



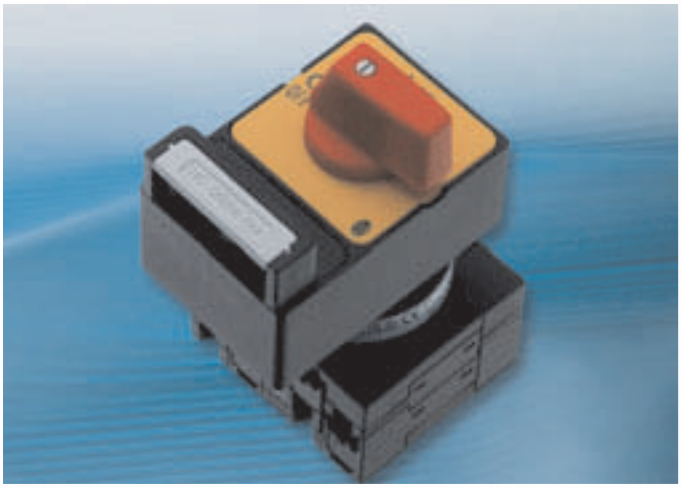





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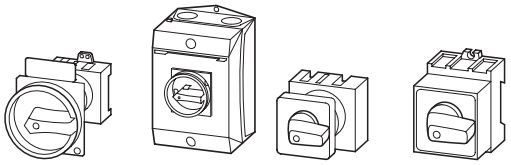
Moeller HPL0211-2004/2005

T rotary switches, P switch-disconnectors



TM mini rotary switches



	Page
Technical overview	7/2
System overview	7/4
Key to type references, modular system	7/8
On-Off switches	
Main switches	7/10
On-Off switches	7/16
Safety switches	7/20
Control switches	
Changeover switches	7/22
Reversing switches	7/26
Star-delta switches	7/26
Multi-speed switches	7/28
Step switches	7/30
On-Off switches	7/32
Hand/Auto switches	7/34
On-Off spring-return switches	7/36
Universal control switches	7/38
Coding switches	7/38
Series switches	7/38
Instrument selector switches	7/40
Switches with locking arrangements	
Panic switches	7/42
On-Off switches	7/42
Accessories	
Front plates	7/44
Key operated lock mechanisms	7/46
Other accessories	7/48
Non-standard switches	
T0 rotary switches	7/64
T3 rotary switches	7/65
T5B rotary switches	7/66
T5 rotary switches	7/67
Ordering of non-standard switches	7/69
Tripping characteristics	7/73
Technical data	7/74
Dimensions	7/82

	Page
Technical overview	7/2
System overview	7/54
Key to type references, modular system	7/8
On-Off switches	
Control circuit isolators	7/56
On-Off switches	7/56
Control switches	
Changeover switches	7/57
Step switches	7/58
Hand/Auto switches	7/58
On-Off spring-return switches	7/61
Group switches	7/61
Reversing switches	7/62
Coding switches	7/62
Accessories	
Key operated lock mechanisms	7/63
Non-standard switches	
TM mini rotary switches	7/68
Ordering of non-standard switches	7/69
Technical data	7/81
Dimensions	7/94

Other standard contact sequences → Catalogue K115

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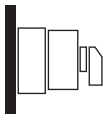
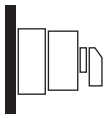
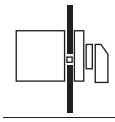
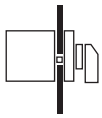
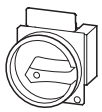
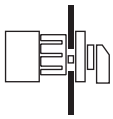
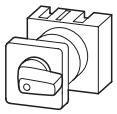
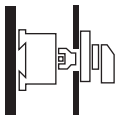
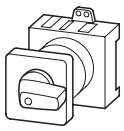
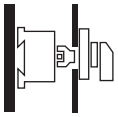
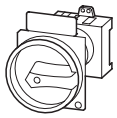
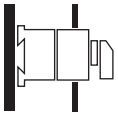
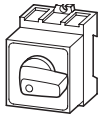
				Switch size			
				TM	**T0**	**T3**	**T5B**
Three-phase motor ratings	**AC–23**	220 – 240 V	kW	1.8	3.5	7.5	18.5
		380 – 440 V	**kW**	**3**	**6,5**	**13**	**22**
Rated operational current	**AC–21**	380 – 440 V 3~	A	10	20	32	63
	AC–15	220 – 240 V	A	2.5	6	10	16
		380 – 415 V	A	1.5	4	6	6
Rated uninterrupted current			**A**	**10**	**20**	**32**	**63**
Mounting form	**Type**	**Degree of protection**					
Surface mounting							
 	.../I...	IP65		–	●	●	●
	.../I 45/...			–	–	–	–
	.../I 48/...			–	–	–	–
Surface mounting main switches							
 	.../I.../SVB...	IP65		–	●	●	●
Flush mounting							
 	.../E...	Front IP65		●	●	●	●
Flush mounting main switches/Control circuit isolators							
 	.../EA/SVB...	Front IP65		–	●	●	●
	TM.../E/SVB			●	–	–	–
Centre mounting							
 	.../EZ...	Front IP65		–	●	●	–
	TM.../EZ			●	–	–	–
Rear mounting							
 	.../Z...	Front IP65		–	●	●	●
Rear mounting main switches							
 	.../V/SVB...	Front IP65		–	●	●	●
Service distribution board mounting							
 	.../IVS...	Front IP 30		●	●	–	–

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T5	T6-3-8212	T6-160-6	T8-3-8342	T8-3-8212	P1		P3		P5			
18,5	37	37	75	75	7	8,5	18,5	30	30	30	37	55
30	**45**	**55**	**132**	**132**	**13**	**15**	**37**	**50**	**45**	**55**	**90**	**110**
100	125	160	315	315	25	32	63	100	125	160	250	315
16	–	–	–	–	–	–	–	–	–	–	–	–
6	–	–	–	–	–	–	–	–	–	–	–	–
100	**125**	**160**	**315**	**315**	**25**	**32**	**63**	**100**	**125**	**160**	**250**	**315**
●	–	–	–	–	●		●		–	–	–	–
–	–	●	–	–	–		–		–	–	–	–
–	–	–	●[1]	–	–		–		–	–	–	–
●	–	–	–	–	●		●		–	–	–	–
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–	–	–	–	–	●		●		–	–	–	–

Notes [1] IP64

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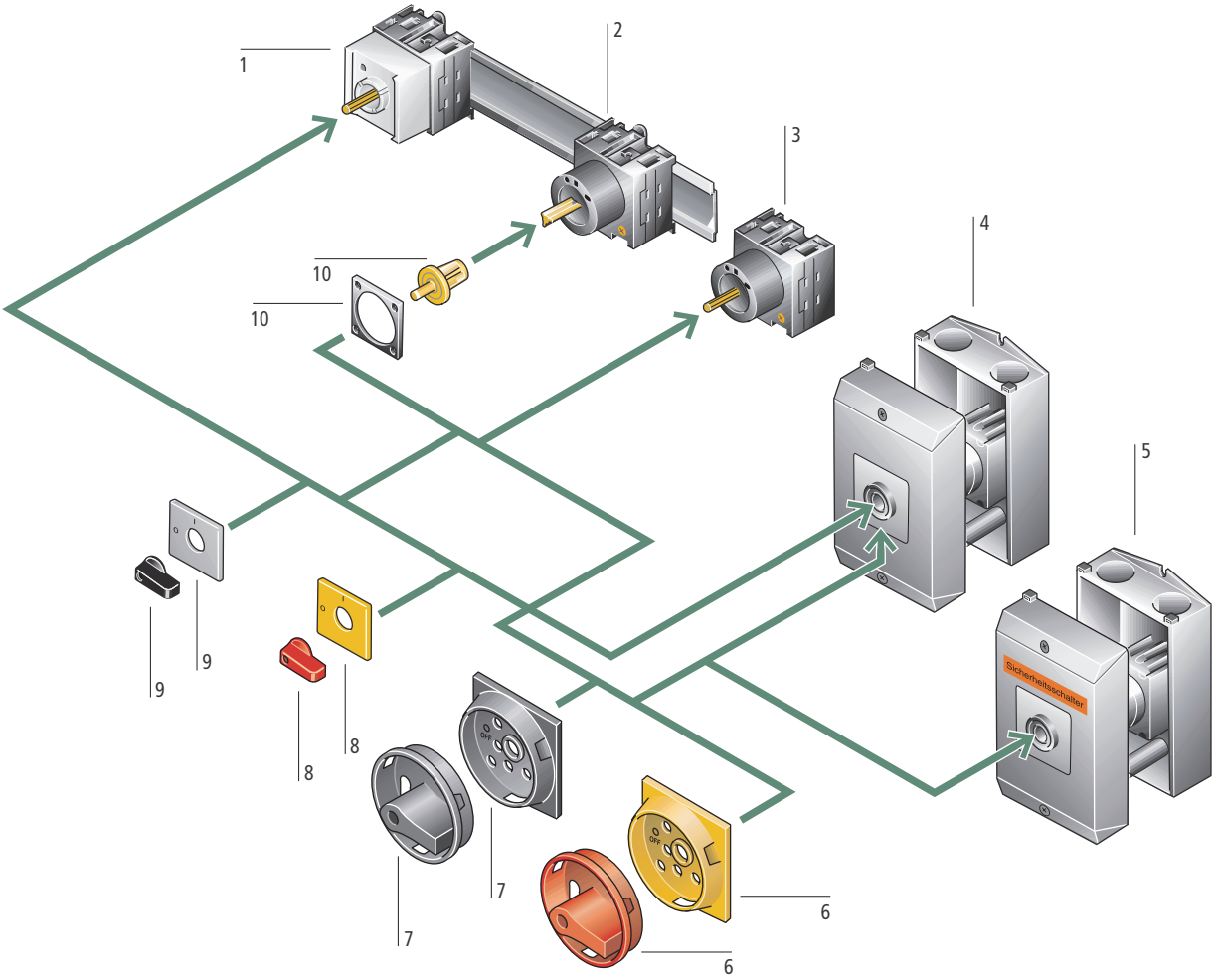
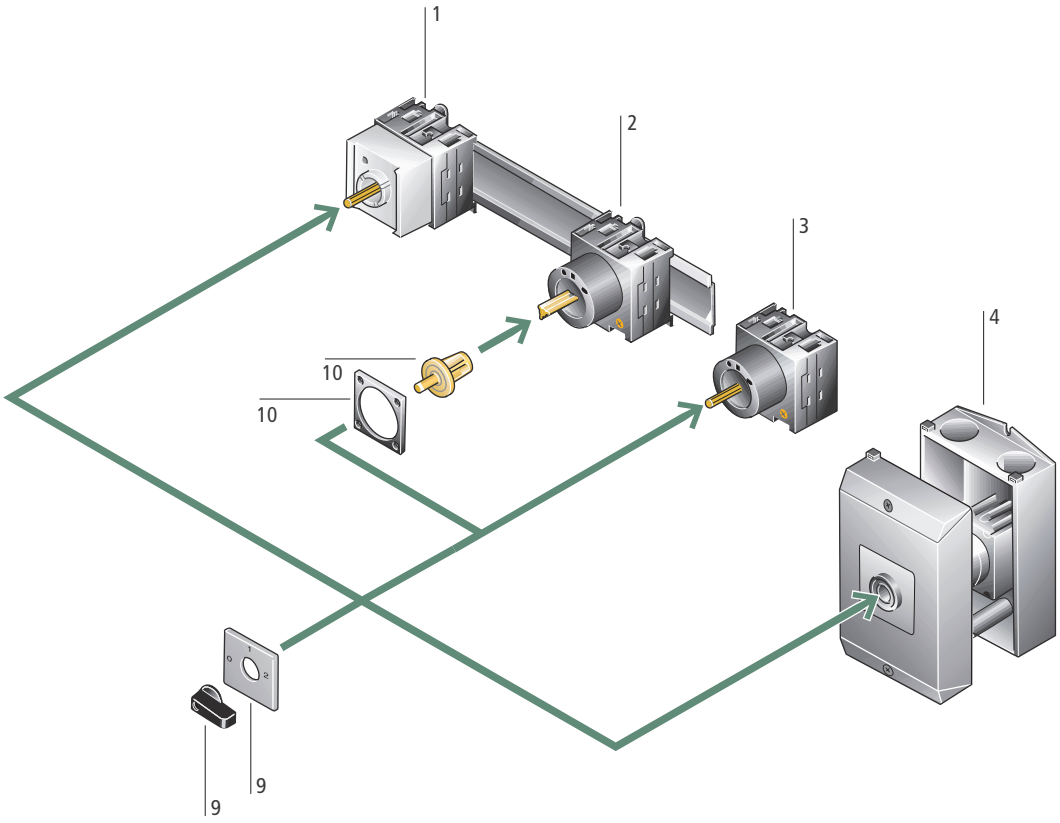
On-Off switches: T0, T3, T5B, T5



T0, T3, T5B, T5 control switches



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Service distribution board mounting (.../IVS) 1
Front IP 30
For snap fitting to IEC/EN 60715 top-hat rail
Flush mounting
Up to 3 contact units in service distribution board (45 mm mounting depth)
Up to 11 contact units in control panel
→ Page 7/17

Rear mounting (.../Z) 2
Front IP65
Secured by screw fixing or snap fitting (T0, T3)
For snap fitting to IEC/EN 60715 top-hat rail
Coupling drive in door or cover
Connection from the front
→ Page 7/17

Rear mounting main switch (.../V/SVB) 2
Front IP65
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3, Up to 8 contacts with T0..., and up to 12 contacts with T3...
With door interlock in the I (On) position
→ Page 7/11

Flush mounting (.../E) 3
Front IP65
Installation and connection from the rear
Terminal: Pozidriv plus-minus screw
Finger- and back-of-hand proof
T8 with extension terminals as standard
→ Page 7/16

Flush mounting main switch (.../EA/SVB) 3
Front IP65
To IEC/EN 60 204, VDE 0113 and IEC/EN 60947-3, Up to 8 contacts with T0..., and up to 12 contacts with T3...
N and PE terminals
→ Page 7/10

Centre mounting (.../EZ) 3
Front IP65
Mounting in ∅ 22.3 fixing hole to IEC/EN 60 947-5-1
"One-man installation" through centre fixing
→ Page 7/17

Surface mounting (.../I...) 4
IP65 totally insulated
With one additional terminal
Enclosures designed for metric cable glands to EN 50262
→ Page 7/17

Surface mounting main switch (.../I...) 4
IP65 totally insulated
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3, Up to 8 contacts with T0..., and up to 10 contacts with T3...
Lockable in the 0 (Off) position using 3 padlocks
Enclosures designed for metric cable glands to EN 50262
With one additional terminal
→ Page 7/11

Safety switch (.../I...) 5
IP65 totally insulated
With one additional terminal
With cover fixing in the 0 (Off) position
Lockable in the 0 (Off) position using 3 padlocks
Enclosures designed for metric cable glands to EN 50262
With "Safety switch" label
Colour: orange
→ Page 7/20

Main switch (assembly kit) for use as Emergency-Stop device 6
To IEC/EN 60 204-1, VDE 0113 Part 1
With red rotary handle and yellow locking collar
Lockable in the 0 (Off) position
→ Page 7/49

Main switch (assembly kit) 7
Black rotary handle and locking collar
Lockable in the 0 (Off) position
→ Page 7/49

Thumb-grip, for use as Emergency-Stop device 8
To IEC/EN 60 204-1, VDE 0113 Part 1
Red thumb-grip with yellow front plate
→ Page 7/49

Thumb-grip 9
Black thumb-grip with front plate
→ Page 7/49

Coupling drive 10
Includes push-fit shaft
For retrofitting of T0(T3)-.../XZ basic switches in rear mounting form
Spare part for T0(T3)/(P1)-.../Z
For conversion of T5(B)-.../E flush mounting switches to rear mounting switches
Spare part for T5(B)/(P3)-...Z
→ Page 7/51

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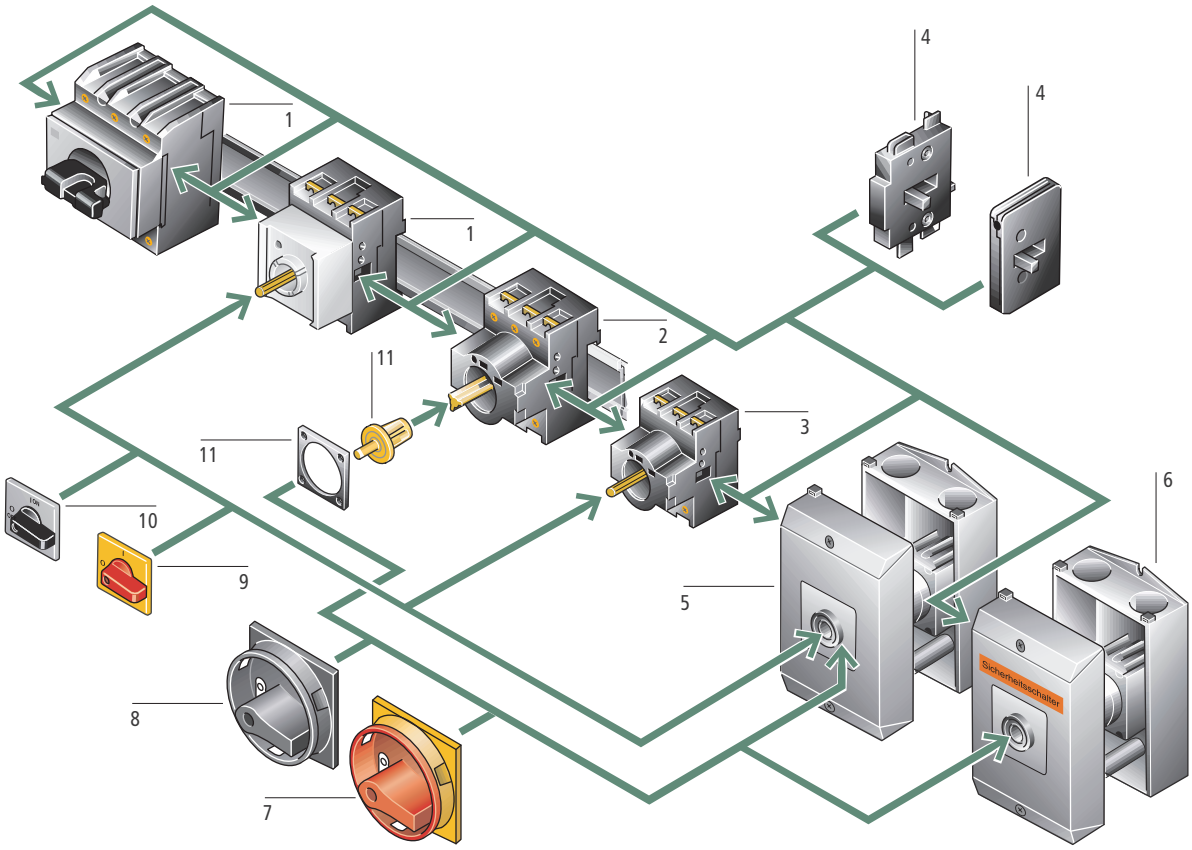
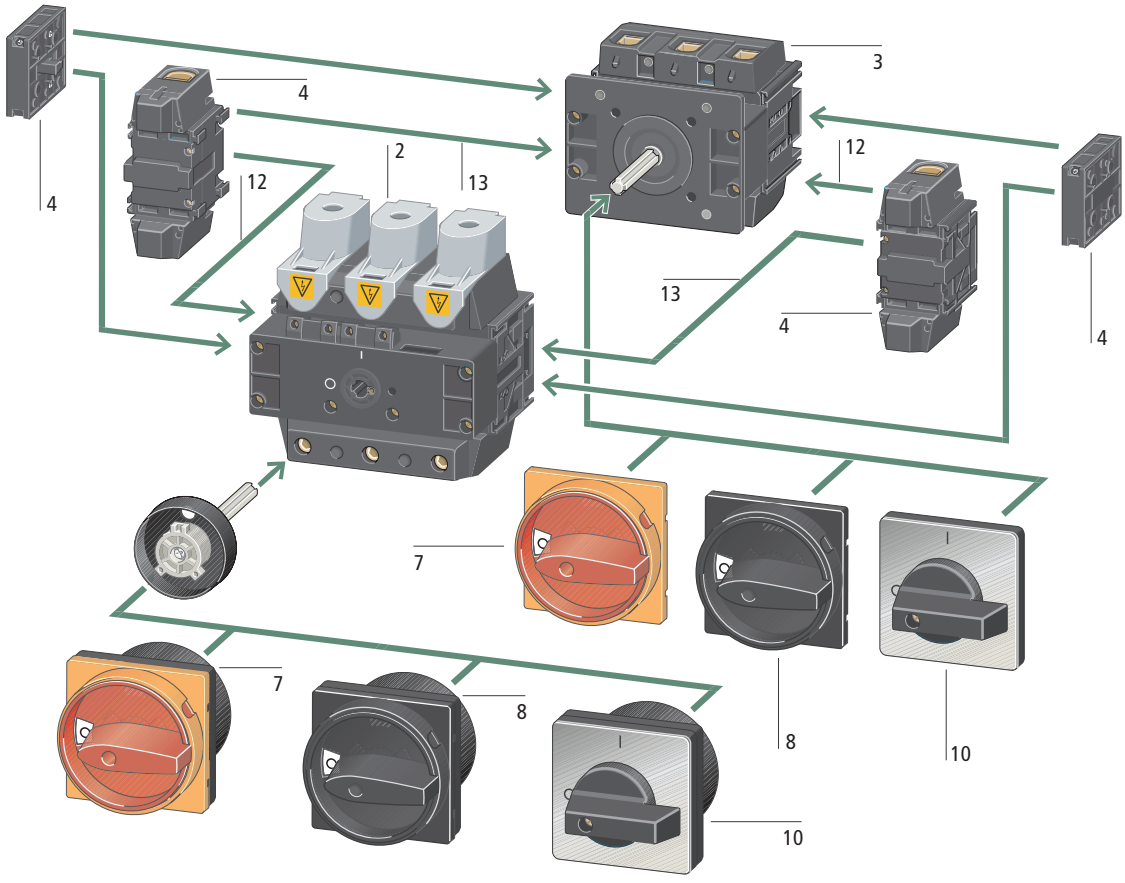
P1, P3 On-Off switches



P5 On-Off switches



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Service distribution board mounting (.../IVS) 1
Front IP 30
Fitting dimensions to DIN 43880
For snap fitting to IEC/EN 60715 top-hat rail
Space requirement
P1, 3-pole: 3 space units
P3, 3-pole: 4 space units
P3-.../IVS lockable in the 0 (Off) position using the padlocking feature
→ Page 7/17

Rear mounting (.../Z) 2
Front IP65
Secured by screw fixing or snap fitting
For snap fitting to IEC/EN 60715 top-hat rail
Coupling drive in door or cover
Connection from the front
2 add-on modules can be fitted (or retrofitted)
→ Page 7/17

Rear mounting main switch (.../V/SVB) 2
Front IP65
To IEC/EN 60 204, VDE 0113 and IEC/EN 60 947-3
With door interlock in the I (On) position
Maintenance key for commissioning or fault retrieval
Lockable in the 0 (Off) position using 3 padlocks
2 add-on modules can be fitted (or retrofitted)
→ Page 7/11

Flush mounting (.../E) 3
Front IP65
Installation and connection from the rear
Terminal:
Pozidriv plus-minus screw
Finger- and back-of-hand proof
2 add-on modules can be fitted (or retrofitted)
→ Page 7/16

Flush mounting main switch (.../EA/SVB) 3
Front IP65
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3
N and PE terminals
Lockable in the 0 (Off) position using 3 padlocks
2 add-on modules can be fitted (or retrofitted)
→ Page 7/10

Centre mounting (.../EZ) 3
Front IP65
Mounting in ∅ 22.3 fixing hole to IEC/EN 60 947-5-1
"One-man installation" through centre fixing
→ Page 7/17

Add-on modules 4
Switched neutral (early-make contact)
Auxiliary contacts
Finger proof
Auxiliary make contact: always connected as load-shedding contact (late make, early break)
→ Page 7/50

Surface mounting (.../I...) 5
IP65 totally insulated
With one additional terminal
Add-on modules for retrofitting: P1: + 1, P3: + 2
Enclosures designed for metric cable glands to EN 50262
→ Page 7/17

Surface mounting main switch (.../I...) 5
IP65 totally insulated
With one additional terminal
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3
Lockable in the 0 (Off) position using 3 padlocks
Add-on modules for retrofitting: P1: +1, P3: +2
Enclosures designed for metric cable glands to EN 50262
→ Page 7/11

Safety switch (.../I...) 6
IP65 totally insulated
With one additional terminal
With cover fixing in the 0 (Off) position
Lockable in the 0 (Off) position using 3 padlocks
With "Safety switch" label
Colour: orange
Enclosures designed for metric cable glands to EN 50262
→ Page 7/20

Main switch (assembly kit) for use as Emergency-Stop device 7
To IEC/EN 60204-1, VDE 0113 Part 1
With red rotary handle and yellow locking collar
Lockable in the 0 (Off) position
→ Page 7/49

Main switch (assembly kit) 8
Black rotary handle and locking collar
Lockable in the 0 (Off) position
→ Page 7/49

Thumb-grip, for use as Emergency-Stop device 9
To IEC/EN 60204-1, VDE 0113 Part 1
Red thumb-grip with yellow front plate
→ Page 7/49

Thumb-grip 10
Black thumb-grip with front plate
→ Page 7/49

Coupling drive 11
Includes push-fit shaft
For retrofitting of T0(T3)-.../XZ basic switches in rear mounting form
Spare part for T0(T3)/(P1)-.../Z
For conversion of T5(B)-.../E flush mounting switches to rear mounting switches
Spare part for T5(B)/(P3)-...Z
→ Page 7/51

Earth terminal 12
Front fitting: right-hand side
service distribution board mounting: left-hand side

Neutral terminal 13
Front fitting: right-hand side
service distribution board mounting: left-hand side
→ Page 7/50

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Rotary switches can be used for numerous switching and control tasks. For example as On-Off switches, main switches, main/auxiliary current control switches, instrument switches.

