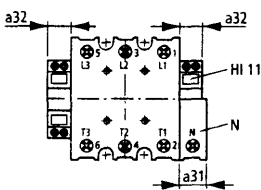
ZS...P3



Modules

Switched neutral

Auxiliary contacts HI 11-P1/P3



Up to 3 padlocks can be fitted

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 required switch and determine cables to be connected.
- 2) Select an enclosure (from Section 14) 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 number 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 number of ZVV-... interlock extensions.

Example:

Switch:

T3-6-.../V/SVB

Min. 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

Quantity

Switch type

T...-1-.../Z (V/SVB)

T...-2-.../Z (V/SVB)

T...-3-.../Z (V/SVB)

T...-4-.../Z (V/SVB)

T...-5-.../Z (V/SVB)

T...-6-.../Z (V/SVB)

T...-7-.../Z (V/SVB)

T...-8-.../Z (V/SVB)

T...-9-.../Z (V/SVB)

T...-10-.../Z (V/SVB)

T...-11-.../Z (V/SVB)

T0-... Mounting depths						
Without/		With ZAV-T0				
from	to	+1 to	+2 to	+3 to	+4 to	
86	102	127	152	177	202	
96	112	137	162	187	212	
105	121	146	171	196	221	
115	131	156	181	206	231	
124	140	165	190	215	240	
134	150	175	200	225	250	
143	159	184	209	234	259	
153	169	194	219	244	269	
162	178	203	228	253	278	
172	188	213	238	263	288	
181	197	222	247	272	279	

T3-... Mounting depths						
Without/		With ZAV-T0				
from	to	+1 to	+2 to	+3 to	+4 to	
89	105	130	155	180	205	
101	116	141	166	191	216	
112	128	153	178	203	228	
124	139	164	189	214	239	
135	151	176	201	226	251	
147	162	187	212	237	262	
158	174	199	224	249	274	
170	185	210	235	260	285	
181	197	222	247	272	297	
193	208	233	258	283	308	
204	220	245	270	295	320	

T5(B)-... Mounting depths						
Without/		With ZAV-P3				
from	to	+1 to	+2 to	+3 to	+4 to	
92	107	132	157	182	207	
109	124	149	174	199	224	
125	140	165	190	215	240	
142	157	182	207	232	257	
158	173	198	223	248	273	
175	190	215	240	265	290	
191	206	231	256	281	306	
208	223	248	273	298	323	
224	239	264	289	314	339	
241	256	281	306	331	356	

T Rotary Switches, TM Mini Rotary Switches

Ordering of Non-Standard Contact Sequences

Key to type references

↑ Switch size	↑ Number of contact units (2 contacts per unit)	↑ Contact sequence number	↑ Mounting form	↑ Accessories
	Max. units	Max. contacts		
T0	11	22	• Mounting form /E • Centre mounting /EZ (for T0, T3) • Surface mounting /I... ¹⁾ • Service distribution board mounting /IVS (for T0) • Rear mounting /Z • Flush mounting main switch /EA/SVB ²⁾ • Surface mounting main switch /I.../SVB • Rear mounting main switch /V/SVB ²⁾ • Mounting forms for TM: /E or /EZ	→ Pages 07/054 – 069 State in full with every order. For TM.../EZ only +EZ/S... is possible → Page 07/081
T3	11	22		
T5B	10	20		
T5	10	20		
TM	8	16		

Contact sequence number
With manufacturing country identifier.
For initial order specify SOND-FO2 and enclose completed form (see next page). Contact sequence number is issued by factory.
For subsequent orders, type suffix is sufficient.

Mounting form
• Mounting form /E
• Centre mounting /EZ (for T0, T3)
• Surface mounting /I...¹⁾
• Service distribution board mounting /IVS (for T0)
• Rear mounting /Z
• Flush mounting main switch /EA/SVB²⁾
• Surface mounting main switch /I.../SVB
• Rear mounting main switch /V/SVB²⁾
• Mounting forms for TM: /E or /EZ

Accessories
→ Pages 07/054 – 069
State in full with every order.
For TM.../EZ only +EZ/S... is possible
→ Page 07/081

Design notes for non-standard contact sequences

Contact sequence

The form FO 2 makes it easy to determine the contact sequence. Form FO 2 can be sent by telefax.
Master copy → Page 07/110

Switching angles

30, 45, 60, 90°
Preferred angle: 60°
For On-Off switches: 90°
For main switches: 90° as FS 908 Page (07/052)

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

Spring-return

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 < ½ 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 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

$\text{Number of contacts} = \text{Round up to nearest whole}$
2

Each contact chamber = contact unit has 1 or 2 contacts, each operated by a cam.
On T5(B) switches one cam operates both contacts, consequently:
Where the total switching angle is **less than 180°**, each contact can be operated **independently**. At switching angles of 180° or 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, 070

Notes	Page
Technical data	07/088
Dimensions	07/094

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 the terminals which have a difference of four 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) must be supplied by the user.