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

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

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

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

T rotary switches and P switch-disconnectors are manufactured without PCB, CFCs, asbestos and silicone. The contacts are cadmium free.

The CI-K... insulated enclosures do not contain silicone and are halogen free.

Technical Data for CI-K small enclosures:
→ Page 14/74

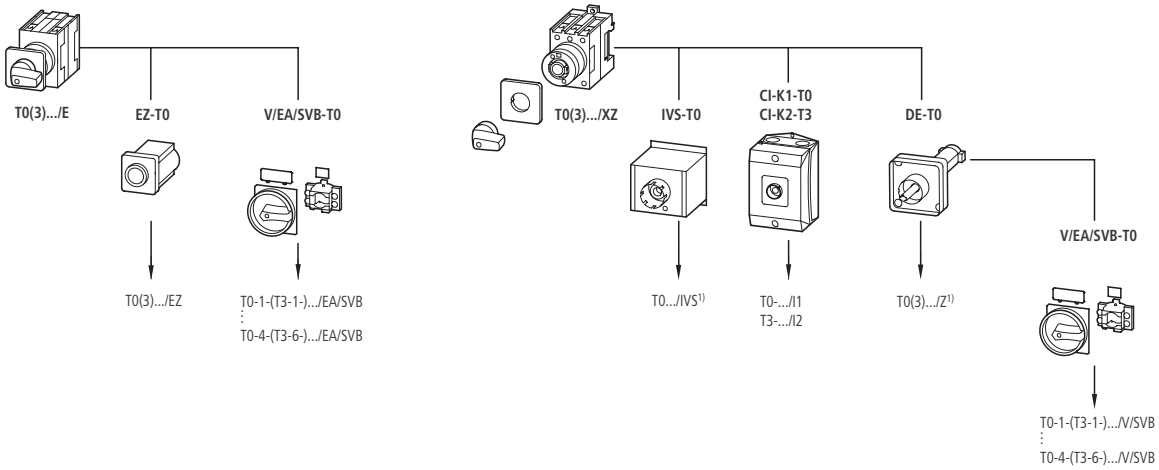
T0 and T3 Rotary Switches

Key to type references

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

Switch size	Number of contact chambers	Contact sequence number	Mounting form
T0 or T3	= contact units		→ Page 7/2

Using the modular system to convert the mounting form



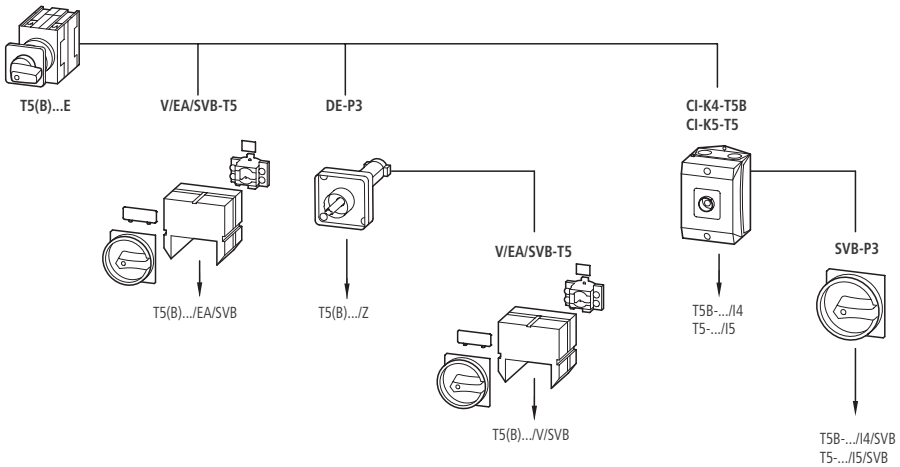
Rotary switches T5(B)

Key to type references

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

Switch size	Number of contact chambers	Contact sequence number	Mounting form
T5(B)	= contact units		→ Page 7/2

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



Notes

1) Including shaft

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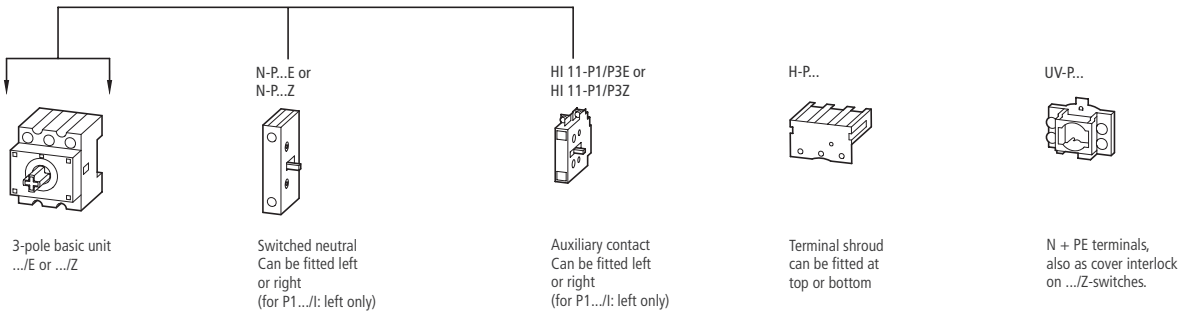
P1 and P3 switch-disconnectors

Key to type references

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

Switch size	Rated uninterrupted current	Mounting form	Type suffix	Accessories
P1 or P3		→ Page 7/2	(if required)	→ Page 7/46

The modular system offers add-on functions



3-pole basic unit .../E or .../Z	Switched neutral Can be fitted left or right (for P1.../I: left only)	Auxiliary contact Can be fitted left or right (for P1.../I: left only)	Terminal shroud can be fitted at top or bottom	N + PE terminals, also as cover interlock on .../Z-switches.

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 currents that occur in electronic control panels, for example. The gold-plated contacts provide extra reliability and safety.

The terminals of the TM switches are numbered consecutively, starting at 1.

Selection Pages: from → Page 7/56

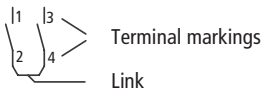
Key to type references

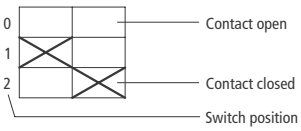
TM- . . . . . - . . . . . / . . . . . + ...

Number of contact chambers = contact units	Contact sequence number	Mounting form	Accessories
		→ Page 7/56	→ Page 7/63

Circuit diagrams

on Pages 7/10 – 43
and 7/56 – 62





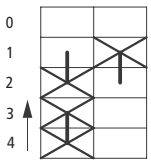
Example:

(see also Ordering Example on Page 7/111)



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

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



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

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

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Rotary Switches, Switch-Disconnectors

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Contact sequence	Front plate no. FS 908	Main contacts No. of poles M	Auxiliary contacts M	Auxiliary contacts B	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	For use as Emergency-Stop devices[1] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	For use as Emergency-Stop devices[1] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	For use as Emergency-Stop devices[1] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
Main switches without auxiliary contacts																				
1 2		1	0	0	6.5	20	**T0-1-8200/...**	**EA/SVB** 053110		**I1/SVB** 207145		**V/SVB** 057856		**EA/SVB-SW** 055483		**I1/SVB-SW** 207146		**V/SVB-SW** 060229		1 off
					13	32	**T3-1-8200/...**	**EA/SVB** 066576		**I2/SVB** 207200		**V/SVB** 007255		**EA/SVB-SW** 068949		**I2/SVB-SW** 207201		**V/SVB-SW** 004882		
					22	63	**T5B-1-8200/...**	**EA/SVB** 094279		**I4/SVB** 207240		**V/SVB** 094273		**EA/SVB-SW** 094278		**I4/SVB-SW** 207241		**V/SVB-SW** 094272		
					30	100	**T5-1-8200/...**	**EA/SVB** 097224		**I5/SVB** 207275		**V/SVB** 097222		**EA/SVB-SW** 097223		**I5/SVB-SW** 207276		**V/SVB-SW** 097221		
1 2 3 4		2	0	0	6.5	20	**T0-1-102/...**	**EA/SVB** 091078		**I1/SVB** 207143		**V/SVB** 095824		**EA/SVB-SW** 093451		**I1/SVB-SW** 207144		**V/SVB-SW** 022330		
					13	32	**T3-1-102/...**	**EA/SVB** 014374		**I2/SVB** 207198		**V/SVB** 019120		**EA/SVB-SW** 016747		**I2/SVB-SW** 207199		**V/SVB-SW** 021493		
					22	63	**T5B-1-102/...**	**EA/SVB** 094469		**I4/SVB** 207238		**V/SVB** 094463		**EA/SVB-SW** 094468		**I4/SVB-SW** 207239		**V/SVB-SW** 094462		
					30	100	**T5-1-102/...**	**EA/SVB** 098808		**I5/SVB** 207273		**V/SVB** 098806		**EA/SVB-SW** 098807		**I5/SVB-SW** 207274		**V/SVB-SW** 098805		
1 2 3 4 5 6		3	0	0	6.5	20	**T0-2-1/...**	**EA/SVB** 038873		**I1/SVB** 207147		**V/SVB** 043619		**EA/SVB-SW** 041246		**I1/SVB-SW** 207148		**V/SVB-SW** 045992		
					13	25	**P1-25/...**	**EA/SVB** 041097		**I2/SVB** 207293		**V/SVB** 055335		**EA/SVB-SW** 048365		**I2/SVB-SW** 207294		**V/SVB-SW** 050738		
					15	32	**P1-32/...**	**EA/SVB** 081438		**I2/SVB** 207314		**V/SVB** 095676		**EA/SVB-SW** 053111		**I2/SVB-SW** 207315		**V/SVB-SW** 055484		
					37	63	**P3-63/...**	**EA/SVB** 031607		**I4/SVB** 207343		**V/SVB** 048218		**EA/SVB-SW** 057857		**I4/SVB-SW** 207344		**V/SVB-SW** 060230		
					50	100	**P3-100/...**	**EA/SVB** 074320		**I5/SVB** 207373		**V/SVB** 088558		**EA/SVB-SW** 062603		**I5/SVB-SW** 207374		**V/SVB-SW** 064976		
1 2 3 4 5 6 7 8		3 + N	0	0	6.5	20	**T0-2-8900/...**	**EA/SVB** 207400		**I1/SVB** 207151		**V/SVB** 207405		**EA/SVB-SW** 207401		**I1/SVB-SW** 207152		**V/SVB-SW** 207406		
1 2 3 4 5 6 N o					13	25	**P1-25/...**	**EA/SVB/N** 081587		**I2/SVB/N** 207298		**V/SVB/N** 086333		**EA/SVB-SW/N** 083960		**I2/SVB-SW/N** 207296		**V/SVB-SW/N** 088706		
					15	32	**P1-32/...**	**EA/SVB/N** 091079		**I2/SVB/N** 207319		**V/SVB/N** 095825		**EA/SVB-SW/N** 093452		**I2/SVB-SW/N** 207317		**V/SVB-SW/N** 098198		
					37	63	**P3-63/...**	**EA/SVB/N** 010398		**I4/SVB/N** 207349		**V/SVB/N** 015144		**EA/SVB-SW/N** 012771		**I4/SVB-SW/N** 207346		**V/SVB-SW/N** 017517		
					50	100	**P3-100/...**	**EA/SVB/N** 019890		**I5/SVB/N** 207379		**V/SVB/N** 024636		**EA/SVB-SW/N** 022263		**I5/SVB-SW/N** 207376		**V/SVB-SW/N** 027009		
1 2 3 4 5 6 7 8 9 10 11 12		6	0	0	6.5	20	**T0-3-8342/...**	**EA/SVB** 029382		**I1/SVB** 207159		**V/SVB** 034128		**EA/SVB-SW** 031755		**I1/SVB-SW** 207160		**V/SVB-SW** 036501		
					13	32	**T3-3-8342/...**	**EA/SVB** 071326		**I2/SVB** 207208		**V/SVB** 076072		**EA/SVB-SW** 073699		**I2/SVB-SW** 207209		**V/SVB-SW** 078445		
					22	63	**T5B-3-8342/...**	**EA/SVB** 092308		**I4/SVB** 207242		**V/SVB** 092300		**EA/SVB-SW** 092307		**I4/SVB-SW** 207243		**V/SVB-SW** 092299		
					30	100	**T5-3-8342/...**	**EA/SVB** 096383		**I5/SVB** 207279		**V/SVB** 096381		**EA/SVB-SW** 096382		**I5/SVB-SW** 207280		**V/SVB-SW** 096380		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		8	0	0	6.5	20	**T0-4-8344/...**	**EA/SVB** 008267		**I1/SVB** 207163		**V/SVB** 014007		**EA/SVB-SW** 008268		**I1/SVB-SW** 207164		**V/SVB-SW** 008272		
					13	32	**T3-4-8344/...**	**EA/SVB** 008964		**I2/SVB** 207212		**V/SVB** 020598		**EA/SVB-SW** 008965		**I2/SVB-SW** 207213		**V/SVB-SW** 008967		
					22	63	**T5B-4-8344/...**	**EA/SVB** 092062		**I4/SVB** 207248		**V/SVB** 092056		**EA/SVB-SW** 092061		**I4/SVB-SW** 207249		**V/SVB-SW** 092055		
					30	100	**T5-4-8344/...**	**EA/SVB** 095961		**I5/SVB**[3] 207283		**V/SVB** 095959		**EA/SVB-SW** 095960		**I5/SVB-SW**[3] 207284		**V/SVB-SW** 095958		

Notes

[1] To IEC/EN 60204-1, VDE 0113, Part 1 with red rotary handle and yellow locking collar, lockable in the 0 position

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

[3] T5-4-8344/I5... max. 95 A

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Contact sequence	Front plate no.	Main contacts No. of poles	Auxiliary contacts		Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz	Rated uninterrupted current I_u	Basic type, insert mounting form identifier	For use as Emergency-Stop devices[1] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List
			M	B	P kW	A			
Main switches with auxiliary contacts									
		3	1	0	6.5	20	**T0-2-15679/...**	**EA/SVB** 081588	
		3	1	1	13	25	**P1-25/...**	**EA/SVB/HI11** 091080	
					15	32	**P1-32/...**	**EA/SVB/HI11** 072567	
					37	63	**P3-63/...**	**EA/SVB/HI11** 019891	
					50	100	**P3-100/...**	**EA/SVB/HI11** 029383	
		3	2	1	6.5	20	**T0-3-15683/...**	**EA/SVB** 015571	
					13	32	**T3-3-15683/...**	**EA/SVB** 040478	
		3 + N	1	1	6.5	20	**T0-3-15680/...**	**EA/SVB** 038875	
					13	32	**T3-3-15680/...**	**EA/SVB** 012002	
					13	25	**P1-25/...**	**EA/SVB/N/HI11** 048367	
					15	32	**P1-32/...**	**EA/SVB/N/HI11** 057859	
					37	63	**P3-63/...**	**EA/SVB/N/HI11** 067351	
					50	100	**P3-100/...**	**EA/SVB/N/HI11** 076843	
					6.5	20	**T0-3-8901/...**	**EA/SVB** 231932	
					13	32	**T3-3-8901/...**	**EA/SVB** 231945	
					22	63	**T5B-3-8901/...**	**EA/SVB** 207420	
					30	100	**T5-3-8901/...**	**EA/SVB** 207408	
		6	1	1	6.5	20	**T0-4-15682/...**	**EA/SVB** 019892	
					13	32	**T3-4-15682/...**	**EA/SVB** 054716	
					22	63	**T5B-4-15682/...**	**EA/SVB** 207425	
					30	100	**T5-4-15682/...**	**EA/SVB** 207413	

Moeller HPL0211-2004/2005

For use as Emergency-Stop devices[1] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	For use as Emergency-Stop devices[1] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
I1/SVB 207149		**V/SVB** 086334		**EA/SVB-SW** 083961		**I1/SVB-SW** 207150		**V/SVB-SW** 088707		1 off
I2/SVB/HI11 207297		**V/SVB/HI11** 095826		**EA/SVB-SW/HI11** 070194		**I2/SVB-SW/HI11** 207295		**V/SVB-SW/HI11** 098199		
I2/SVB/HI11 207318		**V/SVB/HI11** 015145		**EA/SVB-SW/HI11** 012772		**I2/SVB-SW/HI11** 207316		**V/SVB-SW/HI11** 017518		
I4/SVB/HI11 207348		**V/SVB/HI11** 024637		**EA/SVB-SW/HI11** 022264		**I4/SVB-SW/HI11** 207345		**V/SVB-SW/HI11** 027010		
I5/SVB/HI11 207378		**V/SVB/HI11** 034129		**EA/SVB-SW/HI11** 031756		**I5/SVB-SW/HI11** 207375		**V/SVB-SW/HI11** 036502		
I1/SVB 207157		**V/SVB** 015634		**EA/SVB-SW** 015600		**I1/SVB-SW** 207158		**V/SVB-SW** 015664		
I2/SVB 207206		**V/SVB** 045224		**EA/SVB-SW** 042851		**I2/SVB-SW** 207207		**V/SVB-SW** 047597		
I1/SVB 207153		**V/SVB** 043621		**EA/SVB-SW** 041248		**I1/SVB-SW** 207154		**V/SVB-SW** 045994		
I2/SVB 207202		**V/SVB** 016748		**EA/SVB-SW** 014375		**I2/SVB-SW** 207203		**V/SVB-SW** 019121		
		V/SVB/N/HI11 053113		**EA/SVB-SW/N/HI11** 050740				**V/SVB-SW/N/HI11** 055486		
		V/SVB/N/HI11 062605		**EA/SVB-SW/N/HI11** 060232				**V/SVB-SW/N/HI11** 064978		
I4/SVB/N/HI11 207350		**V/SVB/N/HI11** 072097		**EA/SVB-SW/N/HI11** 069724		**I4/SVB-SW/N/HI11** 207347		**V/SVB-SW/N/HI11** 074470		
I5/SVB/N/HI11 207380		**V/SVB/N/HI11** 081589		**EA/SVB-SW/N/HI11** 079216		**I5/SVB-SW/N/HI11** 207377		**V/SVB-SW/N/HI11** 083962		
I1/SVB 231934		**V/SVB** 231936		**EA/SVB-SW** 231933		**I1/SVB-SW** 231935		**V/SVB-SW** 231937		
I2/SVB 218987		**V/SVB** 231947		**EA/SVB-SW** 231946		**I2/SVB-SW** 218988		**V/SVB-SW** 231948		
I4/SVB 207244		**V/SVB** 207422		**EA/SVB-SW** 207421		**I4/SVB-SW** 207245		**V/SVB-SW** 207423		
I5/SVB 207277		**V/SVB** 207410		**EA/SVB-SW** 207409		**I5/SVB-SW** 207278		**V/SVB-SW** 207411		
I1/SVB 207161		**V/SVB** 024638		**EA/SVB-SW** 022265		**I1/SVB-SW** 207162		**V/SVB-SW** 027011		
I2/SVB 207210		**V/SVB** 059462		**EA/SVB-SW** 057089		**I2/SVB-SW** 207211		**V/SVB-SW** 061835		
I4/SVB 207246		**V/SVB** 207427		**EA/SVB-SW** 207426		**I4/SVB-SW** 207247		**V/SVB-SW** 207428		
I5/SVB 207281		**V/SVB** 207415		**EA/SVB-SW** 207414		**I5/SVB-SW** 207282		**V/SVB-SW** 207416		

Notes
[1] To IEC/EN 60 204-1, VDE 0113, Part 1 with red rotary handle and yellow locking collar, lockable in the 0 position
[2] With black rotary handle and locking collar, lockable in the 0 position

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004

Moeller HPL0211-2004

Contact sequence	Front plate no.	Main contacts	Auxiliary contacts		Max. three-phase motor rating	Rated uninterrupted current	Basic type, insert mounting form identifier	For use as Emergency-Stop devices[1] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	For use as Emergency-Stop devices[1] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	For use as Emergency-Stop devices[1] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Without Emergency-Stop function[2] Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
	FS 908	No. of poles			AC-23A 400/415 V 50-60 Hz P	I_u A														
		M	M	B	kW															
Main switches without auxiliary contacts																				
		3	0	0	45	125	**P5-125/...**	**EA/SVB** 280898				**V/SVB** 280914		**EA/SVB-SW** 280911				**V/SVB-SW** 280917		1 off
					55	160	**P5-160/...**	**EA/SVB** 280922				**V/SVB** 280928		**EA/SVB-SW** 280925				**V/SVB-SW** 280931		
					90	250	**P5-250/...**	**EA/SVB** 280936				**V/SVB** 280942		**EA/SVB-SW** 280939				**V/SVB-SW** 280945		
					110	315	**P5-315/...**	**EA/SVB** 280950				**V/SVB** 280956		**EA/SVB-SW** 280953				**V/SVB-SW** 280959		
		3 + N			45	125	**P5-125/...**	**EA/SVB/N** 280910				**V/SVB/N** 280916		**EA/SVB-SW/N** 280913				**V/SVB-SW/N** 280919		
					55	160	**P5-160/...**	**EA/SVB/N** 280924				**V/SVB/N** 280930		**EA/SVB-SW/N** 280927				**V/SVB-SW/N** 280933		
					90	250	**P5-250/...**	**EA/SVB/N** 280938				**V/SVB/N** 280944		**EA/SVB-SW/N** 280941				**V/SVB-SW/N** 280947		
					110	315	**P5-315/...**	**EA/SVB/N** 280952				**V/SVB/N** 280958		**EA/SVB-SW/N** 280955				**V/SVB-SW/N** 280961		
Main switches with auxiliary contacts																				
		3	1	0	45	125	**P5-125/...**	**EA/SVB/HI10** 280899				**V/SVB/HI10** 280915		**EA/SVB-SW/HI10** 280912				**V/SVB-SW/HI10** 280918		1 off
					55	160	**P5-160/...**	**EA/SVB/HI10** 280923				**V/SVB/HI10** 280929		**EA/SVB-SW/HI10** 280926				**V/SVB-SW/HI10** 280932		
					90	250	**P5-250/...**	**EA/SVB/HI10** 280937				**V/SVB/HI10** 280943		**EA/SVB-SW/HI10** 280940				**V/SVB-SW/HI10** 280946		
					110	315	**P5-315/...**	**EA/SVB/HI10** 280951				**V/SVB/HI10** 280957		**EA/SVB-SW/HI10** 280954				**V/SVB-SW/HI10** 280960		
		6	1	1	55	160	**T6-160-6/...**					**V/SVB/HI11** 200619				**I45/SVB-SW/HI11**[4] 201447		**V/SVB-SW/HI11** 200127		
					132	315[3]	**T8-3-8342/...**					**V/SVB/HI11** 200620				**I48/SVB-SW/HI11**[5] 201449		**V/SVB-SW/HI11** 200128		
																		I45/SVB/HI11[4] 201448		
																		I48/SVB/HI11[5] 201450		

Notes

[1] To IEC/EN 60 204-1, VDE 0113, Part 1 with red rotary handle and yellow locking collar, lockable in the 0 position
[2] With black rotary handle and locking collar, lockable in the 0 position
[3] Rated uninterrupted current, 315 A: in enclosed version up to 275 A
[4] Enclosures without flanges, with K95/1N/BR
[5] With KS4-CI and K150/1/BR, IP64

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Moeller HPL0211-2004/2005

Contact sequence	Front plate no. FS 908	Main contacts No. of poles M	Auxiliary contacts M	Auxiliary contacts B	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
On-Off switches without auxiliary contacts																		
With black thumb-grip and front plate																		
1 2		1	0	0	6.5	20	**T0-1-8200/...**	**E** 067352		**EZ** 069725		**I1** 207074		**IVS** 074471		**Z** 076844		1 off
					13	32	**T3-1-8200/...**	**E** 064208		**EZ** 066581		**I2** 207167				**Z** 071327		
					22	63	**T5B-1-8200/...**	**E** 094281				**I4** 207218				**Z** 094270		
1 2 3 4		2	0	0	6.5	20	**T0-1-102/...**	**E** 088709		**EZ** 091082		**I1** 207061		**IVS** 015147		**Z** 095828		
					13	32	**T3-1-102/...**	**E** 076073		**EZ** 078446		**I2** 207165				**Z** 083192		
					22	63	**T5B-1-102/...**	**E** 094471				**I4** 207215				**Z** 094460		
1 2 3 4 5 6		3	0	0	6.5	20	**T0-2-1/...**	**E** 024639		**EZ** 027012		**I1** 207081		**IVS** 031758		**Z** 036504		
					13	25	**P1-25/...**	**E** 038724		**EZ** 041250		**I2** 207299		**IVS** 052962		**Z** 057708		
					15	32	**P1-32/...**	**E** 079065		**EZ** 048369		**I2** 207320		**IVS** 093303		**Z** 098049		
					37	63	**P3-63/...**	**E** 026861				**I4** 207356		**IVS** 041099		**Z** 050591		
					50	100	**P3-100/...**	**E** 067201				**I5** 207381		**IVS** 081439		**Z** 090931		
					45	125	**P5-125/...**	**E** 280897								**Z** 280920		
					55	160	**P5-160/...**	**E** 280921								**Z** 280934		
					90	250	**P5-250/...**	**E** 280935								**Z** 280948		
					110	315	**P5-315/...**	**E** 280949								**Z** 280962		
1 2 3 4 5 6 7 8		3 + N	0	0	6.5	20	**T0-2-8900/...**	**E** 207398		**EZ** 207402		**I1** 207109		**IVS** 207403		**Z** 207407		
1 2 3 4 5 6 N0 N					13	25	**P1-25/...**	**E/N** 076845		**EZ/N** 079218		**I2/N** 207303		**IVS/N** 083964		**Z/N** 088710		
					15	32	**P1-32/...**	**E/N** 093456		**EZ/N** 095829		**I2/N** 207324		**IVS/N** 010402		**Z/N** 015148		
					37	63	**P3-63/...**	**E/N** 019894				**I4/N** 207360		**IVS/N** 022267		**Z/N** 027013		
					50	100	**P3-100/...**	**E/N** 031759				**I5/N** 207385		**IVS/N** 034132		**Z/N** 038878		
1 2 3 4 5 6 7 8 9 10 11 12		6	0	0	6.5	20	**T0-3-8342/...**	**E** 043624		**EZ** 045997		**I1** 207131		**IVS** 050743		**Z** 055489		
					13	32	**T3-3-8342/...**	**E** 045225		**EZ** 047598		**I2** 207187				**Z** 052344		
					22	63	**T5B-3-8342/...**	**E** 092310				**I4** 207226				**Z** 092297		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16		8	0	0	6.5	20	**T0-4-8344/...**	**E** 014000		**EZ** 014002		**I1** 207139		**IVS** 014006		**Z** 014009		
					13	32	**T3-4-8344/...**	**E** 020593		**EZ** 020595		**I2** 207194				**Z** 020600		
					22	63	**T5B-4-8344/...**	**E** 092064				**I4** 207233				**Z** 092053		

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Contact sequence	Front plate no. FS 908	Main contacts No. of poles	Auxiliary contacts M	Auxiliary contacts B	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	**Flush mounting** Front IP65 Mounting form type Article no.	**Price** See Price List
On-Off switches with auxiliary contacts									
With black thumb-grip and front plate									
1 0 2 0		3	1	0	6.5	20	**T0-2-15679/...**	**E** 029387	
1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0			2	1	6.5	20	**T0-3-8901/...**	**E** 231938	
					13	32	**T3-3-8901/...**	**E** 231949	
1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0					6.5	20	**T0-3-15683/...**	**E** 016619	
					13	32	**T3-3-15683/...**	**E** 014377	
1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0 9 0 10 0 11 0 12 0 13 0 14 0 15 0 16 0		6	1	1	6.5	20	**T0-4-15682/...**	**E** 010405	
					13	32	**T3-4-15682/...**	**E** 023869	
					22	63	**T5B-4-15682/...**	**E** 207424	
					30	100	**T5-4-15682/...**	**E** 207412	
On-Off switches for use as Emergency-Stop devices									
To IEC/EN 60 204-1, VDE 113 Part 1: with red thumb-grip and yellow front plate									
1 0 2 0		1	0	0	6.5	20	**T0-1-8200/...**	**E-RT** 009474	
					13	32	**T3-1-8200/...**	**E-RT** 017025	
					22	63	**T5B-1-8200/...**	**E-RT** 094280	
					30	100	**T5-1-8200/...**	**E-RT** 097225	
1 0 2 0 3 0 4 0		2	0	0	6.5	20	**T0-1-102/...**	**E-RT** 009046	
					13	32	**T3-1-102/...**	**E-RT** 016318	
					22	63	**T5B-1-102/...**	**E-RT** 094470	
					30	100	**T5-1-102/...**	**E-RT** 098809	
1 0 2 0 3 0 4 0 5 0 6 0		3	0	0	6.5	20	**T0-2-1/...**	**E-RT** 011082	
					13	25	**P1-25/...**	**E-RT** 002388	
					15	32	**P1-32/...**	**E-RT** 003197	
					37	63	**P3-63/...**	**E-RT** 005743	
					50	100	**P3-100/...**	**E-RT** 007189	
1 0 2 0 3 0 4 0 5 0 6 0 7 0 8 0		3 + N	0	0	6.5	20	**T0-2-8900/...**	**E-RT** 207399	

Moeller HPL0211-2004/2005

Centre mounting Front IP65 Mounting form type Article no.	**Price** See Price List	**Surface mounting** IP65 totally insulated Mounting form type Article no.	**Price** See Price List	**Service distribution board mounting** Front IP 30 Mounting form type Article no.	**Price** See Price List	**Rear mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack
EZ 031760		**I1** 207094		**IVS** 036506		**Z** 041252		1 off
EZ 231939		**I1** 231941		**IVS** 231940		**Z** 231942		
EZ 231950		**I2** 231951				**Z** 231952		
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		
		I1-RT 207075		**IVS-RT** 081956				1 off
		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				

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Contact sequence	Front plate no.	Main contacts No. of poles	Auxiliary contacts M	Auxiliary contacts B	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	For use as Emergency-Stop devices[1] Surface mounting IP65 totally insulated Type Article no.	Price See Price List	Without Emergency-Stop function[2] Surface mounting IP65 totally insulated Type Article no.	Price See Price List	Std. pack
Safety switches with warning label											
	FS 908	3	0	0	13	25	**P1-25/I2-SI** 207308		**P1-25/I2-SI-SW** 207309		1 off
		3	0	0	15	32	**P1-32/I2-SI** 207329		**P1-32/I2-SI-SW** 207330		
		3 + N	0	0	13	25	**P1-25/I2-SI/N** 207312		**P1-25/I2-SI/N-SW** 207313		
		3 + N	0	0	15	32	**P1-32/I2-SI/N** 207333		**P1-32/I2-SI/N-SW** 207334		
With auxiliary contacts		3	1	1	13	25	**P1-25/I2-SI/HI11** 207310		**P1-25/I2-SI/HI11-SW** 207311		
		3	1	1	15	32	**P1-32/I2-SI/HI11** 207331		**P1-32/I2-SI/HI11-SW** 207332		
		3	0	0	37	63	**P3-63/I4-SI** 207361		**P3-63/I4-SI-SW** 207362		
		3	0	0	50	100	**P3-100/I5-SI** 207386		**P3-100/I5-SI-SW** 207387		
		3 + N	0	0	37	63	**P3-63/I4-SI/N** 207365		**P3-63/I4-SI/N-SW** 207366		
		3 + N	0	0	50	100	**P3-100/I5-SI/N** 207390		**P3-100/I5-SI/N-SW** 207391		
With auxiliary contacts		3	1	1	37	63	**P3-63/I4-SI/HI11** 207363		**P3-63/I4-SI/HI11-SW** 207364		
		3	1	1	50	100	**P3-100/I5-SI/HI11** 207388		**P3-100/I5-SI/HI11-SW** 207389		
		6	0	0	22	63	**T5B-3-8342/I4-SI** 207250		**T5B-3-8342/I4-SI-SW** 207251		
		6	0	0	30	100	**T5-3-8342/I5-SI** 207447		**T5-3-8342/I5-SI-SW** 207448		
With auxiliary contacts		6	1	1	22	63	**T5B-4-15682/I4-SI** 207254		**T5B-4-15682/I4-SI-SW** 207255		
		6	1	1	30	100	**T5-4-15682/I5-SI** 207285		**T5-4-15682/I5-SI-SW** 207286		
With auxiliary contacts		6	2	0	22	63	**T5B-4-8903/I4-SI** 207258		**T5B-4-8903/I4-SI-SW** 207259		
		6	2	0	30	100	**T5-4-8903/I5-SI** 207289		**T5-4-8903/I5-SI-SW** 207290		

Notes

[1] Surface mounting IP65: with red rotary handle and yellow locking collar, lockable in the 0 position with cover interlock, to IEC/EN 60204-1, VDE 0113 Part 1

[2] Surface mounting IP65: with black rotary handle and locking collar, lockable in the 0 position with cover interlock

Engineering

Maintenance and safety switches all have the same electrical function. An electrical system (load) must be safely disconnected from the mains for the duration of maintenance or repair work, in order to prevent any risk to personnel, machinery or products.
A safety switch is an additional, enclosed main switch = isolator dedicated to an individual electrical load and mounted in the immediate vicinity of this motor or electrical load. It is intended to enable safe working to VDE 0105. This is particularly important if there is any danger of the main switches being mistakenly operated.

Application

By inserting his own padlock (up to 3 can be fitted), each participating fitter/electrician can protect himself from anyone else switching On without authority. Maintenance switches are merely additional, enclosed main switches with padlocking facility.

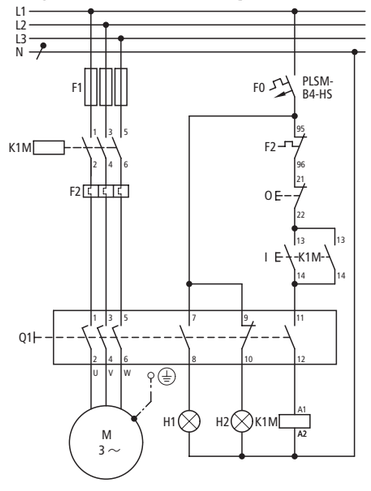
Features

- Safety switches are housed in insulated enclosures and bear the inscription "Safety switch" on a bright orange label.
- Switches to be used for Emergency-Stop switching have a red handle and yellow locking collar, in accordance with STOP category O to IEC/EN 60204/VDE 0113.
- Switches that are not admissible for use as Emergency-Stop have both parts in black (type suffix "-SW").
- The cover and handle are interlocked when a padlock is in place.

Selection

Switches must be selected according to the following criteria:
1) The motor switching capacity, where the switch is fitted in such a way that the operator may use it for operational On and Off switching.
2) The motor rating applies for 3 poles as standard. Where the motor rating is divided between 6 poles, such as for a motor with star-delta starting, the 1.73 fold rating can be controlled with a 6-pole switch.
3) The uninterrupted current, where the switch has a load-shedding contact (LA). The load-shedding contact is an auxiliary contact that is closed in the On position and opens early when switching Off, such that a contactor in the circuit takes over the switching duty, and the maintenance/safety switch operates at zero load. When switching On, the load-shedding contact closes later than or at the same time as the main contacts. With P and T switches, this is achieved by the auxiliary make contact.
4) The handle (which may need to be changed accordingly) can be padlocked in the On position. This is not permissible for switches with red/yellow handle.

Safety switch with load shedding and indication



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Rotary Switches, Switch-Disconnectors

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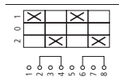
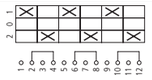
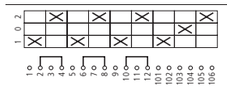
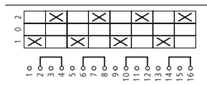
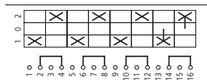
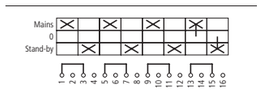
Contact sequence	Front plate no.	No. of poles	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	**Flush mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack	**Centre mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack	**Surface mounting** IP65 totally insulated Mounting form type Article no.	**Price** See Price List	Std. pack	**Service distribution board mounting** Front IP 30 Mounting form type Article no.	**Price** See Price List	Std. pack	**Rear mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack
Changeover switches with 0 (Off) position,																				
With black thumb-grip and front plate																				
Group switches, mains transfer switches																				
	 FS 684	1	6.5	20	**T0-1-8210/...**	**E** 012742		1 off	**EZ** 048337		1 off	**I1** 207076		1 off	**IVS** 074440		1 off	**Z** 019862		1 off
			13	32	**T3-1-8210/...**	**E** 054718			**EZ** 003072		1 off	**I2** 207169						**Z** 057091		
			22	63	**T5B-1-8210/...**	**E** 094261						**I4** 207432						**Z** 094258		
		2	6.5	20	**T0-2-8211/...**	**E** 022234			**EZ** 053083		1 off	**I1** 207102			**IVS** 076813		1 off	**Z** 029354		
			13	32	**T3-2-8211/...**	**E** 061837			**EZ** 003075		1 off	**I2** 207178						**Z** 064210		
			22	63	**T5B-2-8211/...**	**E** 093094						**I4** 207220						**Z** 093082		
		3	6.5	20	**T0-3-8212/...**	**E** 029353			**EZ** 057829		1 off	**I1** 207123			**IVS** 079186		1 off	**Z** 036473		
			13	32	**T3-3-8212/...**	**E** 068956			**EZ** 003080		1 off	**I2** 207183						**Z** 071329		
			22	63	**T5B-3-8212/...**	**E** 092386						**I4** 207223						**Z** 092383		
			30	100	**T5-3-8212/...**	**E** 096466						**I5** 207266						**Z** 096464		
			45	125	**T6-3-8212/...**	**E/HI12** 214781														
			132	315	**T8-3-8212/...**	**E/HI12** 214782														
	 FS 684	4	6.5	20	**T0-4-8213/...**	**E** 031726			**EZ** 062575		1 off	**I1** 207136		1 off	**IVS** 081559		1 off	**Z** 043592		
			13	32	**T3-4-8213/...**	**E** 076075			**EZ** 003079		1 off	**I2** 207191						**Z** 078448		
			22	63	**T5B-4-8213/...**	**E** 092112						**I4** 207230						**Z** 092109		
			30	100	**T5-4-8213/...**	**E** 096014						**I5** 207270						**Z** 096012		
	 FS 953		6.5	20	**T0-4-8294/...**	**E** 010371			**EZ** 072069		1 off	**I1** 207138			**IVS** 043594		1 off	**Z** 048347		
			13	32	**T3-4-8294/...**	**E** 002513			**EZ** 001014		1 off	**I2** 207193						**Z** 004886		
			22	63	**T5B-4-8294/...**	**E** 092084						**I4** 207232						**Z** 092081		
			30	100	**T5-4-8294/...**	**E** 095986						**I5** 207433						**Z** 095984		
	 FS 161629		13	32	**T3-4-8902/...**	**E** 215222			**EZ** 215223		1 off	**I2** 215224						**Z** 215225		
			22	63	**T5B-4-8902/...**	**E** 207430						**I4** 207237						**Z** 207431		
			30	100	**T5-4-8902/...**	**E** 207418						**I5** 207214						**Z** 207419		

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Rotary Switches, Switch-Disconnectors

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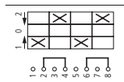
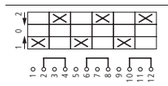
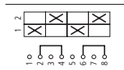
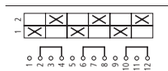
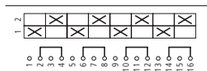
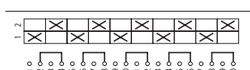
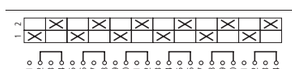
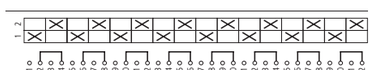
Contact sequence	Front plate no.	No. of poles B	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	**Flush mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack
Changeover switches with 0 (Off) position,								
With black thumb-grip and front plate								
With spring-return from both directions to 0								
	 FS 4011	1	6.5	20	**T0-1-8214/...**	**E** 019863		1 off
		1	13	32	**T3-1-8214/...**	**E** 009632		
		2	6.5	20	**T0-2-8215/...**	**E** 022236		
		2	13	32	**T3-2-8215/...**	**E** 016751		
		3	6.5	20	**T0-3-8216/...**	**E** 024609		
		3	13	32	**T3-3-8216/...**	**E** 023870		
Changeover switches without 0 (Off) position,								
With black thumb-grip and front plate								
Changeover switches								
	 FS 943	1	6.5	20	**T0-1-8220/...**	**E** 031728		1 off
		1	13	32	**T3-1-8220/...**	**E** 038108		
		2	6.5	20	**T0-2-8221/...**	**E** 038847		
		2	13	32	**T3-2-8221/...**	**E** 045227		
		2	22	63	**T5B-2-8221/...**	**E** 093047		
		3	6.5	20	**T0-3-8222/...**	**E** 048339		
		3	13	32	**T3-3-8222/...**	**E** 052346		
		3	22	63	**T5B-3-8222/...**	**E** 092378		
		4	6.5	20	**T0-4-8223/...**	**E** 050712		
		4	13	32	**T3-4-8223/...**	**E** 059465		
		4	22	63	**T5B-4-8223/...**	**E** 092108		
		5	6.5	20	**T0-5-8369/...**	**E** 060204		
		5	13	32	**T3-5-8369/...**	**E** 066584		
		6	6.5	20	**T0-6-8370/...**	**E** 062577		
		6	13	32	**T3-6-8370/...**	**E** 073703		
		8	6.5	20	**T0-8-8372/...**	**E** 064950		
		8	13	32	**T3-8-8372/...**	**E** 080822		

Moeller HPL0211-2004/2005

Centre mounting Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack	**Surface mounting** IP65 totally insulated Mounting form type Article no.	**Price** See Price List	Std. pack	**Service distribution board mounting** Front IP 30 Mounting form type Article no.	**Price** See Price List	Std. pack	**Rear mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack
EZ 076815		1 off	**I1** 207077		1 off	**IVS** 045967		1 off	**Z** 050720		1 off
EZ 001073			**I2** 207170						**Z** 012005		
EZ 081561			**I1** 207103			**IVS** 048340		1 off	**Z** 053093		
EZ 001074			**I2** 207179						**Z** 019124		
EZ 086307			**I1** 207434			**IVS** 050713		1 off	**Z** 055466		
EZ 001077			**I2** 207184						**Z** 026243		
EZ 095799		1 off	**I1** 207078		1 off	**IVS** 055459		1 off	**Z** 086312		1 off
EZ 001018			**I2** 207171						**Z** 040481		
EZ 010372			**I1** 207104			**IVS** 057832		1 off	**Z** 074450		
EZ 001025			**I2** 207180						**Z** 047600		
			I4 207221						**Z** 093044		
EZ 015118		1 off	**I1** 207124			**IVS** 060205		1 off	**Z** 088686		
EZ 001069		1 off	**I2** 207185						**Z** 057092		
			I4 207224						**Z** 092375		
EZ 019864		1 off	**I1** 207137			**IVS** 062578		1 off	**Z** 086315		
EZ 001070		1 off	**I2** 207192						**Z** 061838		
			I4 207231						**Z** 092105		
EZ 024610		1 off				**IVS** 064951		1 off	**Z** 098180		
EZ 004503			**I2** 207536		1 off				**Z** 068957		
EZ 029356						**IVS** 067324		1 off	**Z** 010380		
EZ 004506									**Z** 078449		
EZ 034102						**IVS** 069697		1 off	**Z** 012753		
EZ 004508									**Z** 083195		

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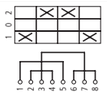
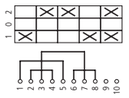
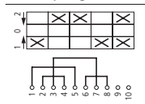
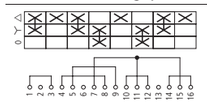
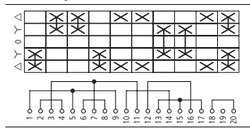
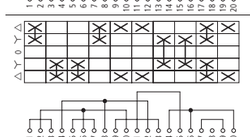
Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Moeller HPL0211-2004/2005