- ¹⁾ T0-.../I1: up to 4 contact units
T3-.../I2 up to 5 contact units
²⁾ T0 up to 8 contacts = 4 contact units
T3 up to 12 contacts = 6 contact units

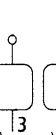
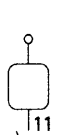
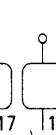
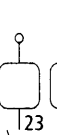
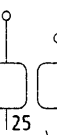
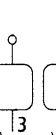
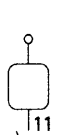
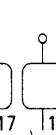
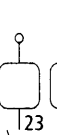
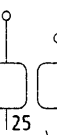
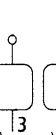
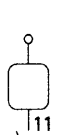
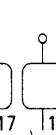
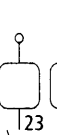
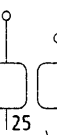
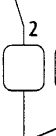
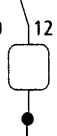
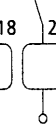
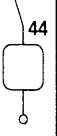
T Rotary Switches, TM Mini Rotary Switches

Ordering Non-Standard Contact Sequences

Moeller Klöckner


 Erstbestellung für beliebige 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: Position: Poste :		Büro: Office: Bureau :		Bearbeiter: Name: Employé :																							
Kunde: Customer: Client				Kundenspez.-Nr.: Customer number: N° client :			Datum: Date: Date :																						
Hinweis: Note: Note :		Stückzahl: Quantity: Quantité :		Schaltwinkel: Switching angle: Angle de rotation :		Typ: Type: Référence :																							
Die Anzahl der möglichen Kontakte sowie die Kombinationsmöglichkeiten mit den Bauformen entnehmen Sie bitte dem Hauptkatalog. The number of possible contacts as well as the combination options 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.		☐ 30 ☒ 45 ☐ 60 ☐ 90		☐ TM ☒ T0 ☐ T3 ☐ T5B ☐ T5		Anzahl Kontakte: No. of contacts: Nombre de contacts : <table border="0"> <tr><td>☐ 1</td><td>☐ 12</td></tr> <tr><td>☐ 2</td><td>☐ 13</td></tr> <tr><td>☐ 3</td><td>☐ 14</td></tr> <tr><td>☐ 4</td><td>☐ 15</td></tr> <tr><td>☐ 5</td><td>☐ 16</td></tr> <tr><td>☐ 6</td><td>☐ 17</td></tr> <tr><td>☐ 7</td><td>☐ 18</td></tr> <tr><td>☐ 8</td><td>☐ 19</td></tr> <tr><td>☒ 9</td><td>☐ 20</td></tr> <tr><td>☐ 10</td><td>☐ 21</td></tr> <tr><td>☐ 11</td><td>☐ 22</td></tr> </table>		☐ 1	☐ 12	☐ 2	☐ 13	☐ 3	☐ 14	☐ 4	☐ 15	☐ 5	☐ 16	☐ 6	☐ 17	☐ 7	☐ 18	☐ 8	☐ 19	☒ 9	☐ 20	☐ 10	☐ 21	☐ 11	☐ 22
☐ 1	☐ 12																												
☐ 2	☐ 13																												
☐ 3	☐ 14																												
☐ 4	☐ 15																												
☐ 5	☐ 16																												
☐ 6	☐ 17																												
☐ 7	☐ 18																												
☐ 8	☐ 19																												
☒ 9	☐ 20																												
☐ 10	☐ 21																												
☐ 11	☐ 22																												
		DM/Stück: DM/each: Prix unitaire :		Bauform: Mounting form: Modèle :		☒ E ☐ EA/SVB ☐ EZ ☐ I... ☐ I.../SVB ☐ IVS ☐ V/SVB ☐ X ☐ Z ☐ + S-T0 ☐ + _____																							
				☐ EA/SVB-SW ☐ EZ/OFS ☐ I.../SVB-SW ☐ V/SVB-SW ☐ XZ																									

Frontschild Nr. Front Plate No. Plastron N°		Baueinheiten/Contact units/Galettes																																																																																																																																																																																																																																																																																																																																																																																																								
FS		<table border="1"> <tr> <th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		1	2	3	4	5	6	7	8	9	10	11																																																																																																																																																																																																																																																																																																																																																																																												
1	2	3	4	5	6	7	8	9	10	11																																																																																																																																																																																																																																																																																																																																																																																																
																																																																																																																																																																																																																																																																																																																																																																																																										