Contact sequence	Front plate no.	No. of poles	Max. three-phase-motor rating AC-23A 400/415 V 50-60 Hz	Rated uninterrupted current	Flush mounting Front IP65			Centre mounting Front IP65			Surface mounting IP65 totally insulated			Service distribution board mounting Front IP 30			Rear mounting Front IP65		
		M	P kW	I_u A	Basic type, insert mounting form identifier	Mounting form type Article no.	Price See Price List	Mounting form type Article no.	Price See Price List	Std. pack	Mounting form type Article no.	Price See Price List	Std. pack	Mounting form type Article no.	Price See Price List	Std. pack	Mounting form type Article no.	Price See Price List	Std. pack
Reversing switches with 0 (Off) position																			
With black thumb-grip and front plate																			
Without spring-return																			
	 FS 684	2	6.5	20	**T0-2-8400/...**	**E** 053079		**EZ** 055452		1 off	**I1** 207111		1 off	**IVS** 060198		1 off	**Z** 062571		1 off
			13	32	**T3-2-8400/...**	**E** 073695		**EZ** 000687		1 off	**I2** 207181						**Z** 095060		
			22	63	**T5B-2-8400/...**	**E** 092918					**I4** 207222						**Z** 092915		
		3	6.5	20	**T0-3-8401/...**	**E** 091047		**EZ** 093420		1 off	**I1** 207132			**IVS** 098166		1 off	**Z** 010366		
			13	32	**T3-3-8401/...**	**E** 030992		**EZ** 000694		1 off	**I2** 207188						**Z** 035739		
			22	63	**T5B-3-8401/...**	**E** 092296					**I4** 207227						**Z** 092293		
With spring-return from both directions to 0																			
	 FS 4011	3	6.5	20	**T0-3-8228/...**	**E** 015112		**EZ** 048334		1 off	**I1** 207125		1 off	**IVS** 062572		1 off	**Z** 074437		1 off
			13	32	**T3-3-8228/...**	**E** 002538		**EZ** 000695		1 off	**I2** 207186						**Z** 004911		
			22	63	**T5B-3-8228/...**	**E** 092374					**I4** 207225						**Z** 092371		
Star-delta switches																			
With black thumb-grip and front plate																			
	 FS 635	3	6.5	20	**T0-4-8410/...**	**E** 024604		**EZ** 053080		1 off	**I1** 207140		1 off	**IVS** 064945		1 off	**Z** 083929		1 off
			13	32	**T3-4-8410/...**	**E** 009657		**EZ** 000721		1 off	**I2** 207195						**Z** 012030		
			22	63	**T5B-4-8410-/...**	**E** 092052					**I4** 207234						**Z** 092049		
Reversing star-delta switches																			
With black thumb-grip and front plate																			
Two-way switches																			
	 FS 638	3	6.5	20	**T0-5-15876/...**	**E** 000893		**EZ** 000900		1 off				**IVS** 000902		1 off	**Z** 000942		1 off
			13	32	**T3-5-15876/...**	**E** 016776		**EZ** 000797		1 off	**I2** 207537		1 off				**Z** 019149		
	 FS 4017		22	63	**T5B-5-15876/...**	**E** 214785											**Z** 214786		

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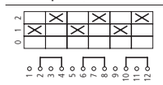
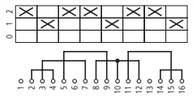
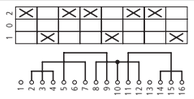
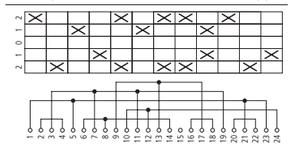
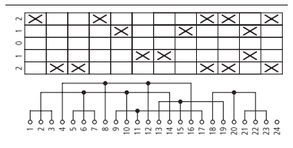
Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Moeller HPL0211-2004/2005

Contact sequence	Front plate no.	No. of poles M	Max. three-phase-motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A	Basic type, insert mounting form identifier	**Flush mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack	**Centre mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack	**Surface mounting** IP65 totally insulated Mounting form type Article no.	**Price** See Price List	Std. pack	**Service distribution board mounting** Front IP 30 Mounting form type Article no.	**Price** See Price List	Std. pack	**Rear mounting** Front IP65 Mounting form type Article no.	**Price** See Price List	Std. pack
Multi-speed switches																				
With black thumb-grip and front plate																				
Two-speed, non reversing, for two separate windings																				
	 FS 644	3	6.5	20	**T0-3-8451/...**	**E** 038849		1 off	**EZ** 083936		1 off	**I1** 207133		1 off	**IVS** 026985		1 off	**Z** 043596		1 off
			13	32	**T3-3-8451/...**	**E** 028641			**EZ** 000956		1 off	**I2** 207189						**Z** 031014		
			22	63	**T5B-3-8451/...**	**E** 092288						**I4** 207228						**Z** 092285		
For one tapped winding																				
	 FS 644	3	6.5	20	**T0-4-8440/...**	**E** 041222		1 off	**EZ** 088682		1 off	**I1** 207141		1 off	**IVS** 029358		1 off	**Z** 048342		1 off
			13	32	**T3-4-8440/...**	**E** 035760			**EZ** 000959		1 off	**I2** 207196						**Z** 038133		
			22	63	**T5B-4-8440/...**	**E** 092032						**I4** 207235						**Z** 092029		
	 FS 684		6.5	20	**T0-4-8441/...**	**E** 043595			**EZ** 093428		1 off	**I1** 207142		1 off	**IVS** 031731		1 off	**Z** 053088		
			13	32	**T3-4-8441/...**	**E** 042879			**EZ** 000960		1 off	**I2** 207197						**Z** 045252		
			22	63	**T5B-4-8441/...**	**E** 092028						**I4** 207236						**Z** 092025		
Reversing multi-speed switches																				
With black thumb-grip and front plate																				
Two-speed, two directions, for one tapped winding																				
	 FS 629	3	6.5	20	**T0-6-15866/...**	**E** 055460		1 off	**EZ** 012747		1 off				**IVS** 036477		1 off	**Z** 067326		1 off
			13	32	**T3-6-15866/...**	**E** 054744			**EZ** 000964		1 off							**Z** 057117		
	 FS 441		22	63	**T5B-7-15866/...**	**E** 214788												**Z** 214789		

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Rotary Switches, Switch-Disconnectors

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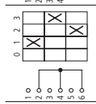
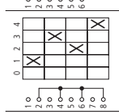
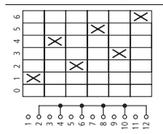
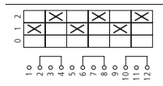
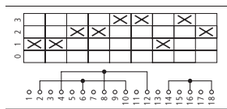
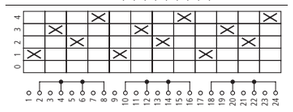
Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 — Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 — Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 — Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 — Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 — Mounting form type Article no.	Price See Price List	Std. pack
Step switches																		
With black thumb-grip and front plate One contact closed per step (without overlap)																		
With additional 0 (Off) position																		
	 FS 418	1	**T0-1-8240/...**	**E** 034105		1 off	**EZ** 043597		1 off	**I1** 207079		1 off	**IVS** 027076		1 off	**Z** 060208		1 off
	 FS 420		**T0-2-8241/...**	**E** 050716			**EZ** 053089			**I1** 207107			**IVS** 057835			**Z** 062581		
	 FS 422		**T0-2-8242/...**	**E** 067327			**EZ** 069700			**I1** 207108			**IVS** 074446			**Z** 076819		
	 FS 424		**T0-3-8243/...**	**E** 081565			**EZ** 083938			**I1** 207128			**IVS** 088684			**Z** 091057		
	 FS 426		**T0-3-8244/...**	**E** 095803			**EZ** 098176			**I1** 207129			**IVS** 012749			**Z** 015122		
	 FS 418	3	**T0-3-8280/...**	**E** 034106			**EZ** 036479			**I1** 207130			**IVS** 041225			**Z** 043598		
	 FS 420		**T0-5-8281/...**	**E** 048344			**EZ** 050717						**IVS** 055463			**Z** 057836		
	 FS 422		**T0-6-8282/...**	**E** 062582			**EZ** 064955						**IVS** 069701			**Z** 072074		

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Moeller HPL0211-2004/2005

Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
Step switches																		
With black thumb-grip and front plate One contact closed per step (without overlap)																		
Without 0 (Off) position																		
	FS 943	1	**T0-1-8220/...**	**E** 031728		1 off	**EZ** 095799		1 off	**I1** 207078		1 off	**IVS** 055459		1 off	**Z** 086312		1 off
	FS 404	1	**T0-2-8230/...**	**E** 088685			**EZ** 091058			**I1** 207105			**IVS** 095804			**Z** 098177		
	FS 606	1	**T0-2-8231/...**	**E** 012750			**EZ** 015123			**I1** 207106			**IVS** 019869			**Z** 022242		
	FS 408	1	**T0-3-8232/...**	**E** 026988			**EZ** 029361			**I1** 207126			**IVS** 034107			**Z** 036480		
	FS 410	1	**T0-3-8233/...**	**E** 041226			**EZ** 043599			**I1** 207127			**IVS** 048345			**Z** 050718		
	FS 406	2	**T0-4-8251/...**	**E** 013971			**EZ** 013972			**I1** 218984			**IVS** 013974			**Z** 013976		
	FS 943	3	**T0-3-8222/...**	**E** 048339			**EZ** 015118			**I1** 207124			**IVS** 060205			**Z** 088686		
	FS 404	3	**T0-5-8270/...**	**E** 091059			**EZ** 093432						**IVS** 098178			**Z** 010378		
	FS 406	3	**T0-6-8271/...**	**E** 015124			**EZ** 017497						**IVS** 022243			**Z** 024616		
On-Off switches																		
With black thumb-grip and front plate																		
	FS 415	1	**T0-1-15401/...**	**E** 038854		1 off	**EZ** 041227		1 off	**I1** 207067		1 off	**IVS** 045973		1 off	**Z** 048346		1 off
		2	**T0-1-15402/...**	**E** 053092			**EZ** 055465			**I1** 207068			**IVS** 060211			**Z** 062584		
		3	**T0-2-15403/...**	**E** 067330			**EZ** 069703			**I1** 207088			**IVS** 074449			**Z** 076822		
		4	**T0-2-15404/...**	**E** 081568			**EZ** 083941			**I1** 207089			**IVS** 088687			**Z** 091060		

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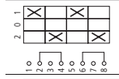
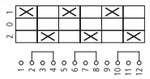
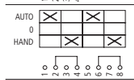
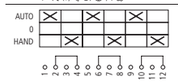
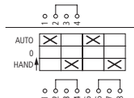
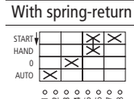
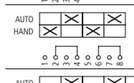
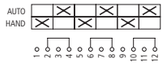
Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

Moeller HPL0211-2004/2005

Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
Changeover switches																		
With black thumb-grip and front plate																		
	 FS 429	1	**T0-1-15421/...**	**E** 095806		1 off	**EZ** 098179		1 off	**I1** 207069		1 off	**IVS** 012752		1 off	**Z** 015125		1 off
		2	**T0-2-15422/...**	**E** 019871			**EZ** 022244			**I1** 207090			**IVS** 026990			**Z** 029363		
		3	**T0-3-15423/...**	**E** 034109			**EZ** 036482			**I1** 207114			**IVS** 041228			**Z** 043601		
Hand/Auto switches																		
Front IP65																		
With 0 (Off) position																		
	 FS 1401	1	**T0-1-15431/...**	**E** 019872		1 off	**EZ** 022245		1 off	**I1** 207070		1 off	**IVS** 026991		1 off	**Z** 029364		1 off
		2	**T0-2-15432/...**	**E** 034110			**EZ** 036483			**I1** 207091			**IVS** 041229			**Z** 043602		
		3	**T0-3-15433/...**	**E** 048348			**EZ** 050721			**I1** 207115			**IVS** 055467			**Z** 057840		
With spring-return from HAND																		
	 FS 1414000	1	**T0-1-15434/...**	**E** 062586		1 off	**EZ** 018053		1 off	**I1** 207071		1 off	**IVS** 069705		1 off	**Z** 072078		1 off
		2	**T0-2-15435/...**	**E** 003191		1 off	**EZ** 003192		1 off	**I1** 218971		1 off	**IVS** 003195		1 off	**Z** 003196		1 off
With spring-return from START																		
	 FS 1413890	1	**T0-2-15907/...**	**E** 066931		1 off	**EZ** 069304		1 off	**I1** 207095		1 off	**IVS** 076423		1 off	**Z** 078796		1 off
Without 0 (Off) position																		
	 FS 19334	1	**T0-1-15451/...**	**E** 076824		1 off	**EZ** 079197		1 off	**I1** 207072		1 off	**IVS** 083943		1 off	**Z** 086316		1 off
		2	**T0-2-15452/...**	**E** 091062			**EZ** 093435			**I1** 207092			**IVS** 098181			**Z** 010381		
		3	**T0-3-15453/...**	**E** 015127			**EZ** 017500			**I1** 207116			**IVS** 022246			**Z** 024619		

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

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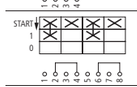
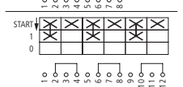
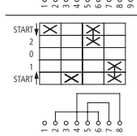
Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
On switches (make contact)																		
With black thumb-grip and front plate Spring-return from position 1																		
	 FS 4721	1	**T0-1-15321/...**	**E** 086317		1 off	**EZ** 088690		1 off	**I1** 207064		1 off	**IVS** 093436		1 off	**Z** 095809		1 off
		2	**T0-1-15322/...**	**E** 010382			**EZ** 012755			**I1** 207065			**IVS** 017501			**Z** 019874		
		3	**T0-2-15323/...**	**E** 024620			**EZ** 026993			**I1** 207087			**IVS** 031739			**Z** 034112		
On-Off switches																		
With black thumb-grip and front plate Spring-return from positions 0 and 1																		
	 FS 456	1	**T0-1-15366/...**	**E** 081572		1 off	**EZ** 083945		1 off	**I1** 207066		1 off	**IVS** 088691		1 off	**Z** 091064		1 off
On-Off switches																		
With black thumb-grip and front plate Spring-return from position START																		
	 FS 147767	1	**T0-1-15511/...**	**E** 019875		1 off	**EZ** 022248		1 off	**I1** 207073		1 off	**IVS** 026994		1 off	**Z** 029367		1 off
		2	**T0-2-15512/...**	**E** 034113			**EZ** 036486			**I1** 207093			**IVS** 041232			**Z** 043605		
		3	**T0-3-15513/...**	**E** 048351			**EZ** 050724			**I1** 207117			**IVS** 055470			**Z** 057843		
	 FS 140660	see K 115	**T0-2-8177/...**	**E** 015130			**EZ** 017503			**I1** 207101			**IVS** 022249			**Z** 024622		

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

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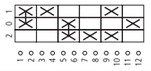
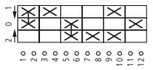
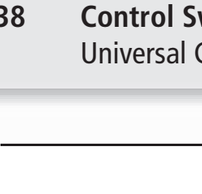
Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
Universal control switches																		
With black thumb-grip and front plate																		
Stay-put switches with 3 positions 1 contact closed in each position In addition, 1 contact closed in positions 0 and 1 In addition, 1 contact closed in positions 0 and 2 In addition, 1 contact closed in positions 1 and 2																		
	 FS 429	–	**T0-3-15391/...**	**E** 029365		1 off	**EZ** 031738		1 off	**I1** 207112		1 off	**IVS** 036484		1 off	**Z** 038857		1 off
Spring-return from positions 1 and 2 With black thumb-grip and front plate																		
	 FS 458	–	**T0-3-15394/...**	**E** 072079		1 off	**EZ** 074452		1 off	**I1** 207113		1 off	**IVS** 079198		1 off	**Z** 081571		1 off
Coding switches																		
With black thumb-grip and front plate																		
With complete rotation in both directions																		
	 FS 312	Dual BCD code	**T0-4-15602/...**	**E** 029368		1 off	**EZ** 031741		1 off	**I1** 207134		1 off	**IVS** 036487		1 off	**Z** 038860		1 off
Series switches																		
With black thumb-grip and front plate With 0 (Off) position (heater switches)																		
	 FS 614	1	**T0-1-91/...**	**E** 072082		1 off	**EZ** 074455		1 off	**I1** 207080		1 off	**IVS** 079201		1 off	**Z** 081574		1 off

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

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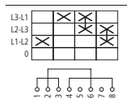
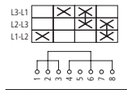
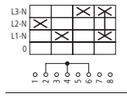
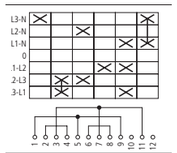
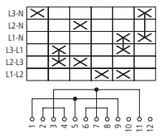
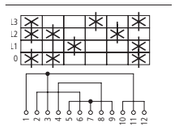
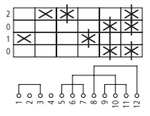
Contact sequence	Front plate no.	No. of poles	Basic type, insert mounting form identifier	Flush mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Centre mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack	Surface mounting IP65 totally insulated Mounting form type Article no.	Price See Price List	Std. pack	Service distribution board mounting Front IP 30 Mounting form type Article no.	Price See Price List	Std. pack	Rear mounting Front IP65 Mounting form type Article no.	Price See Price List	Std. pack
Voltmeter selector switches																		
With black thumb-grip and front plate																		
	 FS 1410755	3 × phase to phase with 0 (Off) position	**T0-2-15920/...**	**E** 038861		1 off	**EZ** 041234		1 off	**I1** 207098		1 off	**IVS** 029452		1 off	**Z** 048353		1 off
	 FS 164854	3 × phase to phase without 0 (Off) position	**T0-2-15922/...**	**E** 053099			**EZ** 055472			**I1** 207100			**IVS** 060218			**Z** 062591		
	 FS 1410757	3 × phase to N with 0 (Off) position	**T0-2-15921/...**	**E** 067337			**EZ** 069710			**I1** 207099			**IVS** 074456			**Z** 076829		
	 FS 1410759	3 × phase to phase + 3 × phase to N with 0 (Off) position	**T0-3-8007/...**	**E** 095813			**EZ** 098186			**I1** 207120			**IVS** 012759			**Z** 015132		
	 FS 164721	3 × phase to phase + 3 × phase to N without 0 (Off) position With complete rotation in both directions	**T0-3-15924/...**	**E** 019878			**EZ** 022251			**I1** 207119			**IVS** 026997			**Z** 029370		
Ammeter selector switches																		
With black thumb-grip and front plate With complete rotation in both directions Measurement via current transformers																		
	 FS 9440	With 0 (Off) position	**T0-3-8048/...**	**E** 034116		1 off	**EZ** 036489		1 off	**I1** 207122		1 off	**IVS** 041235		1 off	**Z** 043608		1 off
Voltmeter and ammeter selector switches																		
With black thumb-grip and front plate With complete rotation in both directions Measurement via current transformers (For other circuits → catalogue K115)																		
	 FS 928	With 0 (Off) position	**T0-3-8030/...**	**E** 013401		1 off	**EZ** 013402		1 off	**I1** 207121		1 off	**IVS** 013404		1 off	**Z** 013406		1 off

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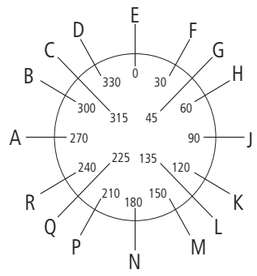
Rotary Switches, Switch-Disconnectors

Contact sequence	Front plate no.	No. of poles	Max. three-phase motor rating AC-23A 400/415 V 50-60 Hz P kW	Rated uninterrupted current I_u A		Flush mounting IP65 Type Article no.	Price See Price List	Std. pack	Surface mounting IP65 totally insulated Type Article no.	Price See Price List	Std. pack	Rear mounting IP65 Type Article no.	Price See Price List	Std. pack	Notes
Switches with locking arrangements, KMS1 lock mechanism															
Panic switches with Emergency-Stop function, with SVA cylinder lock Key withdrawable in positions 0 and 1. When the key is witdrawn in position 1, the switch can still be switched Off, but cannot be switched back On again without the key.															
0 – 1 1 0 2 0 3 0 4 0 5 0 6 0	ON OFF FS 908	3	6.5	20		**T0-2-1/E/SVA(S)** 050977		1 off	**T0-2-1/I1/SVA(S)** 207084		1 off				
		3	13	25		**P1-25/E/SVA(S)** 050966			**P1-25/I2/SVA(S)** 207305						
		3	15	32		**P1-32/E/SVA(S)** 044977			**P1-32/I2/SVA(S)** 207326						
		3	13	32		**T3-2-1/E/SVA(S)** 050983			**T3-2-1/I2/SVA(S)** 207173						
On-Off switch without Emergency-Stop function, with SVA cylinder lock With black thumb-grip and front plate Key withdrawable in position 0 only (Pos. A)															
0 – 1 1 0 2 0 3 0 4 0 5 0 6 0	ON OFF FS 908	3	6.5	20		**T0-2-1/E/SVA(A)** 050976		1 off	**T0-2-1/I1/SVA(A)** 207083		1 off	**T0-2-1/Z/SVA(A)** 050978		1 off	
		3	13	25		**P1-25/E/SVA(A)** 050965			**P1-25/I2/SVA(A)** 207304			**P1-25/Z/SVA(A)** 050969			
		3	15	32		**P1-32/E/SVA(A)** 050970			**P1-32/I2/SVA(A)** 207325			**P1-32/Z/SVA(A)** 050973			
		3	13	32		**T3-2-1/E/SVA(A)** 050982			**T3-2-1/I2/SVA(A)** 207172			**T3-2-1/Z/SVA(A)** 050984			
Panic switches with Emergency-Stop function, with SVA cylinder lock To IEC/EN 60 204-1, VDE 0113 Part 1: with red thumb-grip and yellow front plate Key withdrawable in positions 0 and 1. When the key is witdrawn in position 1, the switch can still be switched Off, but cannot be switched back On again without the key.															
0 – 1 1 0 2 0 3 0 4 0 5 0 6 0	0 1 FS 908 GE	3	6.5	20		**T0-2-1/E/SVA(S)-RT** 228291		1 off	**T0-2-1/I1/SVA(S)-RT** 207085		1 off				
		3	13	25		**P1-25/E/SVA(S)-RT** 050967			**P1-25/I2/SVA(S)-RT** 207306						
		3	15	32		**P1-32/E/SVA(S)-RT** 050971			**P1-32/I2/SVA(S)-RT** 207327						
		3	13	32		**T3-2-1/E/SVA(S)-RT** 044972			**T3-2-1/I2/SVA(S)-RT** 207174						
Panic switches with Emergency-Stop function, with SVC padlocking facility To IEC/EN 60 204-1, VDE 0113 Part 1: with red thumb-grip and yellow front plate Locking slide can be padlocked in positions 0 and 1. When the locking slide is padlocked in position 1, the switch can still be switched Off, but cannot be switched back On again without first removing the padlock. Lockable using up to 3 padlocks.															
0 – 1 1 0 2 0 3 0 4 0 5 0 6 0	0 1 FS 908 GE	3	6.5	20		**T0-2-1/E/SVC(S)-RT** 044973		1 off	**T0-2-1/I1/SVC(S)-RT** 207086		1 off				
		3	13	25		**P1-25/E/SVC(S)-RT** 044974			**P1-25/I2/SVC(S)-RT** 207307						
		3	15	32		**P1-32/E/SVC(S)-RT** 044975			**P1-32/I2/SVC(S)RT** 207328						
		3	13	32		**T3-2-1/E/SVC(S)-RT** 044976			**T3-2-1/I2/SVC(S)-RT** 207175						
On-Off switch without Emergency-Stop function, with S-T0 key operation, IP53 With black thumb-grip and front plate Key withdrawable in position 0 only (Pos. A)															
0 – 1 1 0 2 0 3 0 4 0	ON OFF FS 908	2	6.5	20		**T0-1-102/EZ/S** 014933		1 off	**T0-1-102/I1/S** 207063		1 off	**T0-1-102/Z/S** 014971		1 off	



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

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Rotary Switches, Switch-Disconnectors

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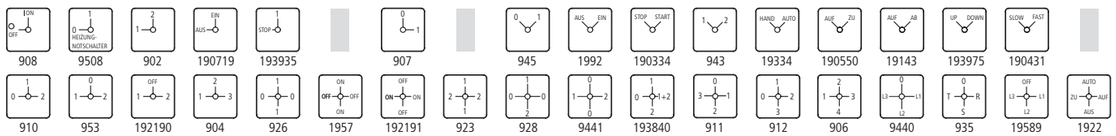
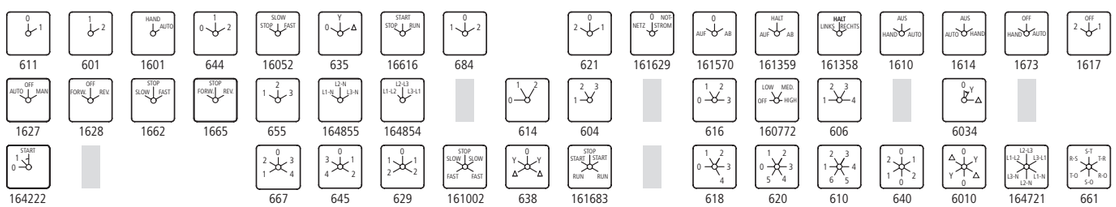
Switch size	Dimensions (W × H × D) mm	Standard front plates Can be laser inscribed Type Article no.	Price See Price List	Std. pack	Emergency-Stop front plates Type Article no.	Price See Price List	Std. pack	Blank plates Can be engraved Type Article no.	Price See Price List	Std. pack	Non-standard front plates Type Article no.	Price See Price List	Std. pack
Front plates													
P3, T5, T5B	84 × 84 (for frame size 88 × 88)	**FS(*)-P3** 231895		10 off	**FS908GE-P3** 031475		5 off	**FS-ALU980-P3** 266906		10 off	**FS-SOND-ERSTBESTELLUNG-P3** 225356		1 off
T0, T3, P1	45 × 45 (for frame size 48 × 48)	**FS(*)-T0** 231893		10 off	**FS908GE-T0** 003198		5 off	**FS-ALU980-T0** 266905		50 off	**FS-SOND-ERSTBESTELLUNG-T0** 225355		1 off
TM	29 × 29 (for frame size 30 × 30)							**FS980-TM-EZ** 073811		50 off	**TM/EZ-FRONTSCHILD-NR(*)** 239022		5 off
TM	29 × 29 (for frame size 30 × 30)							**FS980-TM-E** 071438		10 off	**TM/E-FRONTSCHILD-NR(*)** 239021		5 off

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

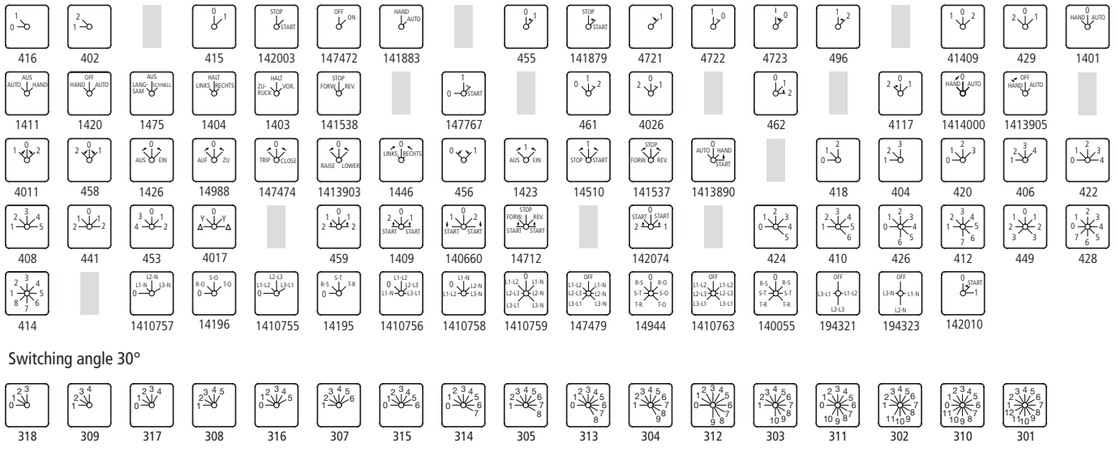
Switching angle 90°



Switching angle 60°



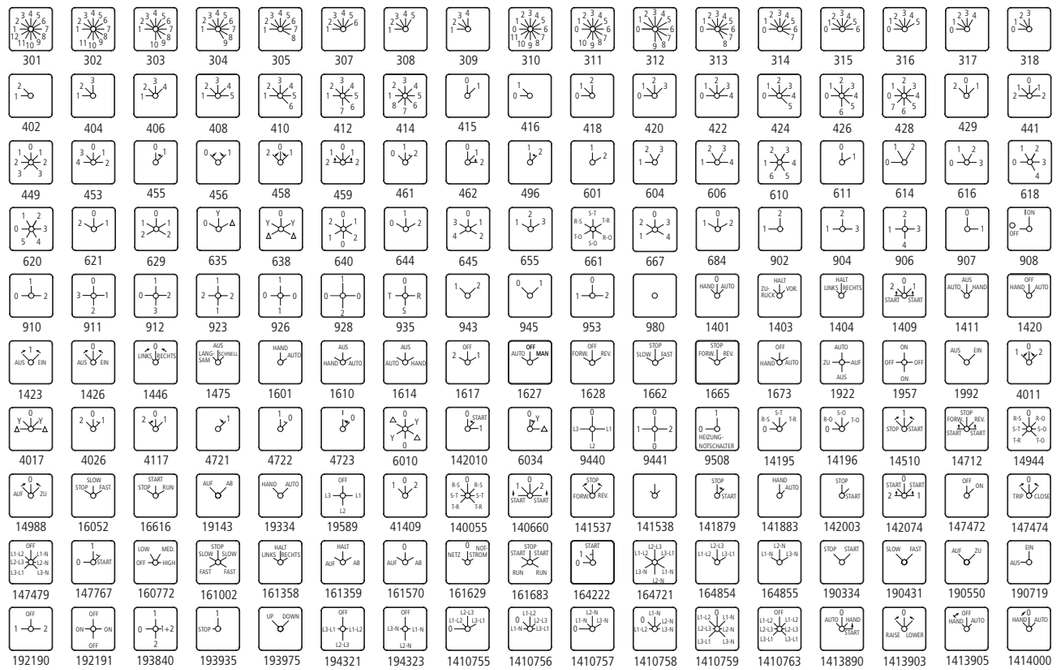
Switching angle 45°



Switching angle 30°

Non-standard front plates
Inscription to order (note maximum number of characters per field). First order via the "Ordering of Special Front Plates" form. 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 subsequent orders use FS(*)-T0(P3)

Standard front plates arranged in their numerical sequence:



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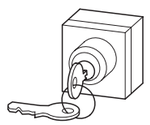
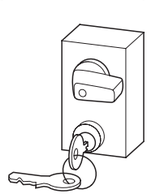
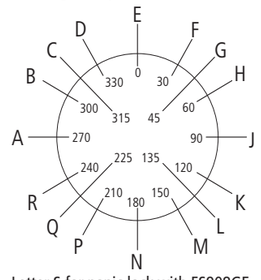
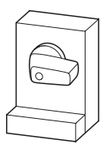
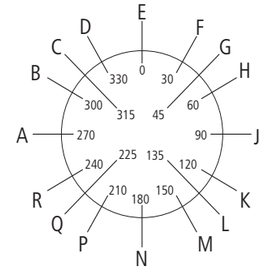
	For use with	Key withdrawal/ locking option	Type Article no.	Price	Std. pack	Notes
S-T0 key operation , Front IP53						
With two keys						
Key withdrawable in all positions						
 KMS1 lock mechanism: individual lock mechanism, not suitable for master key systems	T0-.../E, .../I1, .../Z up to 6 contact units T3-.../E, .../I2, .../Z up to 5 contact units P1-.../E, .../I2, .../Z	Key withdrawal positions can be programmed by user	**S-T0** 086709		1 off	The key replaces the thumb-grip, switching is not possible without key. The switch position indicator is on the lock. In standard applications, the key can be withdrawn in any position. On rotary switches ordered with FS908 front plate and key operation (as + Type), the key is withdrawable in the 0 (Off) position only. New positions for key withdrawal can be selected (even retrospectively, by fitting VR-TO locking cams. When retrofitting the S-TO key operation, use the front plate of the switch. Keys → 7/52
KMS2 – 10 lock mechanisms, KMS201 – 400 lock mechanisms: individual lock mechanisms, not suitable for master key systems			**S-SOND-KMS(*)-T0** 231957		1 off	
Key can be withdrawn in positions as specified						
KMS1 lock mechanism: switches with FS908 are suitable as main switches: T0-1-... to T0-4-.../I1, .../E; T3-1-... to T3-5-.../I2; T3-1-... to T3-6-.../E; P1-.../I2, .../E	T0-.../E, .../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 as ordered	**S(*)-T0** 231959		1 off	
KMS2 – 10 lock mechanisms, KMS201 – 400 lock mechanisms: individual lock mechanisms, not suitable for master key systems			**S(*)-SOND-KMS(*)-T0** 231961			
SA(...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan showing the full **configuration of the envisaged lock system**. For subsequent part orders, simply state the item number within the lock plan, e.g. (A6294-1/2).			**S(*)-SOND-SA(*)-T0** 231965			
SVA-T3 cylinder lock, front IP65						
With two keys						
Key withdrawable in all positions						
 KMS1 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 can be programmed by user	**SVA-T3** 050974		1 off	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 S-T0, use the front plate of the switch. Individual positions or ranges can be locked (also with VR-T3 fitted by the user). The key cannot be withdrawn in positions that are not lockable. When ranges are locked, switching without the key is possible only within a locked range. The lockable positions or ranges are shown; use the code letters to state your selection on the order: Example 1: SVA(A)-T3 = Only position A withdrawn Example 2: SVA(A, E)-T3 = Positions A and E withdrawn Example 3: SVA(A-J)-T3 = Range A to J withdrawn Example 4: SVA(S)-T3 = Main switches, for use as Emergency-Stop devices to IEC/EN 60204-1, VDE 0113 Part 1: with red thumb-grip and yellow front plate as panic lock version, lockable in positions A and E; switching is still possble from E to A, but not from A to E.	When retrofitting the SVA-T3, use the front plate of the switch. With letter S for panic lock, use FS908GE. Ordering example: P1-25/I2-RT+SVA(S)-T3  Letter S for panic lock with FS908GE Ordering example: SVA(A-G)-SOND-SA(A6294-1/2)-T3
KMS2 – 10 lock mechanisms, KMS201 – 400 lock mechanisms: individual lock mechanisms, not suitable for master key systems			**SVA-SOND-KMS(*)-T3** 231967		1 off	
Key can be withdrawn in positions as specified						
KMS1 lock mechanism: switches with FS908 are suitable as main switches: T0-1-... to T0-4-.../I1, .../E; T3-1-... to T3-5-.../I2; T3-1-... to T3-6-.../E; P1-.../I2, .../E	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z	Key withdrawal positions are programmed ex-works as ordered	**SVA(*)-T3** 907745		1 off	
KMS2 – 10 lock mechanisms, KMS201 – 400 lock mechanisms: individual lock mechanisms, not suitable for master key systems			**SVA(*)-SOND-KMS(*)-T3** 231969			
SA(...) = Master key system (with master key) supplied with a security certificate. Order must include a lock plan showing the full **configuration of the envisaged lock system**. For subsequent part orders, simply state the item number within the lock plan, e.g. (A6294-1/2).			**SVA(*)-SOND-SA(*)-T3** 231971			
SVC-T3 padlocking feature, front IP65						
In the depressed, locked position, the locking slide is lockable using up to 3 padlocks.						
 All positions are lockable	T0-.../E, .../I1, .../Z T3-.../E, .../I2, .../Z P1-.../E, .../I2, .../Z	Key withdrawal positions can be programmed by user	**SVC-T3** 050975		1 off	Switching is carried out using the thumb-grip. Interlocking is carried out by depressing an actuator that can be locked in position by using up to 3 padlocks. In standard applications, all positions are lockable. With type reference SVC(...)-T3, only the specified positions or ranges are lockable. When ranges are locked, switching is possible only within a locked range, unless the padlock is removed first. The lockable positions or ranges are shown below. Diagram → Notes for SVA(...)-T3 When retrofitting the SVA-T3, use the front plate of the switch. With letter S for panic lock, use FS908GE.	Ordering example: P1-25/I2-RT+SVC(S)-T3 
Specified positions or ranges are lockable	Switches with FS908 can be used as main switches for: T0-1-... to T0-4-.../I1, .../E T3-1-... to T3-5-.../I2 T3-1-... to T3-6-.../E P1-.../I2, .../E	Key withdrawal positions are programmed ex-works as ordered	**SVC(*)-T3** 907748		1 off	

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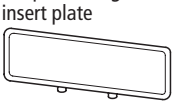
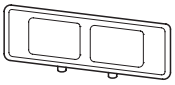
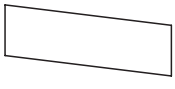
For use with	For T0, T3, P1 rotary switches Type Article no.	Price	Std. pack	For T5(B), P3 switch-disconnectors Type Article no.	Price	Std. pack
Add-on front plates, clip-on, complete						
For padlocking features, consisting of label mount and insert plate 						
Engraved with standard text Main switch - "Open only in the Off position" Front plates supplied with: Main switches for flush mounting: T.../EA/SVB, P.../EA/SVB Main switches for rear mounting: T.../V/SVB, P.../V/SVB						
P3-.../E, .../Z, .../EA, .../V 61/62 = German /English	**ZFS61/62-T0** 030170		25 off	**ZFS61/62-P3** 065739		25 off
63 = French	**ZFS63-T0** 047424			**ZFS63-P3** 047423		
64 = Bulgarian	**ZFS64-T0** 205535			**ZFS64-P3** 205552		
65 = Danish	**ZFS65-T0** 205536			**ZFS65-P3** 205553		
66 = Finnish	**ZFS66-T0** 205537			**ZFS66-P3** 205554		
67 = Dutch	**ZFS67-T0** 065750			**ZFS67-P3** 065753		
68 = Italian	**ZFS68-T0** 065751			**ZFS68-P3** 065754		
69 = Greek	**ZFS69-T0** 205538			**ZFS69-P3** 205555		
70 = Norwegian	**ZFS70-T0** 205539			**ZFS70-P3** 205556		
71 = Polish	**ZFS71-T0** 205540			**ZFS71-P3** 205557		
72 = Portuguese	**ZFS72-T0** 205541			**ZFS72-P3** 205558		
73 = Romanian	**ZFS73-T0** 205542			**ZFS73-P3** 205559		
74 = Russian	**ZFS74-T0** 205543			**ZFS74-P3** 205560		
75 = Swedish	**ZFS75-T0** 205544			**ZFS75-P3** 205561		
76 = Serbo-Croat	**ZFS76-T0** 205545			**ZFS76-P3** 205562		
77 = Spanish	**ZFS77-T0** 065752			**ZFS77-P3** 047422		
78 = Czech	**ZFS78-T0** 205546			**ZFS78-P3** 205563		
79 = Turkish	**ZFS79-T0** 205547			**ZFS79-P3** 205564		
80 = Hungarian	**ZFS80-T0** 205548			**ZFS80-P3** 205565		
81 = Afrikaans	**ZFS81-T0** 205549			**ZFS81-P3** 205566		
Blank, can be engraved						
	ZFS60-T0 019924		25 off	**ZFS60-P3** 022297		25 off
Label mount black, clip-on						
	**ZFSX-T0** 024670		25 off	**ZFSX-P3** 027043		25 off
Insert plates						
	**BS45X14-T0** 029416		25 off	**BS84X24-P3** 031789		25 off

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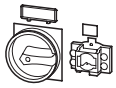
		For use with	Type Article no.	Price	Std. pack	Notes
Main switch assembly kits						
Padlocking feature, exclusively for main switches Admissible on T0 up to 4 contact units Admissible on T3 up to 6 contact units						
	For use as Emergency-Stop devices to IEC/EN 60204-1, VDE 0113 Part 1, with red rotary handle and yellow locking collar	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	**SVB-T0** 057892		1 off	• For locking the 0ff position • For switches with positions 0 – I at 90° • Switching angle, as front plate: FS908 • Lockable in the 0 (Off) position
		T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	**SVB-P3** 052999		1 off	
	Without Emergency-Stop function, black handle, black locking collar	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	**SVB-SW-T0** 060265		1 off	• For locking the 0ff position • For locking the On position if required • Lockable using up to 3 padlocks • Padlocks with KMS lock mechanisms can be obtained at C.E. Schulte (CES), Velbert, Type 219/38 (KMS...) or from local hardware stores
		T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	**SVB-SW-P3** 062491		1 off	
Main switch assembly kits with PE terminal and N terminal						
Padlocking feature, exclusively for main switches Admissible on T0 up to 4 contact units Admissible on T3 up to 6 contact units						
	For use as Emergency-Stop devices to IEC/EN 60204-1, VDE 0113 Part 1, with red rotary handle and yellow locking collar	T0-.../E, .../Z T3-.../E, .../Z	**V/EA/SVB-T0** 062638		1 off	• For conversion of T.../E flush mounting switches (with front plate FS908) into T.../EA/SVB... flush mounting main switches • For conversion of T.../Z rear mounting switches (with front plate FS908) into interlocked T.../V/SVB rear mounting main switches
		T5(B)-.../E, .../Z	**V/EA/SVB-T5** 045065		1 off	
	Without Emergency-Stop function, black handle, black locking collar	T0-.../E, .../Z T3-.../E, .../Z	**V/EA/SVB-SW-T0** 065011		1 off	–
		T5(B)-.../E, .../Z	**V/EA/SVB-SW-T5** 045064		1 off	–
Thumb-grips						
	Black	–	**KNB-T0** 038909		10 off	–
	Red, only for Emergency-Stop switches to IEC/EN 60204-1, VDE 0113 Part 1	–	**KNB-RT-T0** 043655		10 off	• Order additional yellow front plate FS908GE-T0
	Black	–	**KNB-P3** 041282		10 off	–
	Red, only for Emergency-Stop switches to IEC/EN 60204-1, VDE 0113 Part 1	–	**KNB-RT-P3** 046028		10 off	• Order additional yellow front plate FS908GE-T0
Maintenance key for interlocked main switches						
	For T0	–	**KNK-T0** 000650		5 off	Special devices for electricians, to allow them to switch interlocked main switches On and Off, when the panel door is open for maintenance purposes (to IEC/EN 60204-1, Clause 5.1.1.1)
	For P3	–	**KNK-P3** 000649		5 off	

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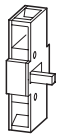
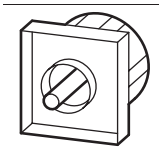
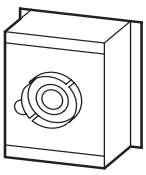
		For use with	Type Article no.	Price	Std. pack
Neutral conductor					
Early make and late break The neutral contact is always early make and late break. Switching capacity of N-P1(P3)... equivalent to P1(P3)-...					
	For side mounting, left or right	P1-.../E, .../EA, .../EZ	**N-P1E** 000651		5 off
	With P1-.../I2: N-P1Z or HI11-P1/P3Z can be fitted to left only	P1-.../Z, .../V, .../I2, .../IVS	**N-P1Z** 000652		
		P3-.../E, .../EA...	**N-P3E** 062432		
		P3-.../Z, .../V, .../IVS P3-63/E,.../Z,/I4 P3-100/E, .../Z, .../I5	**N-P3Z** 064805		
Neutral terminal					
	Front fitting, right-hand side Service distribution board mounting, left-hand side	P5-125(160)/E(EA)	**N-P5-125/160E** 280969		1 off
		P5-125(160)/Z(V)	**N-P5-125/160Z** 280970		
		P5-250(315)/E(EA)	**N-P5-250/315E** 280971		
		P5-250(315)/Z(V)	**N-P5-250/315Z** 280972		
Earth terminal					
	Front fitting, right-hand side Service distribution board mounting, left-hand side	P5-125(160)/E(EA)	**PE-P5-125/160E** 280973		1 off
		P5-125(160)/Z(V)	**PE-P5-125/160Z** 280974		
		P5-250(315)/E(EA)	**PE-P5-250/315E** 280975		
		P5-250(315)/Z(V)	**PE-P5-250/315Z** 280976		
Auxiliary contacts					
1 make contact, 1 break contact The neutral contact is always early make and late break. The make contact is always connected as a load-shedding contact.					
	For side mounting, left and/or right	P1-.../E, .../EA..., .../EZ P3-.../E, .../EA	**HI11-P1/P3E** 061813		5 off
	With P1-.../I2: HI11-P1/P3Z or N-P1Z can be fitted to left only	P1-.../Z, .../V, .../I2, .../IVS P3-63/Z, .../V, .../I4, .../IVS P3-100/Z, .../V, .../I5, .../IVS	**HI11-P1/P3Z** 062031		
2 make contacts 1 break contact					
	For side mounting, left or right	P5-125(160)/E(EA)	**HI21-P5-125/160E** 280963		1 off
		P5-125(160)/Z(V)	**HI21-P5-125/160Z** 280964		
		P5-250(315)/E(EA)	**HI21-P5-250/315E** 280965		
		P5-250(315)/Z(V)	**HI21-P5-250/315Z** 280966		
Centre mounting accessories					
For single-hole fitting Mounting diameter: 22.3 mm					
	For rotary switches with existing front plate Quick mounting by snap fixing	T0-.../E T3-.../E	**EZ-T0** 081622		1 off
	Mounting diameter 22.3 mm and 30.5 mm, Can be fitted by one operator by screw fixing	T0-.../E T3-.../E P1-.../E	**EZ-P1** 091455		5 off
Service distribution board mounting accessories					
Includes push-fit shaft					
	For retrofitting as T0-.../IVS service distribution board mounting. Use the front plate of the basic switch.	T0-.../XZ	**IVS-T0** 091114		1 off

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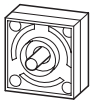
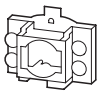
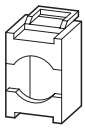
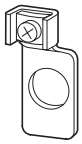
		For use with	Type suffix/Type Article no. when ordered with basic unit/when ordered separately	**Price** See Price List	Std. pack	**Notes**
Coupling drive						
Includes push-fit shaft						
	For retrofitting T0(T3)-.../XZ basic switches in rear mounting form Spare part for T0(T3)/(P1)-.../Z	–	**DE-T0** 093487		1 off	–
	For conversion of T5(B)-.../E flush mounting switches to rear mounting switches Spare part for T5(B)/(P3)-...Z	–	**DE-P3** 093972		3 off	–
Interlock sections						
With PE- and N conductor connection Fits on the reverse of flush mounting switches, with interlocking function for rear mounting switches.						
	–	T0-.../E, ...EZ, ...Z T3-.../E, ...EZ, ...Z P1-.../E, ...EZ, ...Z	**UV-T0** 019925		1 off	Fits on the reverse of flush mounting switches
	–	T5(B)-.../E, ...Z P3-.../E, ...Z	**UV-P3** 048289			With interlocking function for rear mounting switches
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)						
	Use ZVV-T0 only with T0/T3-.../Z and P1-.../Z	UV-T0	**ZVV-T0** 022298		10 off	Use ZVV-T0 only with T0/T3-.../Z and P1-.../Z
	Use ZVV-P3 only with T5(B)-.../Z and P3-.../Z	UV-P3	**ZVV-P3** 024671			Use ZVV-P3 only with T5(B)-.../Z and P3-.../Z
Shaft extensions						
Up to four off, 25 mm each, can be plugged onto switch shaft						
	–	T0-.../Z T3-.../Z P1-.../Z	**ZAV-T0** 027044		10 off	–
	–	T5(B)-.../Z P3-.../Z	**ZAV-P3** 029417			–
Shaft						
	Aluminium, length: 480 mm	P5-.../V... P5-.../Z	**ZAV-P5** 280979		1 off	–
Interlock extensions and shaft extensions, complete						
Can only be supplied in conjunction with a base unit						
	Extension up to 25 mm	–	**+ZAV(X1)+ZVV(X1)-T0/P3** 254546		1 off	–
	Extension up to 50 mm	–	**+ZAV(X2)+ZVV(X2)-T0/P3** 254547			–
	Extension up to 75 mm	–	**+ZAV(X3)+ZVV(X3)-T0/P3** 254548			–
	Extension up to 100 mm	–	**+ZAV(X4)+ZVV(X4)-T0/P3** 254549			–
Control circuit terminal						
	–	P5-125/160	**ST-P5-125/160** 280977		1 off	Terminal capacity • Solid or stranded: 4 mm² • Flexible with ferrule to DIN 46228: 4 mm²
	–	P5-250/315	**ST-P5-250/315** 280978			