Rundschaltung ☐ Complete rotation Rotation totale autom. Rückzug ☒ Spring-return Retour autom.		                   																																																																																																																																																																																																																																																																																																																																																																																																								
Beschriftung Marking/Repérage		<table border="1"> <tr> <th>Grad Degrees/Degrés</th> <th>1 2</th><th>3 4</th><th>5 6</th><th>7 8</th><th>9 10</th><th>11 12</th><th>13 14</th><th>15 16</th><th>17 18</th><th>19 20</th><th>21 22</th><th>23 24</th><th>25 26</th><th>27 28</th><th>29 30</th><th>31 32</th><th>33 34</th><th>35 36</th><th>37 38</th><th>39 40</th><th>41 42</th><th>43 44</th> </tr> <tr> <td>270</td><td>1</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>300</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>315</td><td>2</td><td>X</td><td>X</td><td>X</td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>330</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>0</td><td>3</td><td>X</td><td></td><td></td><td>X</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>30</td><td>4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>45</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>90</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>120</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>135</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>150</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>180</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>210</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>225</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>240</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>		Grad Degrees/Degrés	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 28	29 30	31 32	33 34	35 36	37 38	39 40	41 42	43 44	270	1	X	X	X	X	X	X																300																							315	2	X	X	X				X															330																							0	3	X			X	X																	30	4								X														45																							60																							90																							120																							135																							150																							180																							210																							225																							240																						
Grad Degrees/Degrés	1 2	3 4	5 6	7 8	9 10	11 12	13 14	15 16	17 18	19 20	21 22	23 24	25 26	27 28	29 30	31 32	33 34	35 36	37 38	39 40	41 42	43 44																																																																																																																																																																																																																																																																																																																																																																																				
270	1	X	X	X	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																			
300																																																																																																																																																																																																																																																																																																																																																																																																										
315	2	X	X	X				X																																																																																																																																																																																																																																																																																																																																																																																																		
330																																																																																																																																																																																																																																																																																																																																																																																																										
0	3	X			X	X																																																																																																																																																																																																																																																																																																																																																																																																				
30	4								X																																																																																																																																																																																																																																																																																																																																																																																																	
45																																																																																																																																																																																																																																																																																																																																																																																																										
60																																																																																																																																																																																																																																																																																																																																																																																																										
90																																																																																																																																																																																																																																																																																																																																																																																																										
120																																																																																																																																																																																																																																																																																																																																																																																																										
135																																																																																																																																																																																																																																																																																																																																																																																																										
150																																																																																																																																																																																																																																																																																																																																																																																																										
180																																																																																																																																																																																																																																																																																																																																																																																																										
210																																																																																																																																																																																																																																																																																																																																																																																																										
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)																																																																																																																																																																																																																																																																																																																																																																																																								

 Es ist möglich, daß sich aus technischen Gründen die Reihenfolge der Kontakte ändert.
 The sequence of contacts may be changed for technical reasons.
 Il est possible que la séquence des contacts puisse être modifiée pour des raisons techniques.

 Rotary Switches
 Switch-Disconnectors

T-Rotary Switches, TM Mini Rotary Switches

MoELLER 		Erstbestellung für beliebige 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: Position: Poste :		Büro: Office: Bureau :		Bearbeiter: Name: Employé :	
Kunde: Customer: Client				Kundenspez.-Nr.: Customer number: N° client :		Datum: Date: Date :	
Hinweis: Note: Note :		Stückzahl: Quantity: Quantité :		Schaltwinkel: Switching angle: Angle de rotation :		Typ: Type: Référence :	
Die Anzahl der möglichen Kontakte sowie die Kombinationsmöglichkeiten mit den Bauformen entnehmen Sie bitte dem Hauptkatalog.				☐ 30 ☐ 45 ☐ 60 ☐ 90		☐ TM ☐ T0 ☐ T3 ☐ T5B ☐ T5	
The number of possible contacts as well as the combination options with mounting forms are shown in the Main Catalogue.		DM/Stück: DM/piece: Prix unitaire :		☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 11		☐ 12 ☐ 13 ☐ 14 ☐ 15 ☐ 16 ☐ 17 ☐ 18 ☐ 19 ☐ 20 ☐ 21 ☐ 22	
Reportez-vous au Catalogue Général pour connaître le nombre maximal de contacts et les possibilités de combinaison selon les modèles.				☐ E ☐ EA/SVB ☐ EZ ☐ I... ☐ I.../SVB ☐ IVS ☐ V/SVB ☐ X ☐ Z ☐ + _____ ☐ + _____		☐ EA/SVB-SW ☐ EZ/OFS ☐ I.../SVB-SW ☐ V/SVB-SW ☐ XZ	