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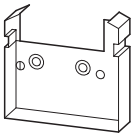
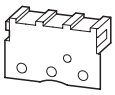
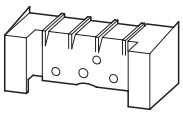
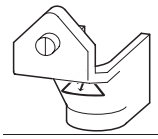
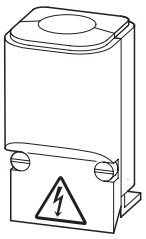
		For use with	Type Article no.	Price	Std. pack	Notes
Shrouds						
	For flush mounting switches with up to 4 contact units	T0-.../E T3-.../E	**H3-T0** 093828		1 off	Cable entries Quantity: 2 × ∅ 20 mm + 2 × ∅ 15 mm Cross-section: 5 × 6 mm² 5 × 2.5 mm²
	To cover terminals of up to 2 contact units	T5(B)-.../E, .../Z	**H1-T5** 045062			Can be used for input and/or output wiring, as required
–	Extension for H1-T5 cover to protect 3 – 8 contact units	H1-T5	**HZ-T5** 045063		10 off	1 × HZ-T5 required per contact unit
	To cover terminals of 3-pole switch-disconnectors	P1-.../E, .../EZ, .../Z, .../EA, .../V	**H-P1** 017253		5 off	Can be used for input and/or output wiring, as required
–	To cover terminals of 4-pole switch-disconnectors	P1-...N, ...HI11, ...N...HI11	**H-P14** 019626			Can be used for input and/or output wiring, as required
	To cover terminals of 3-pole open switch-disconnectors with N neutral conductor and/or HI11 auxiliary contact fitted	P3-.../E, .../Z, .../EA, .../V P3-...N, ...HI11, ...N...HI11	**H-P3** 021999			The shroud is designed for fitting on both sides of the switch-disconnector; parts that are not required can be broken off.
	Set of six, to protect the terminals	T6-160-6/...	**H-T6-160** 200183		1 off	–
–	Set of three, to protect the terminals	P5	**H-P5-125/160-3P** 280967			–
–	Set of four, to protect the terminals	P5	**H-P5-125/160-4P** 280968			–
	Set of six, to protect the terminals	T8-3-8342/...	**H-T8** 200184			–
Keys						
	For KMS1 individual lock mechanism	–	**ES-KMS1-T0** 231972		1 off	–
	For KMS2 – 10 or KMS201 – 400 individual lock mechanism	–	**ES-KMS(*)-T0** 231973			–
	Individual key, stainless steel, for master key systems and recorded individual lock mechanisms, state lock plan number and lock.	–	**HS-SA(*)-T0** 256151			Master keys must always be ordered separately. Please send or submit the security certificate with repeat orders. **Ordering example:** HS-SA(A6294-1/2)-T0

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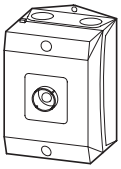
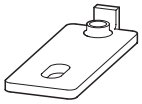
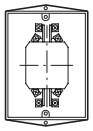
		For use with	Type Article no.	Price	Std. pack	Notes
Insulated enclosure, IP65, with stainless steel screws						
totally insulated						
With one additional terminal						
	1 – 2 contact units	T0-.../XZ	**CI-K1-T0-2** 207435		1 off	Cable sizes which can be pushed through the diaphragm Main current/control current: 12 mm/– 16 mm/8 mm 1 contact unit = 2 contacts
	3 – 4 contact units	T0-.../XZ	**CI-K1-T0-4** 207436			
	1 – 2 contact units	T3-.../XZ	**CI-K2-T3-2** 207437			
	3 – 4 contact units	T3-.../XZ	**CI-K2-T3-4** 225325			
	5 contact units	T3-.../Z	**CI-K2-T3-5** 207438			
	1 – 2 contact units	T5B-.../E	**CI-K4-T5B-2** 207439			
	3 – 4 contact units	T5B-.../Z	**CI-K4-T5B-4** 207440			
	1 – 2 contact units	T5-.../Z	**CI-K5-T5-2** 207441			Converts T5-.../Z into T5-.../I5 and T5B-.../E into T5B.../I4: Order AW-T5-... extension terminals in addition 1 contact unit = 2 contacts
	3 – 4 contact units	T5-.../Z	**CI-K5-T5-4** 207442			
Neutral terminals						
For connection of a 5th conductor						
	–	T0-.../I1, CI-K1-T0-... T3-.../I2, CI-K2-T3-... P1-.../I2	**K-CI-K1/2** 207451		20 off	–
	–	T5B-.../I4, CI-K4-T5B-... P3-.../I4	**K-CI-K4** 206916		20 off	–
	–	T5-.../I5, CI-K5-T5-... P3-.../I5	**K-CI-K5** 218488		1 off	–
Set of external fixing brackets						
	–	T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5,	**AB-CI-K4/5** 206914		1 off	For fixing CI-K4 and CI-K5 directly to the wall. One set comprises 4 brackets.
Set of extension terminals						
For retrofitting For cable connection in the enclosure						
	For the lowermost contact unit	T5B-.../I4 T5-.../I5	**AW-T5-1/2** 032601		10 off	Included with T5B-.../I4 and T5-.../I5 as standard.
	For the second contact unit from the bottom	T5-.../I5	**AW-T5-3/4** 032602		1 off	
Set of locking cams, consisting of 2 locking cams						
	For retrospectively changing the indexing positions in which the key can be withdrawn	S-T0 for all switching angles	**VR-T0** 089082		1 off	–
	For changing the locked positions/ranges	SVA-T3 SVC-T3	**VR-T3** 050987		1 off	–

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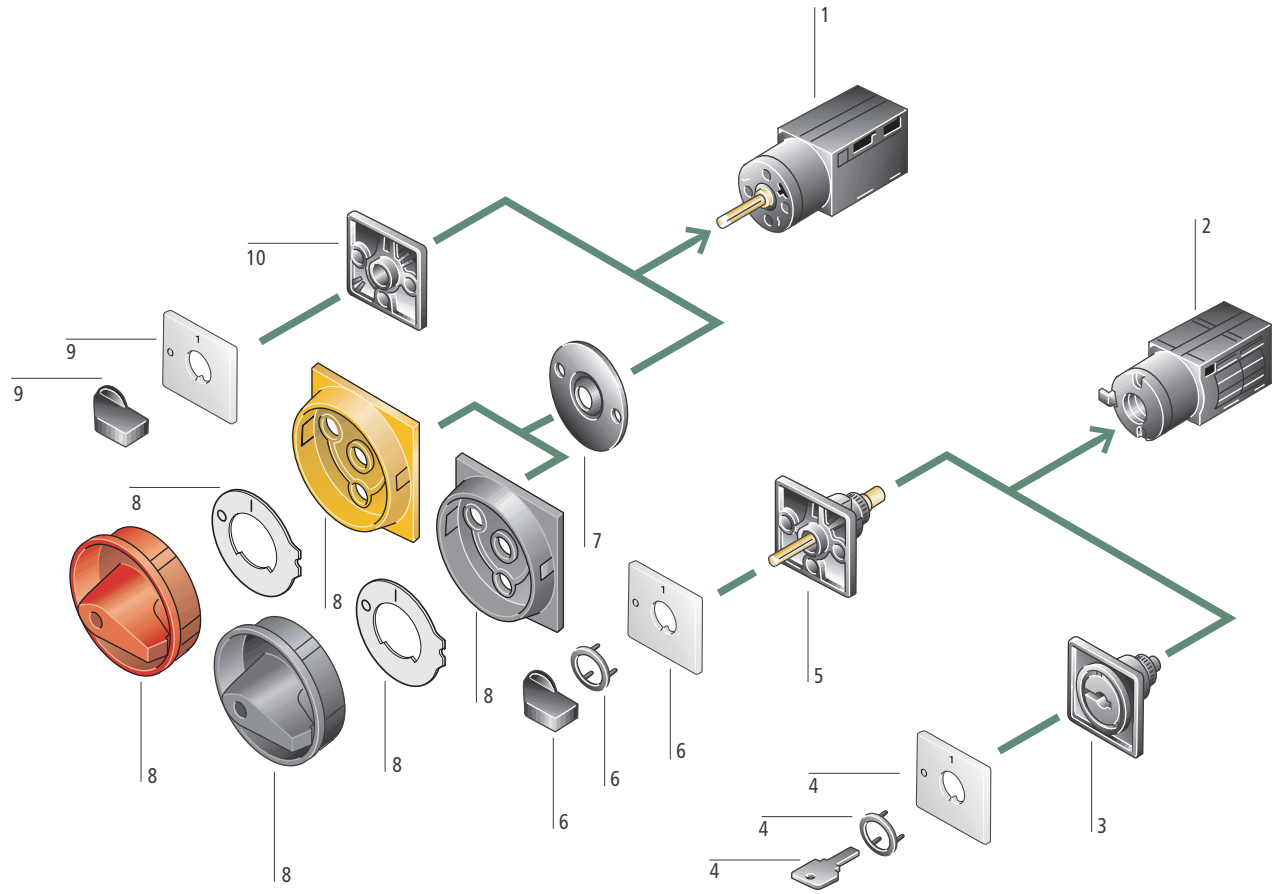
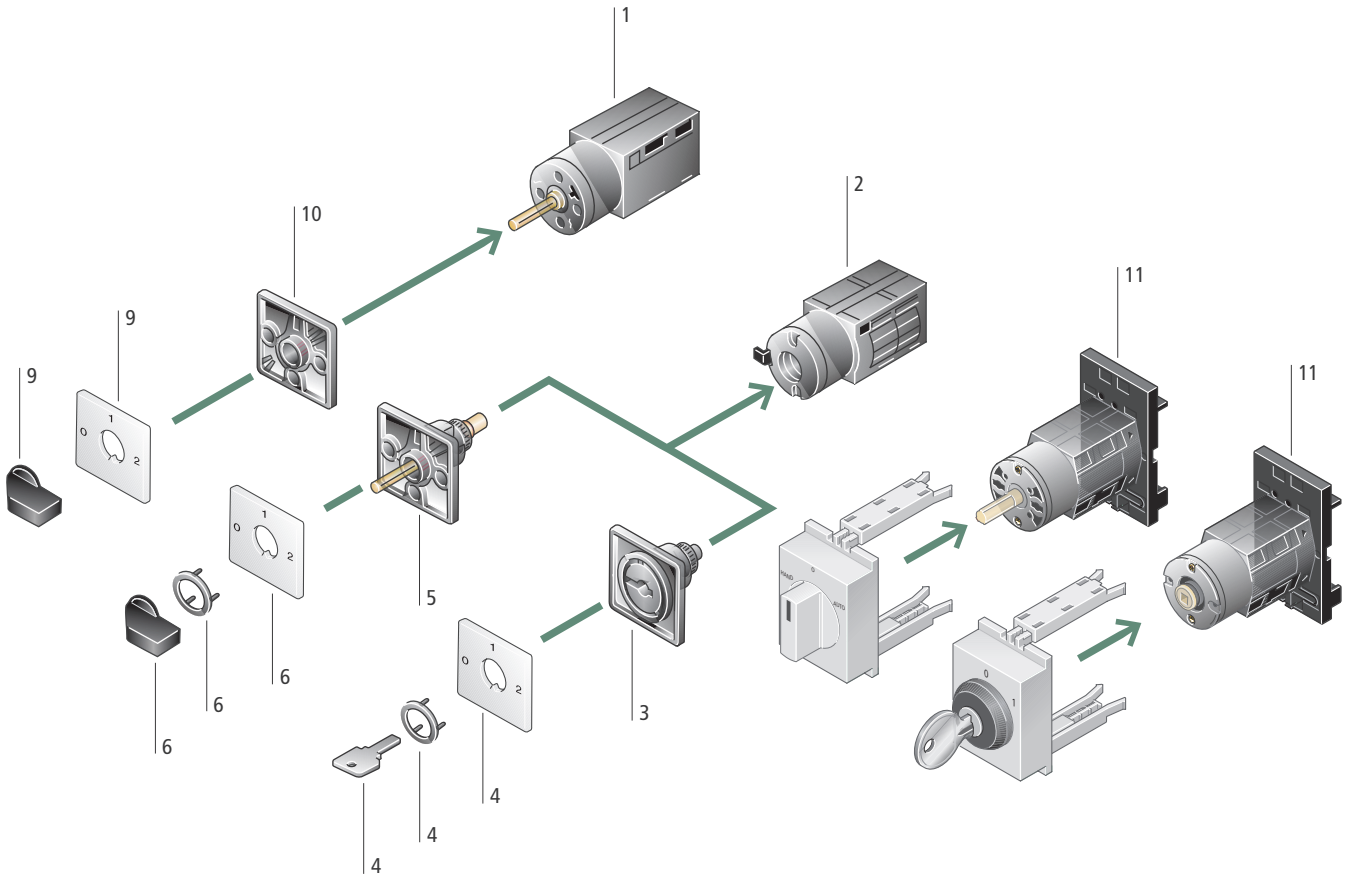
TM On-Off switches



TM control switches



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Flush mounting (.../E)	1
Front IP65	
Fitting from rear in panel sides, plates or doors	
Terminal: Pozidriv plus-minus screw	
Finger proof	
→ Page 7/56	

Flush mounting Control circuit isolators (.../E/SVB)	1
Front IP65	
To IEC/EN 60 947-5, VDE 0660	
Lockable in 0 (Off) position using 2 padlocks, 4 mm ∅ or 1 padlock, 6 mm ∅	
Can be used for up to 250 V AC per contact	
Up to 6 contacts admissible	
→ Page 7/56	

Centre mounting (.../EZ)	2
Front IP65	
Mounting in a standard 16.2 mm ∅ fixing hole or 22.3 mm ∅ to IEC/EN 60 947-5-1 after removal of the supplied adapter	
→ Page 7/56	

Key operation for centre mounting	3,4
Supplied with two keys	
Option for key withdrawal at 90° with KABA lock cylinder	
Option for key withdrawal at 60° with RONIS lock cylinder	
→ Page 7/83	

Standard centre mounting switches	5,6
Black thumb-grip	
→ Page 7/56	

Control circuit isolators	7,8
Red rotary handle and yellow locking collar	
Black rotary handle and locking collar	
Lockable in the 0 (Off) position	
→ Page 7/56	

Standard flush mounting switches	9,10
Black thumb-grip	
→ Page 7/56	

Standard switches for distribution board mounting (IVS)	11
Flush mounting in service distribution boards	
Mounting width: 2 space units (45 mm mounting depth)	
Up to 2 contact units	
→ Page 7/56	

Product features

Contact chamber

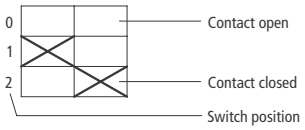
- Rated uninterrupted current: 10 A
- Gold-plated contacts for safe switching of extra low voltages and currents even in corrosive atmospheres
- Positively opening contacts
- 1 to 2 contacts per contact chamber, up to 16 contacts per switch
- For switching of unequal potentials
- Control circuit reliability

Contact sequences (examples)



Terminal markings

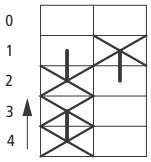
Link





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.

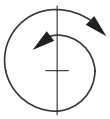


Switching from 2 to 3:
Contact 1 – 2 opens briefly.

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

Switch position

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





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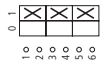
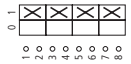
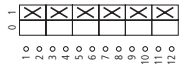
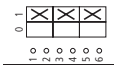
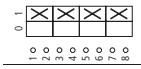
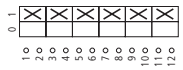
Contact sequence	Front plate no.	No. of poles	Flush mounting Front IP65 Type Article no.	Price	Centre mounting Front IP65 Type Article no.	Price	Service distribution board mounting Front IP30 Type Article no.	Price	Std. pack
Control circuit isolators, 90°									
With padlocking facility, Lockable in the 0ff position Up to 250 V AC per contact									
		1	**TM-1-8290/E/SVB** 045477						1 off
		1	**TM-1-8290/E/SVB-SW** 215351						
		2	**TM-1-8291/E/SVB** 045478						
		2	**TM-1-8291/E/SVB-SW** 215352						
		3	**TM-2-8292/E/SVB** 045484						
		3	**TM-2-8292/E/SVB-SW** 210955						
		3 + N	**TM-2-8293/E/SVB** 045485						
		3 + N	**TM-2-8293/E/SVB-SW** 215353						
		6	**TM-3-8326/E/SVB** 045498						
		6	**TM-3-8326/E/SVB-SW** 215354						
On-Off switches, 90°									
	 F 056	1	**TM-1-8290/E** 070131		**TM-1-8290/EZ** 000693		**TM-1-8290/IVS** 225334		1 off
		2	**TM-1-8291/E** 072504		**TM-1-8291/EZ** 015073		**TM-1-8291/IVS** 225335		
		3	**TM-2-8292/E** 074877		**TM-2-8292/EZ** 015096		**TM-2-8292/IVS** 225336		
		3 + N	**TM-2-8293/E** 077250		**TM-2-8293/EZ** 045486		**TM-2-8293/IVS** 225337		
		6	**TM-3-8326/E** 079623		**TM-3-8326/EZ** 045499				

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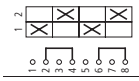
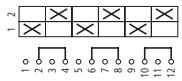
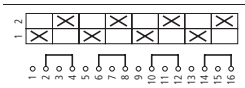
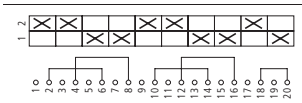
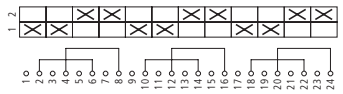
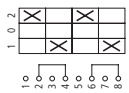
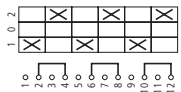
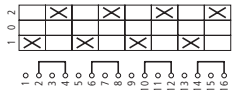
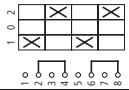
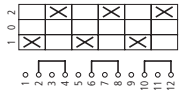
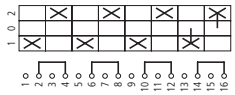
Contact sequence	Front plate no.	No. of poles	Flush mounting, Front IP65 — Type, Article no.	Price See Price	Centre mounting, Front IP65 — Type, Article no.	Price See Price	Service distribution board mounting, Front IP 30 — Type, Article no.	Price See Price	Std. pack
Changeover switches without 0 (Off) position, 60°									
	 F 072	1	**TM-1-8220/E** 081996		**TM-1-8220/EZ** 000692		**TM-1-8220/IVS** 225338		1 off
		2	**TM-2-8221/E** 084369		**TM-2-8221/EZ** 015197		**TM-2-8221/IVS** 225339		
		3	**TM-3-8222/E** 086742		**TM-3-8222/EZ** 045493				
		4	**TM-4-8223/E** 089115		**TM-4-8223/EZ** 046119				
		5	**TM-5-8369/E** 091488		**TM-5-8369/EZ** 046126				
		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		**TM-1-8210/IVS** 225340		1 off
		2	**TM-2-8211/E** 098607		**TM-2-8211/EZ** 015166		**TM-2-8211/IVS** 225341		
	 F 249	3	**TM-3-8212/E** 010807		**TM-3-8212/EZ** 045491				
		4	**TM-4-8213/E** 013180		**TM-4-8213/EZ** 045847				
Changeover switches with 0 (Off) position, 90°									
	 F 057	1	**TM-1-8218/E** 015553		**TM-1-8218/EZ** 045476				1 off
		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				

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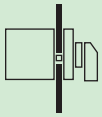
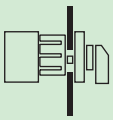
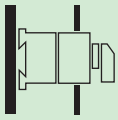
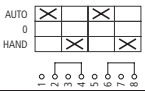
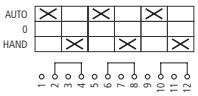
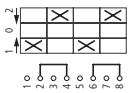
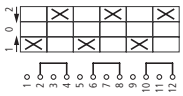
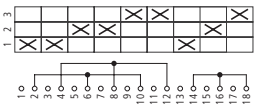
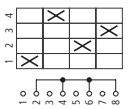
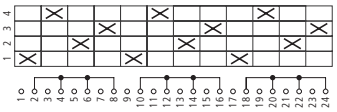
Contact sequence	Front plate no.	No. of poles	**Flush mounting** Front IP65  **Type** Article no.	Price	**Centre mounting** Front IP65  **Type** Article no.	Price	**Service distribution board mounting** Front IP 30  **Type** Article no.	Price	Std. pack
Hand-Auto switches, 60°									
	 F 288	1			**TM-1-8220F288/EZ** 016925				1 off
	 F 085	1	**TM-1-15431/E** 025045		**TM-1-15431/EZ** 000691		**TM-1-15431/IVS** 225342		
		2	**TM-2-15432/E** 027418		**TM-2-15432/EZ** 016878		**TM-2-15432/IVS** 225343		
		3	**TM-3-15433/E** 029791		**TM-3-15433/EZ** 045490				
Changeover switches with spring-return from both directions, 30°									
	 F 025	1	**TM-1-8214/E** 032164		**TM-1-8214/EZ** 016673				1 off
		2	**TM-2-8215/E** 034537		**TM-2-8215/EZ** 045481				
		3	**TM-3-8216/E** 036910		**TM-3-8216/EZ** 045492				
Step switches without Off position, 60°									
3 steps									
	 F 076	1	**TM-2-8230/E** 039283		**TM-2-8230/EZ** 000701		**TM-2-8230/IVS** 225344		1 off
		3	**TM-5-8270/E** 041656		**TM-5-8270/EZ** 046124				1 off
4 steps									
	 F 077	1	**TM-2-8231/E** 044029		**TM-2-8231/EZ** 000700		**TM-2-8231/IVS** 225345		1 off
		3	**TM-6-8271/E** 046402		**TM-6-8271/EZ** 046128				1 off

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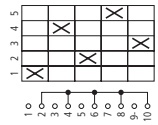
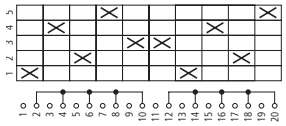
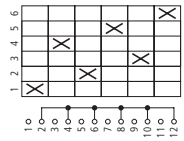
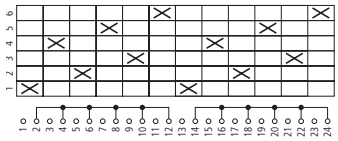
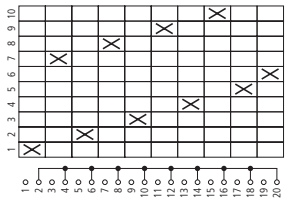
Contact sequence	Front plate no.	No. of poles	Flush mounting, Front IP65 **Type** Article no.	**Price**	Centre mounting, Front IP65 **Type** Article no.	**Price**	Std. pack
Changeover switches without 0 (Off) position, 60°							
5 steps 60°							
	 F 078	1	**TM-3-8232/E** 039298		**TM-3-8232/EZ** 015592		1 off
		2	**TM-5-8252/E** 041671		**TM-5-8252/EZ** 046123		1 off
6 steps 60° Without complete rotation							
	 F 079	1	**TM-3-8233/E** 053521		**TM-3-8233/EZ** 015630		1 off
		2	**TM-6-8253/E** 055894		**TM-6-8253/EZ** 046127		1 off
10 steps 30°							
	 F 011	1	**TM-5-8237/E** 069150		**TM-5-8237/EZ** 015661		1 off

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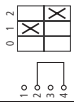
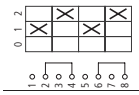
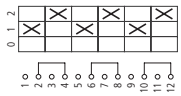
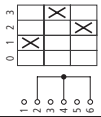
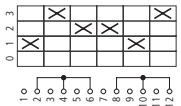
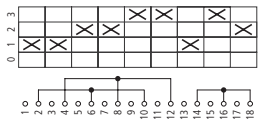
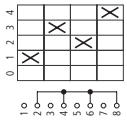
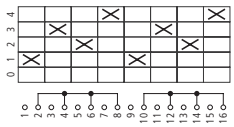
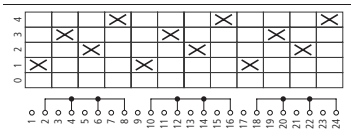
Contact sequence	Front plate no.	No. of poles	Flush mounting, Front IP65 **Type** Article no.	Price	Std. pack	Centre mounting, Front IP65 **Type** Article no.	Price	Std. pack
Step switches with additional 0 (Off) position								
2 steps 60°								
	 F 075	1	**TM-1-8240/E** 058267		1 off	**TM-1-8240/EZ**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

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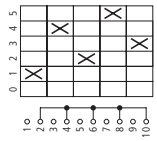
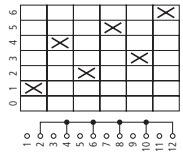
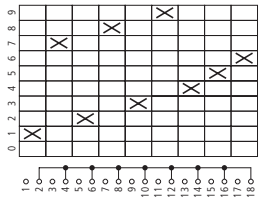
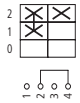
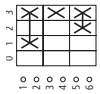
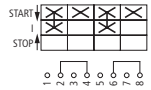
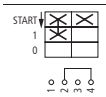
Contact sequence	Front plate no.	No. of poles	Flush mounting, Front IP65 — Type, Article no.	Price	Std. pack	Centre mounting, Front IP65 — Type, Article no.	Price	Std. pack
Step switches with additional 0 (Off) position								
5 steps								
	 F 003	1	**TM-3-8243/E** 079624		1 off	**TM-3-8243/EZ** 015537		1 off
6 steps								
	 F 004	1	**TM-3-8244/E** 081997		1 off	**TM-3-8244/EZ** 045495		1 off
9 steps								
	 F 007	1	**TM-5-8247/E** 009741		1 off	**TM-5-8247/EZ** 015565		1 off
Group switches								
2 groups 60°								
	 F 075	1	**TM-1-8310/E** 084370		1 off	**TM-1-8310/EZ** 045479		1 off
3 groups 30°								
	 F 001	1	**TM-2-8311/E** 086743		1 off	**TM-2-8311/EZ** 045487		1 off
On-Off switches, spring-return, 30°								
On switches, spring-return								
	 F 023	1	**TM-1-8175/E** 091489		1 off	**TM-1-8175/EZ** 015690		1 off
On-Off switches, spring-return								
	 F 024	1	**TM-1-8176/E** 093862		1 off	**TM-1-8176/EZ** 016714		1 off
	 F 024	2	**TM-2-8183/E** 096235		1 off	**TM-2-8183/EZ** 045480		1 off
On-Off spring-return switches, 90°/30°								
With spring-return from START to 1								
	 F 119	1	**TM-1-8178/E** 098608		1 off	**TM-1-8178/EZ** 016786		1 off

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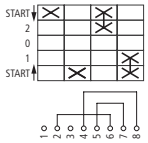
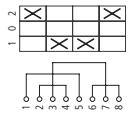
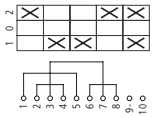
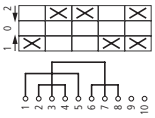
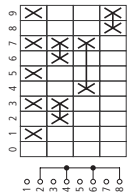
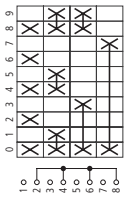
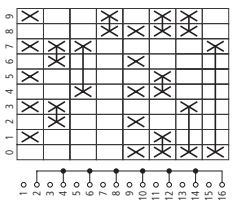
Contact sequence	Front plate no.	No. of poles	**Flush mounting** **Front IP65** **Type** Article no.	**Price** See Price List	**Centre mounting** **Front IP65** **Type** Article no.	**Price** See Price List	Std. pack
Reversing switches with spring-return from START to 1 or 2, 60°/30°							
	 F 121	1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

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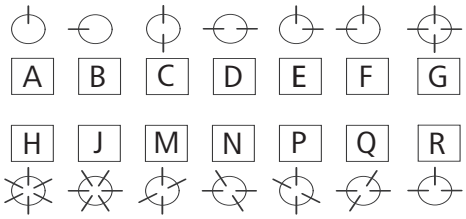
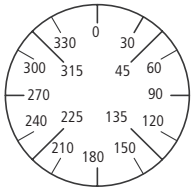
	For mounting form EZ		For mounting form IVS			
	Type suffix Article no. When ordered with basic unit	**Price** See Price List	**Type suffix** Article no. When ordered with basic unit	**Price** See Price List	Std. pack	**Notes**
KABA lock for 90° switching angle Degree of protection IP65, key withdrawable at:						
270°	**+EZ/S-B** 045459		**+IVS/S-B** 232036		1 off	Key operated lock mechanism including two keys. The key can be withdrawn only in specified positions, see diagrams below. However, the KABA lock mechanism for 90° can also be used for other switching angles provided the positions for key withdrawal correspond with those specified for the Type of switch. Example: +EZ/S-B can be used on a step switch having a switching angle of 30°, provided the key is to be withdrawn only in the Off position at 270°.
0 + 90°	**+EZ/S-E** 045462		**+IVS/S-E** 232040			
270 + 0°	**+EZ/S-F** 045463		**+IVS/S-F** 232038			
270 + 0 + 90 + 180°	**+EZ/S-G** 045464		**+IVS/S-G** 232043			
270 + 0 + 90°	**+EZ/S-R** 045471		**+IVS/S-R** 232042			
0°	**+EZ/S-A** 045458		**+IVS/S-A** 232034			
RONIS lock for 60° switching angle Degree of protection IP65, key withdrawable at:						
270 + 90°	**+EZ/S-D** 045461		**+IVS/S-D** 231976		1 off	
300 + 0 + 60 + 120 + 180 + 240°	**+EZ/S-H** 045465		**+IVS/S-H** 231977			
270 + 330 + 30 + 90 + 150 + 210°	**+EZ/S-J** 045466		**+IVS/S-J** 231978			
0 + 60 + 180 + 240°	**+EZ/S-M** 045467		**+IVS/S-M** 231979			
270 + 330 + 90 + 150°	**+EZ/S-N** 045468		**+IVS/S-N** 231980			
300 + 0 + 120 + 180°	**+EZ/S-P** 045469		**+IVS/S-P** 231981			
270 + 30 + 90 + 210°	**+EZ/S-Q** 045470		**+IVS/S-Q** 231982			
0 + 180°	**+EZ/S-C** 045460		**+IVS/S-C** 231975			

Options for key withdrawal



Position marking for the example



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	Type	Article no.	Price See Price	Type	Article no.	Price See Price	Std. pack
T0 rotary switches							
	T0-1-SOND*/E	907765		**T0-5-SOND*/E**	907769		1 off
	T0-1-SOND*/EA/SVB	907776		**T0-5-SOND*/EZ**	907791		
	T0-1-SOND*/EA/SVB-SW	908043		**T0-5-SOND*/IVS**	907810		
	T0-1-SOND*/EZ	907787		**T0-5-SOND*/Z**	907843		
	T0-1-SOND*/I1	207480					
	T0-1-SOND*/I1/SVB	207481		**T0-6-SOND*/E**	907770		
	T0-1-SOND*/I1/SVB-SW	207482		**T0-6-SOND*/EZ**	907792		
	T0-1-SOND*/IVS	907806		**T0-6-SOND*/IVS**	907811		
	T0-1-SOND*/V/SVB	907817		**T0-6-SOND*/Z**	907844		
	T0-1-SOND*/V/SVB-SW	908054					
	T0-1-SOND*/Z	907839		**T0-7-SOND*/E**	907771		
				T0-7-SOND*/EZ	907793		
	T0-2-SOND*/E	907766		**T0-7-SOND*/IVS**	907812		
	T0-2-SOND*/EA/SVB	907777		**T0-7-SOND*/Z**	907845		
	T0-2-SOND*/EA/SVB-SW	908044					
	T0-2-SOND*/EZ	907788		**T0-8-SOND*/E**	907772		
	T0-2-SOND*/I1	207483		**T0-8-SOND*/EZ**	907794		
	T0-2-SOND*/I1/SVB	207484		**T0-8-SOND*/IVS**	907813		
	T0-2-SOND*/I1/SVB-SW	207485		**T0-8-SOND*/Z**	907846		
	T0-2-SOND*/IVS	907807					
	T0-2-SOND*/V/SVB	907818		**T0-9-SOND*/E**	907773		
	T0-2-SOND*/V/SVB-SW	908055		**T0-9-SOND*/EZ**	907795		
	T0-2-SOND*/Z	907840		**T0-9-SOND*/IVS**	907814		
				T0-9-SOND*/Z	907847		
	T0-3-SOND*/E	907767					
	T0-3-SOND*/EA/SVB	907778		**T0-10-SOND*/E**	907774		
	T0-3-SOND*/EA/SVB-SW	908045		**T0-10-SOND*/EZ**	907796		
	T0-3-SOND*/EZ	907789		**T0-10-SOND*/IVS**	907815		
	T0-3-SOND*/I1	207486		**T0-10-SOND*/Z**	907848		
	T0-3-SOND*/I1/SVB	207487					
	T0-3-SOND*/I1/SVB-SW	207488		**T0-11-SOND*/E**	907775		
	T0-3-SOND*/IVS	907808		**T0-11-SOND*/EZ**	907797		
	T0-3-SOND*/V/SVB	907819		**T0-11-SOND*/IVS**	907816		
	T0-3-SOND*/V/SVB-SW	908056		**T0-11-SOND*/Z**	907849		
	T0-3-SOND*/Z	907841					
	T0-4-SOND*/E	907768					
	T0-4-SOND*/EA/SVB	907779					
	T0-4-SOND*/EA/SVB-SW	908046					
	T0-4-SOND*/EZ	907790					
	T0-4-SOND*/I1	207489					
	T0-4-SOND*/I1/SVB	207490					
	T0-4-SOND*/I1/SVB-SW	207491					
	T0-4-SOND*/IVS	907809					
	T0-4-SOND*/V/SVB	907820					
	T0-4-SOND*/V/SVB-SW	908057					
	T0-4-SOND*/Z	907842					

Notes

Price valid for one T rotary switch with one non-standard contact sequence.
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For re-orders, indicate the contact sequence number and the country identifier (e.g. 4711F).

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	Type	Article no.	Price See Price	Type	Article no.	Price See Price	Std. pack
T3 rotary switches							
	T3-1-SOND*/E	907850		**T3-5-SOND*/E**	907854		1 off
	T3-1-SOND*/EA/SVB	907861		**T3-5-SOND*/EA/SVB**	907865		
	T3-1-SOND*/EA/SVB-SW	908080		**T3-5-SOND*/EA/SVB-SW**	908084		
	T3-1-SOND*/EZ	907872		**T3-5-SOND*/EZ**	907876		
	T3-1-SOND*/I2	207492		**T3-5-SOND*/I2**	207504		
	T3-1-SOND*/I2/SVB	207493		**T3-5-SOND*/I2/SVB**	207506		
	T3-1-SOND*/I2/SVB-SW	207494		**T3-5-SOND*/I2/SVB-SW**	207507		
	T3-1-SOND*/V/SVB	907891		**T3-5-SOND*/V/SVB**	907895		
	T3-1-SOND*/V/SVB-SW	908091		**T3-5-SOND*/V/SVB-SW**	908095		
	T3-1-SOND*/Z	907913		**T3-5-SOND*/Z**	907917		
	T3-2-SOND*/E	907851		**T3-6-SOND*/E**	907855		
	T3-2-SOND*/EA/SVB	907862		**T3-6-SOND*/EA/SVB**	907866		
	T3-2-SOND*/EA/SVB-SW	908081		**T3-6-SOND*/EA/SVB-SW**	908085		
	T3-2-SOND*/EZ	907873		**T3-6-SOND*/EZ**	907877		
	T3-2-SOND*/I2	207495		**T3-6-SOND*/V/SVB**	907896		
	T3-2-SOND*/I2/SVB	207496		**T3-6-SOND*/V/SVB-SW**	908096		
	T3-2-SOND*/I2/SVB-SW	207497		**T3-6-SOND*/Z**	907918		
	T3-2-SOND*/V/SVB	907892					
	T3-2-SOND*/V/SVB-SW	908092		**T3-7-SOND*/E**	907856		
	T3-2-SOND*/Z	907914		**T3-7-SOND*/EZ**	907878		
				T3-7-SOND*/Z	907919		
	T3-3-SOND*/E	907852					
	T3-3-SOND*/EA/SVB	907863		**T3-8-SOND*/E**	907857		
	T3-3-SOND*/EA/SVB-SW	908082		**T3-8-SOND*/EZ**	907879		
	T3-3-SOND*/EZ	907874		**T3-8-SOND*/Z**	907920		
	T3-3-SOND*/I2	207498					
	T3-3-SOND*/I2/SVB	207499		**T3-9-SOND*/E**	907858		
	T3-3-SOND*/I2/SVB-SW	207500		**T3-9-SOND*/EZ**	907880		
	T3-3-SOND*/V/SVB	907893		**T3-9-SOND*/Z**	907921		
	T3-3-SOND*/V/SVB-SW	908093					
	T3-3-SOND*/Z	907915		**T3-10-SOND*/E**	907859		
				T3-10-SOND*/EZ	907881		
	T3-4-SOND*/E	907853		**T3-10-SOND*/Z**	907922		
	T3-4-SOND*/EA/SVB	907864					
	T3-4-SOND*/EA/SVB-SW	908083		**T3-11-SOND*/E**	907860		
	T3-4-SOND*/EZ	907875		**T3-11-SOND*/EZ**	907882		
	T3-4-SOND*/I2	207501		**T3-11-SOND*/Z**	907923		
	T3-4-SOND*/I2/SVB	207502					
	T3-4-SOND*/I2/SVB-SW	207503					
	T3-4-SOND*/V/SVB	907894					
	T3-4-SOND*/V/SVB-SW	908094					
	T3-4-SOND*/Z	907916					

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	Type	Article no.	Price See Price	Type	Article no.	Price See Price	Std. pack
T5B rotary switches							
	T5B-1-SOND*/E	907924		**T5B-5-SOND*/E**	907928		1 off
	T5B-1-SOND*/EA/SVB	907934		**T5B-5-SOND*/EA/SVB**	907938		
	T5B-1-SOND*/EA/SVB-SW	908106		**T5B-5-SOND*/EA/SVB-SW**	908110		
	T5B-1-SOND*/I4	207510		**T5B-5-SOND*/V/SVB**	907954		
	T5B-1-SOND*/I4/SVB	207511		**T5B-5-SOND*/V/SVB-SW**	908118		
	T5B-1-SOND*/I4/SVB-SW	207512		**T5B-5-SOND*/Z**	907972		
	T5B-1-SOND*/V/SVB	907950					
	T5B-1-SOND*/V/SVB-SW	908114		**T5B-6-SOND*/E**	907929		
	T5B-1-SOND*/Z	907968		**T5B-6-SOND*/EA/SVB**	907939		
				T5B-6-SOND*/EA/SVB-SW	908111		
	T5B-2-SOND*/E	907925		**T5B-6-SOND*/V/SVB**	907955		
	T5B-2-SOND*/EA/SVB	907935		**T5B-6-SOND*/V/SVB-SW**	908119		
	T5B-2-SOND*/EA/SVB-SW	908107		**T5B-6-SOND*/Z**	907973		
	T5B-2-SOND*/I4	207514					
	T5B-2-SOND*/I4/SVB	207515		**T5B-7-SOND*/E**	907930		
	T5B-2-SOND*/I4/SVB-SW	207516		**T5B-7-SOND*/EA/SVB**	907940		
	T5B-2-SOND*/V/SVB	907951		**T5B-7-SOND*/EA/SVB-SW**	908112		
	T5B-2-SOND*/V/SVB-SW	908115		**T5B-7-SOND*/V/SVB**	907956		
	T5B-2-SOND*/Z	907969		**T5B-7-SOND*/V/SVB-SW**	908120		
				T5B-7-SOND*/Z	907974		
	T5B-3-SOND*/E	907926					
	T5B-3-SOND*/EA/SVB	907936		**T5B-8-SOND*/E**	907931		
	T5B-3-SOND*/EA/SVB-SW	908108		**T5B-8-SOND*/EA/SVB**	907941		
	T5B-3-SOND*/I4	207518		**T5B-8-SOND*/EA/SVB-SW**	908113		
	T5B-3-SOND*/I4/SVB	207519		**T5B-8-SOND*/V/SVB**	907957		
	T5B-3-SOND*/I4/SVB-SW	207520		**T5B-8-SOND*/V/SVB-SW**	908121		
	T5B-3-SOND*/V/SVB	907952		**T5B-8-SOND*/Z**	907975		
	T5B-3-SOND*/V/SVB-SW	908116					
	T5B-3-SOND*/Z	907970		**T5B-9-SOND*/E**	907932		
				T5B-9-SOND*/Z	907976		
	T5B-4-SOND*/E	907927					
	T5B-4-SOND*/EA/SVB	907937		**T5B-10-SOND*/E**	907933		
	T5B-4-SOND*/EA/SVB-SW	908109		**T5B-10-SOND*/Z**	907977		
	T5B-4-SOND*/I4	207521					
	T5B-4-SOND*/I4/SVB	207522					
	T5B-4-SOND*/I4/SVB-SW	207523					
	T5B-4-SOND*/V/SVB	907953					
	T5B-4-SOND*/V/SVB-SW	908117					
	T5B-4-SOND*/Z	907971					

Notes

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	Type	Article no.	Price See Price	Type	Article no.	Price See Price	Std. pack
T5 rotary switches							
	T5-1-SOND*/E	907978		**T5-5-SOND*/E**	907982		1 off
	T5-1-SOND*/EA/SVB	908031		**T5-5-SOND*/EA/SVB**	907991		
	T5-1-SOND*/EA/SVB-SW	908126		**T5-5-SOND*/EA/SVB-SW**	908130		
	T5-1-SOND*/I5	207524		**T5-5-SOND*/V/SVB**	908007		
	T5-1-SOND*/I5/SVB	207525		**T5-5-SOND*/V/SVB-SW**	908138		
	T5-1-SOND*/I5/SVB-SW	207526		**T5-5-SOND*/Z**	908025		
	T5-1-SOND*/V/SVB	908003					
	T5-1-SOND*/V/SVB-SW	908134		**T5-6-SOND*/E**	907983		
	T5-1-SOND*/Z	908021		**T5-6-SOND*/EA/SVB**	907992		
				T5-6-SOND*/EA/SVB-SW	908131		
	T5-2-SOND*/E	907979		**T5-6-SOND*/V/SVB**	908008		
	T5-2-SOND*/EA/SVB	907988		**T5-6-SOND*/V/SVB-SW**	908139		
	T5-2-SOND*/EA/SVB-SW	908127		**T5-6-SOND*/Z**	908026		
	T5-2-SOND*/I5	207527					
	T5-2-SOND*/I5/SVB	207528		**T5-7-SOND*/E**	907984		
	T5-2-SOND*/I5/SVB-SW	207529		**T5-7-SOND*/EA/SVB**	907993		
	T5-2-SOND*/V/SVB	908004		**T5-7-SOND*/EA/SVB-SW**	908132		
	T5-2-SOND*/V/SVB-SW	908135		**T5-7-SOND*/V/SVB**	908009		
	T5-2-SOND*/Z	908022		**T5-7-SOND*/V/SVB-SW**	908140		
				T5-7-SOND*/Z	908027		
	T5-3-SOND*/E	907980					
	T5-3-SOND*/EA/SVB	907989		**T5-8-SOND*/E**	907985		
	T5-3-SOND*/EA/SVB-SW	908128		**T5-8-SOND*/EA/SVB**	907994		
	T5-3-SOND*/I5	207530		**T5-8-SOND*/EA/SVB-SW**	908133		
	T5-3-SOND*/I5/SVB	207531		**T5-8-SOND*/V/SVB**	908010		
	T5-3-SOND*/I5/SVB-SW	207532		**T5-8-SOND*/V/SVB-SW**	908141		
	T5-3-SOND*/V/SVB	908005		**T5-8-SOND*/Z**	908028		
	T5-3-SOND*/V/SVB-SW	908136					
	T5-3-SOND*/Z	908023		**T5-9-SOND*/E**	907986		
	T5-3-SOND*/E	907980		**T5-9-SOND*/Z**	908029		
	T5-4-SOND*/E	907981		**T5-10-SOND*/E**	907987		
	T5-4-SOND*/EA/SVB	907990		**T5-10-SOND*/Z**	908030		
	T5-4-SOND*/EA/SVB-SW	908129					
	T5-4-SOND*/I5	207533					
	T5-4-SOND*/I5/SVB	207534					
	T5-4-SOND*/I5/SVB-SW	207535					
	T5-4-SOND*/V/SVB	908006					
	T5-4-SOND*/V/SVB-SW	908137					

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	Type[1]	Article no.	Price See Price	Type[2]	Article no.	Price See Price	Std. pack
TM non-standard switches							
	TM-1-SOND*/E	907749		**TM-1-SOND-ERSTBESTELLUNG/E**	208261		1 off
	TM-1-SOND*/EZ	907755		**TM-1-SOND-ERSTBESTELLUNG/EZ**	208262		
	TM-1-SOND*/IVS	225346		**TM-1-SOND-ERSTBESTELLUNG/IVS**	225347		
	TM-2-SOND*/E	907763		**TM-2-SOND-ERSTBESTELLUNG/E**	208263		
	TM-2-SOND*/EZ	907756		**TM-2-SOND-ERSTBESTELLUNG/EZ**	208264		
	TM-2-SOND*/IVS	225348		**TM-2-SOND-ERSTBESTELLUNG/IVS**	225349		
	TM-3-SOND*/E	907750		**TM-3-SOND-ERSTBESTELLUNG/E**	208265		
	TM-3-SOND*/EZ	907757		**TM-3-SOND-ERSTBESTELLUNG/EZ**	208266		
	TM-4-SOND*/E	907751		**TM-4-SOND-ERSTBESTELLUNG/E**	208267		
	TM-4-SOND*/EZ	907758		**TM-4-SOND-ERSTBESTELLUNG/EZ**	208268		
	TM-5-SOND*/E	907764		**TM-5-SOND-ERSTBESTELLUNG/E**	208269		
	TM-5-SOND*/EZ	907759		**TM-5-SOND-ERSTBESTELLUNG/EZ**	208270		
	TM-6-SOND*/E	907752		**TM-6-SOND-ERSTBESTELLUNG/E**	208271		
	TM-6-SOND*/EZ	907760		**TM-6-SOND-ERSTBESTELLUNG/EZ**	208272		
	TM-7-SOND*/E	907753		**TM-7-SOND-ERSTBESTELLUNG/E**	208273		
	TM-7-SOND*/EZ	907761		**TM-7-SOND-ERSTBESTELLUNG/EZ**	208274		
	TM-8-SOND*/E	907754		**TM-8-SOND-ERSTBESTELLUNG/E**	208275		
	TM-8-SOND*/EZ	907762		**TM-8-SOND-ERSTBESTELLUNG/EZ**	208276		

Notes

[1] TM-...-SOND.../...:
For subsequent orders, for which the design number is already known. You do **not** need to use form FO2. The design number has 6 digits and must always be greater than 200000.

[2] TM-...-SOND-ERSTBESTELLUNG/...:
For initial orders submit a completed form.