Frontschild Nr. Front Plate No. Plastron N°		Baueinheiten/Contact units/Galettes																					
		1		2		3		4		5		6		7		8		9		10		11	
Rundschaltung ☐ Complete rotation Rotation totale																							
autom. Rückzug ☐ Spring-return Retour autom.																							
Beschriftung																							
Marking/Repérage																							
Grad																							
Degree/Degrés																							
270		1		3		5		7		9		11		13		15		17		19		21	
300		2		4		6		8		10		12		14		16		18		20		22	
315																							
330																							
0																							
30																							
45																							
60																							
90																							
120																							
135																							
150																							
180																							
210																							
225																							
240																							

X 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

L'ordre des contacts peut être modifié pour des raisons techniques.

P..., T5..., N Safety Switches

Design Information

Maintenance switches and safety switches have the same electrical function, which is to safely isolate an electrical installation (load) from the mains while maintenance work or repairs are being carried out, thereby ensuring that no danger is caused to personnel, machinery or product.

The safety switch is an additional enclosed main switch = isolator for an individual electrical load, which can be fitted directly next to the motor or the electrical load, ensuring that work can be carried out safely on those items provided the safety rules are observed. This is of special importance if there is any possibility whatsoever of confusion regarding the main switch.

Application

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

Maintenance switches are merely additional, enclosed main switches with a padlocking facility. Such switches can be found on pages 07/012-015 or 07/022-023 of this catalogue.

Features

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

If the switch is to be used as an Emergency-Stop switch, it has a special red handle and a yellow locking collar. In accordance with STOP category O to IEC/EN 60204.

If the switch can not be used as an Emergency-Stop switch, both parts are grey for N 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

Selection of the switches is to be made according to the following rating data:

- 1) According to the motor rating (switching capacity), if the switch is fitted in such a way that the operator is able to switch On and Off under operational conditions.
- 2) The motor rating given is always for three-phase applications. Where 6 current paths are involved, such as a motor with star-delta starting, a 6-pole switch can switch 1.73 times the rated value.
- 3) A switch can be selected according to the uninterrupted current provided that the switch has a load-shedding and indicating contact (LA). The load-shedding and indicating contact is an auxiliary contact which is closed in the On position and breaks early when switching Off, so that a contactor accepts the switching capacity in the circuit and the maintenance/safety switch operates as a no-load switch. When switching On, the LA closes later than or simultaneously with the main contacts. This is the auxiliary make contact in the case of T and P switches, and in the case of N switches it is the series connection of an early-make auxiliary contact (VHI) and a standard auxiliary contact (NHI).

- 4) A switch can also be selected according to the uninterrupted current, provided it is ensured that the switch is only operated without a load. For example, the switch can be adapted to padlocking in the On position. This is not possible for switches with a red/yellow handle.

Replacement of earlier types:

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-.../I4-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 07/090

Technical data for T5(B) switch-disconnectors → Page 07/088

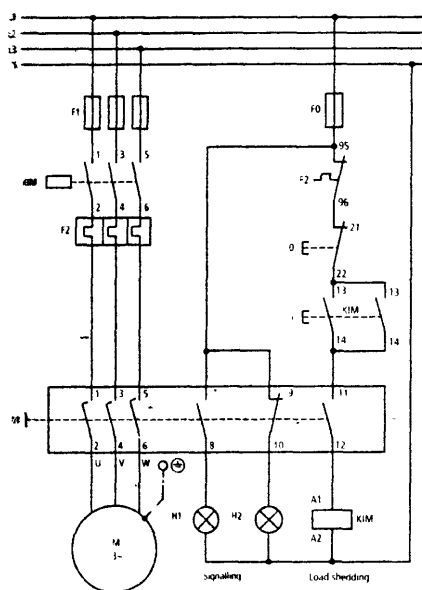
Technical data for N switch-disconnectors → Page 10/166

Dimensions for P → Page 07/103

Dimensions for T5(B) → Page 07/100

Dimensions for N → Page 10/176

Safety switch with load shedding and signalling
T5(B) rotary switch or P switch-disconnector (example)



Safety switch with load shedding and signalling
N switch-disconnector (example)