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Key to type references

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

↑ **Switch size**

	Max. units	Max. contacts
T0	11	22
T3	11	22
T5B	10	20
T5	10	20
TM	8	16

↑ **Number of contact units** (2 contacts per contact unit)

↑ **Contact sequence number**
With manufacturing country identifier. With initial order send completed form (see next Page). Contact sequence number is issued by the supplying factory. For subsequent orders, the Type reference 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 switches /EA/ SVB[2)]
- Surface mounting main switches /I.../ SVB
- Rear mounting main switches /V/SVB[2)]
- Mounting forms for TM: /E, /EZ or /IVS

↑ **Accessories**
State in full with every order!
For TM.../EZ only +EZ/S... is possible

Design notes for non-standard contact sequences

Contact sequence
The form on the next Page makes it easy for you to determine the contact sequence.
Master copy

Switching angle
30, 45, 60, 90°
Preferred angle: 60°
For On-Off switches: 90°
For main switches: 90° as FS 908
Changeover with interruption of contact between 2 positions (On-Off-On) not admissible with T0; or T3 and TM = 30°, 45°; or with T5(T5B) = 30°

Star-delta switches only with switching angle ≧ 60°

Terminal markings
The terminals of the TM switches are numbered consecutively, starting at 1.

Spring-return
The switching movement is limited by a stop. The switch returns under spring pressure to the last indexed position. Where a switch has spring-return from both directions, a maximum of three positions can be traversed.
The return angle is < ½ switching angle. A maximum of 6 contacts can be returned at the same time.
The switching angle of spring-return TM mini rotary switches must be ≧ 60°.

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

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

Front plates
Front plates are part of the equipment supplied with an "Initial Order of T Rotary Switch Combinations" and therefore need **not** be ordered separately.

Number ofcontact units

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

Each contact chamber = contact unit has 1 or 2 contacts, each operated by a cam.
On T5(B) one cam operates both contacts.
Consequently for T5(B) the following applies:
Where the total switching angle **is less than 180°,** the contacts can be operated **independently** of one another. At switching angle of 180° and above, two contacts per chamber are possible only if their switching sequences are the same, but offset by 180° (e.g. T5B-4-8235 step switches).

Standard features
As for rotary switches by means of standard contact sequences

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

On non-standard switches, links are only possible between even numbers or odd numbers.
Links between and even number and an odd number cannot be supplied ex-factory and must be supplied by the user at installation.

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

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Binding document for initial orders for T rotary switch combinations

Order number:	Item:	Office:	Name:
4UXXY 2	□	C□F□A□2	H73

Customer:	Customer number:	Date:
2R; □JA C□o	!X□4U1V□□X	U□aa□□X

Quantity: 3

Euro/each:

Switching angle:
- ☐ 30
- ☐ 45
- ☒ 60
- ☐ 90

Type:
- ☐ TM
- ☒ T0
- ☐ T3
- ☐ T5B
- ☐ T5

No. of contacts:

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

Mounting form:
- ☒ E
- ☐ EA/SVB ☐ EA/SVB-SW
- ☐ EZ
- ☐ I...
- ☐ I.../SVB ☐ I.../SVB-SW
- ☐ IVS
- ☐ V/SVB ☐ V/SVB-SW
- ☐ Z
- ☒ + ST-0
- ☐ +_____

Max. characters per switching angle on FS plate

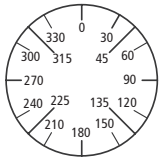
Degrees	TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)
0,180	5	5	6	13	13
30, 210, 330	8	7	4	8	8
45, 135, 225, 315	6	5	4	6	7
60, 120, 240, 300	5	5	3	5	7
90, 270	5	4	1	4	7
150	4	4	4	8	8

Front plate no.

FS 42□ □□W

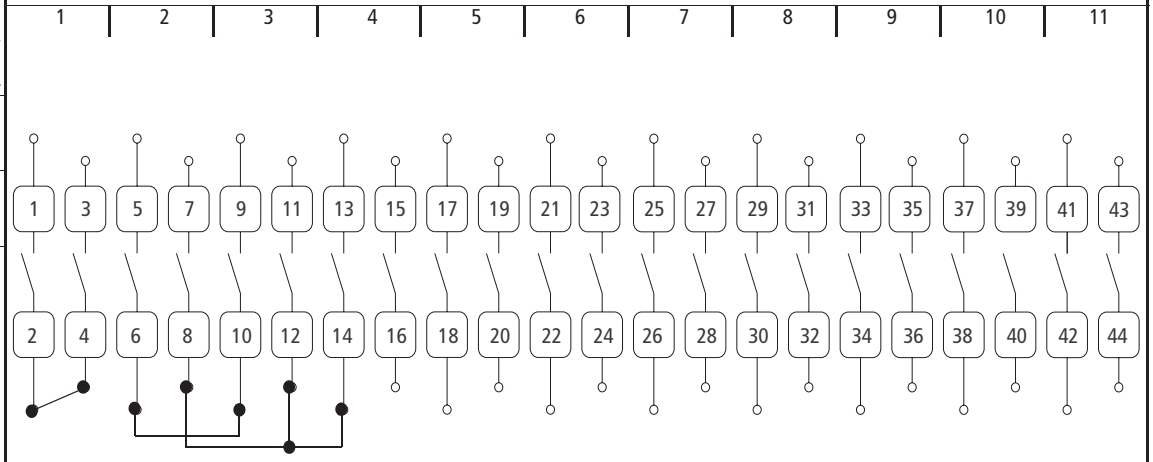
○ **Complete rotation**

☒ **Spring-return**



Inscription

Contact units



Degrees			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	×	×	×	×	×	×		×															
300																								
315																								
330	2	×		×	×					×														
0								×																
30	3	×				×	×																	
45																								
60	4										×													
90																								
120																								
135																								
150																								
180																								
210																								
225																								
240																								
Key withdrawable		×																						
			Contact closed only in position 1	Switching with interruption of contact	Switching without interruption of contact	Contact closed in positions 1 + 3	Contact closed in positions 1 to 3	Fleeting contact (only with 60° or 90°)	Late-break contact	Early-make contact	Contact with automatic spring-return													

Key withdrawability with ..S-T0 and SVA-T3:

Pos. 1:	Key withdrawable
Pos. 2:	Key withdrawable
Pos. 3:	Key withdrawable
Pos. 4:	Key not withdrawable

With SVA-T3 it is possible to switch between Pos. 1 and 2 even after the key has been withdrawn.

Type for re-ordering (to be filled in by factory) T_____

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

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Moeller HPL0211-2004/2005

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Binding document for initial orders for T rotary switch combinations

Order number:	Item:	Office:	Name:

Customer:	Customer number:	Date:

Note:

The number of possible contacts, as well as the possible combinations with mounting forms are shown in the Main Catalogue.

Quantity:

Euro/each:

Switching angle:
- ☐ 30
- ☐ 45
- ☐ 60
- ☐ 90

Type:
- ☐ TM
- ☐ T0
- ☐ T3
- ☐ T5B
- ☐ T5

No. of contacts:
- ☐ 1 ☐ 12
- ☐ 2 ☐ 13
- ☐ 3 ☐ 14
- ☐ 4 ☐ 15
- ☐ 5 ☐ 16
- ☐ 6 ☐ 17
- ☐ 7 ☐ 18
- ☐ 8 ☐ 19
- ☐ 9 ☐ 20
- ☐ 10 ☐ 21
- ☐ 11 ☐ 22

Mounting form:
- ☐ E
- ☐ EA/SVB ☐ EA/SVB-SW
- ☐ EZ
- ☐ I...
- ☐ I.../SVB ☐ I.../SVB-SW
- ☐ IVS
- ☐ V/SVB ☐ V/SVB-SW
- ☐ Z
- ☐ +_____
- ☐ +_____

Max. characters per switching angle on FS plate

Degrees	TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)
0,180	5	5	6	13	13
30, 210, 330	8	7	4	8	8
45, 135, 225, 315	6	5	4	6	7
60, 120, 240, 300	5	5	3	5	7
90, 270	5	4	1	4	7
150	4	4	4	8	8

Front plate no.

FS _____

○ **Complete rotation**

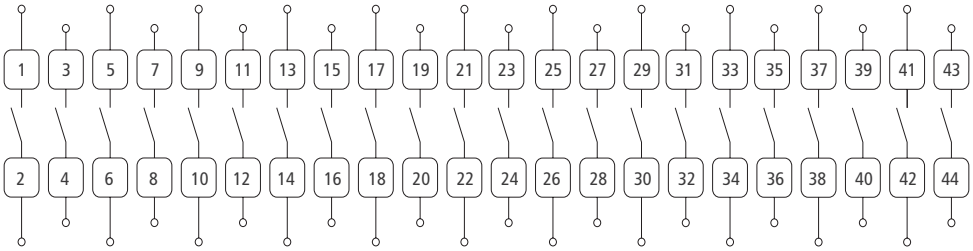
○ Spring-return



Inscription

Contact units

1	2	3	4	5	6	7	8	9	10	11



Degrees	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																						
300																						
315																						
330																						
0																						
30																						
45																						
60																						
90																						
120																						
135																						
150																						
180																						
210																						
225																						
240																						

Key withdrawable	×	Type for re-ordering (to be filled in by factory)	T_____

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

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Moeller HPL0211-2004/2005

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Binding document for initial orders of non-standard front plates

Order number:	Item:	
Office:	Name:	
Customer:	Customer number:	
Quantity:	Euro/each:	Date:

The text is always centred in the text box

Non-Standard Front Plates

Inscription:
Front plate with black lettering

Insert text

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

Type

☐ **FS-SOND-T0 (T3, P1)**

Height of letters
≤ 2 characters 4 mm
≥ 2 characters 3 mm

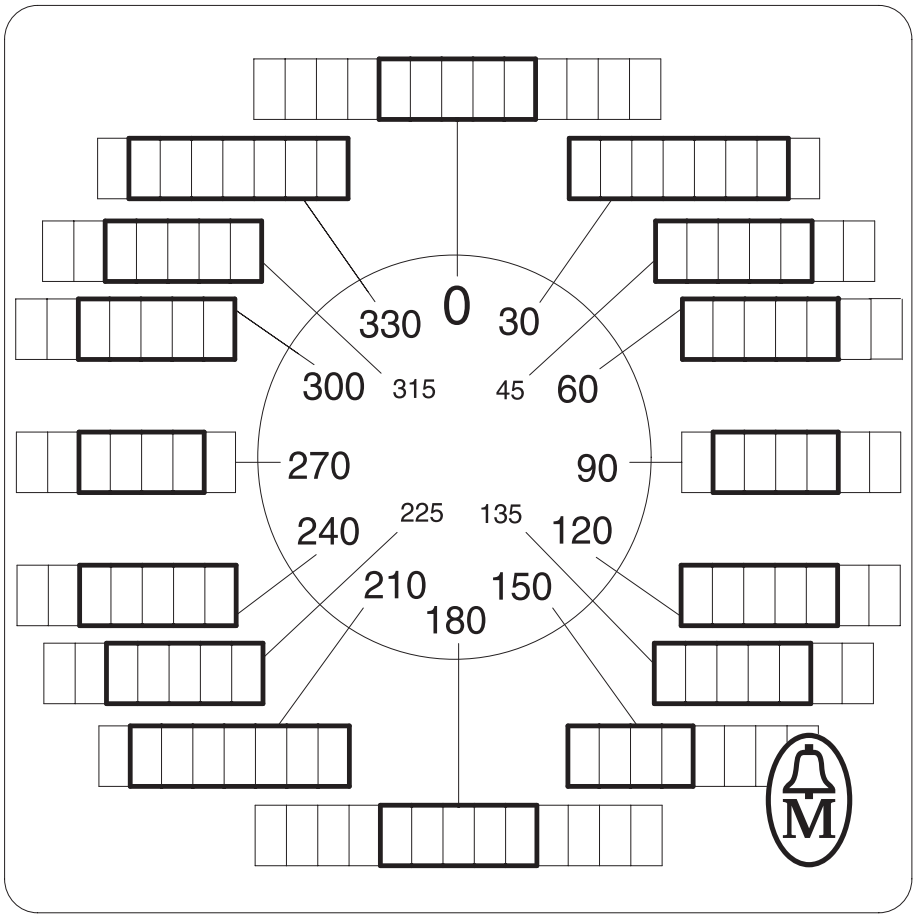
☐ **FS-SOND-P3 (T5B, T5)**

Height of letters
≤ 2 characters 8 mm
≥ 2 characters 5 mm

☐ **FS-SOND-TM-E**

☐ **FS-SOND-TM-EZ**

≤ 2 characters approx. 3.5 mm
≥ 2 characters 3 mm



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

Max. number of characters possible

Position

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

Dimensions

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

Type for re-ordering (to be filled in by factory)

FS.....

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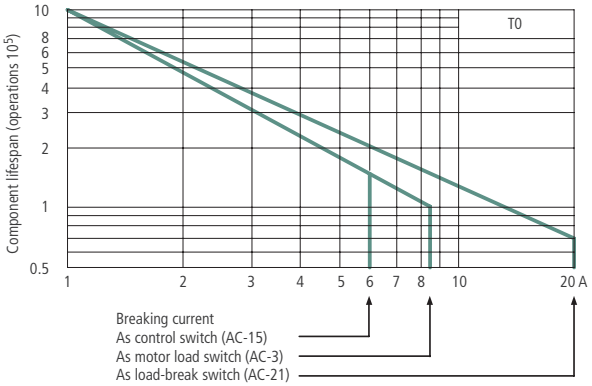
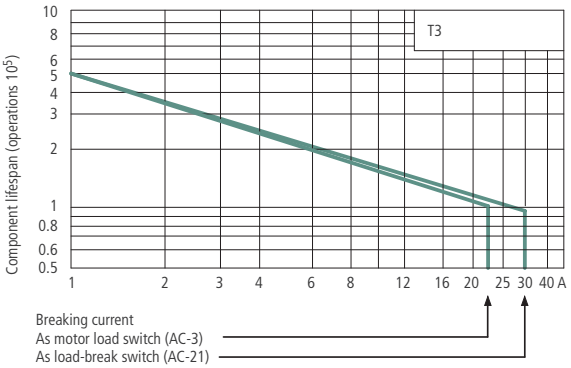
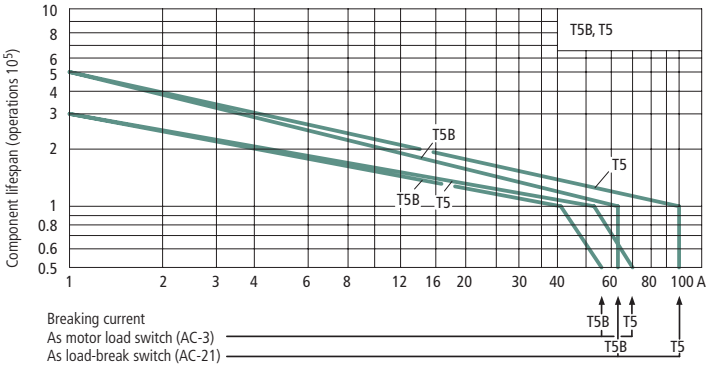
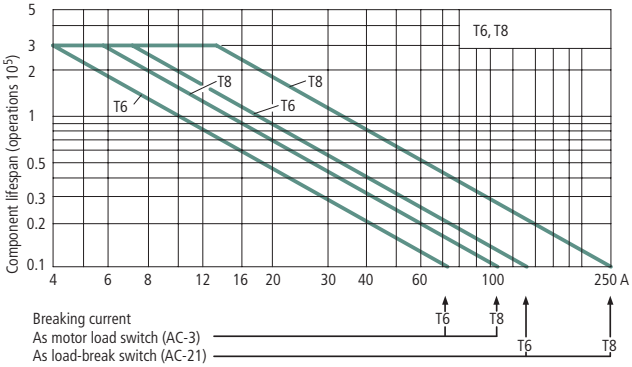
The component lifespan depends on the breaking current and the utilization category [1)]

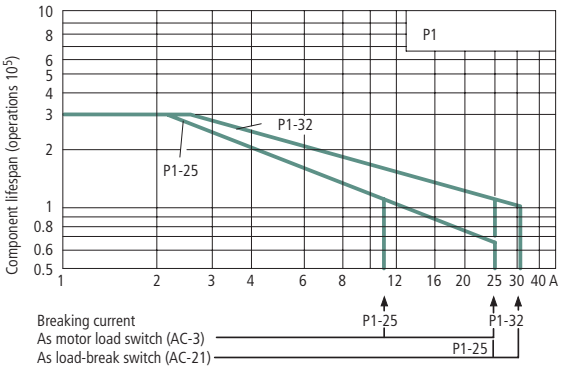
To ensure a reasonable service life in utilization category AC-4 (extreme load: 100 % inching, reversing or plugging) the stand-still current of the motor should not exceed the rated current of the AC-21A switch.

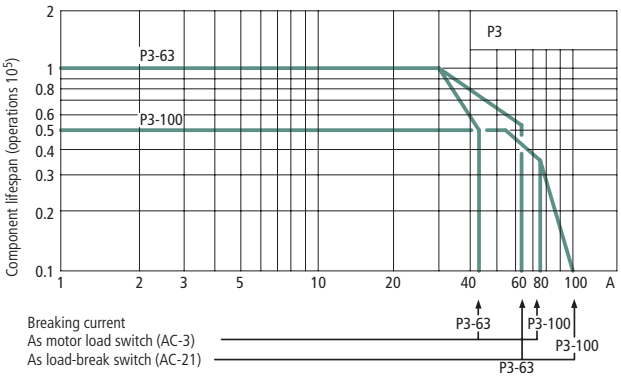












Notes [1)] AC-3 and AC-21 at 400 V, AC-15 at 230 V

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Rotary Switches, Switch-Disconnectors

Moeller HPL0211-2004/2005

			T0-...	T3-...
General technical data				
Standards			IEC/EN 60 947, VDE 0660, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60 947-3	
Lifespan, mechanical	Operations	× 10^6	1	0.5
Maximum operating frequency	Operations/h		3000	3000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30	
Ambient temperature				
Open		°C	-25/+50	-25/+50
Enclosed		°C	-25/+40	-25/+40
Mounting position			As required	As required
Mounting interval		mm	≧4	≧4
Mechanical shock resistance (shock duration 20 ms)		g	> 15	> 15
Contacts				
Rated operational voltage	U_e	V AC	690	690
Rated impulse withstand voltage	U_{imp}	V AC	6000	6000
Overvoltage category/pollution degree			III/3	III/3
Rated uninterrupted current				
Open	I_u	A	20	32
Enclosed	I_u	A	20	32
Load carrying capacity in intermittent operation, Class 12				
AB 25 % DF		× I_e	2	2
AB 40 % DF		× I_e	1.6	1.6
AB 60 % DF		× I_e	1.3	1.3
Short-circuit rating				
Fuse		A gG/gL	20	35
Rated short-time withstand current (1s current)	I_{cw}	A_{rms}	320	650
Safe isolation to IEC 536				
between contacts		V AC	440	440
Switching angle		°	90 60 45 30	90 60 45 30
Contact units			max.11	max.11
Double-break contacts			max.22	max.22
Current heat loss per contact at I_e		W	0.6	1.1
Terminal capacity				
Solid or stranded		mm^2	1 × (1 – 2.5) 2 × (1 – 2.5)	1 × (1 – 6) 2 × (1 – 6)
Flexible with ferrule to DIN 46228		mm^2	1 × (0.75 – 1.5) 2 × (0.75 – 1.5)	1 × (0.75 – 4) 2 × (0.75 – 4)
Flat conductor connection		mm^2	–	–
Terminal screw			M3.5	M4
Tightening torque		Nm	1	1,6

Moeller HPL0211-2004/2005

T5B-...	T5-...	T6-3-8212/E/HI12	T6-160...	T8-...
IEC/EN 60 947, VDE 0660, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60 947-3				
0.5	0.5	0.1	0.1	0.1
3000	3000	50	50	50
Damp heat, constant, to IEC 60068-2-78, cyclical, to IEC 60068-2-30				
-25/+50	-25/+50	-25/+50	-25/+50	-25/+50
-25/+40	-25/+40	-25/+40	-25/+40	-25/+40
As required	As required	As required	As required	As required
≧4	≧4	–	–	–
> 15	> 15	–	–	–
690	690	690	690	690
6000	6000	6000	8000	8000
III/3	III/3	III/3	III/3	III/3
63	100	125	160	315
63	100	125	160	275
2	2	2	2	2
1.6	1.6	1.6	1.6	1.6
1.3	1.3	1.3	1.3	1.3
80	100	200	160	315
1300	1850	2000	3000	4200
440	440	–	–	–
90 60 45 30	90 60 45 30	90 60	90 60	90 60
max.10	max.10	max.3	max.3	max.3
max.20	max.20	max.6	max.6	max.6
4.5	7.5	11	11	11
1 × (2.5 – 35) 2 × (2.5 – 16)	1 × (2.5 – 35) 2 × (2.5 – 16)	1 × 70 2 × 25	1 × 95 2 × 25	150
1 × (1.5 – 25) 2 × (1.5 – 10)	1 × (1.5 – 25) 2 × (1.5 – 10)	1 × 50 2 × 16	1 × 50 2 × 16	120
–	–	–	–	1 × (25 × 5) 2 × (20 × 3)
M6	M6	M6	M5, Inbus	M12
4	4	5,6	14	25

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

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Rotary Switches, Switch-Disconnectors

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

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

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				P1-25	P1-32	P3-63	P3-100
General technical data							
Standards				IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3			
Lifespan, mechanical		Operations	× 10^6	0.3	0.3	0.1	0.1
Maximum operating frequency		Operations/h		50	50	50	50
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; cyclical, to IEC 60068-2-30			
Ambient temperature	Open		°C	-25/+50	-25/+50	-25/+50	-25/+50
	Enclosed		°C	-25/+40	-25/+40	-25/+40	-25/+40
Mounting position				As required	As required	As required	As required
Mounting interval			mm	≧4	≧4	≧4	≧4
Mechanical shock resistance (IEC/EN 60068-2-27)	Half-sinusoidal shock 20 ms		g	15	15	15	15
Contacts							
Rated operational voltage		U_e	V AC	690	690	690	690
Rated impulse withstand voltage		U_{imp}	V AC	6000	6000	6000	6000
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3
Rated uninterrupted current		I_u	A	25	32	63	100
Load carrying capacity in intermittent operation, Class 12	AB 60 % DF		× I_e	1.3	1.3	1.3	1.3
	AB 40 % DF		× I_e	1.6	1.6	1.6	1.6
	AB 25 % DF		× I_e	2	2	2	2
Short-circuit rating	Fuse		A gG/gL	25	50	80	100
Rated short-time withstand current (1s current)		I_{cw}	A_{rms}	640	640	1260	2000
Isolating characteristics to IEC/EN 60 947			V AC	≦690	≦690	≦690	≦690
Safe isolation to IEC 536							
Safe isolation to IEC 536 between auxiliary contacts and main contacts			V AC	440	440	440	440
Switching angle			°	90	90	90	90
Contacts			Qty.	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)
Current heat loss per contact at I_e			W	1.1	1.8	4.5	7.5
Terminal capacity							
Solid or stranded			mm^2	1 × (1.5 – 6) 2 × (1.5 – 6)	1 × (1.5 – 6) 2 × (1.5 – 6)	1 × (2.5 – 35) 2 × (2.5 – 10)	1 × (2.5 – 35) 2 × (2.5 – 10)
Terminal capacity Flexible with ferrule to DIN 46 228			mm^2	1 × (1 – 4) 2 × (1 – 4)	1 × (1 – 4) 2 × (1 – 4)	1 × (1.5 – 25) 2 × (1.5 – 6)	1 × (1.5 – 25) 2 × (1.5 – 6)
Terminal screw				M4	M4	M5	M5
Tightening torque			Nm	1,6	1,6	3	3

Notes Main switch characteristics to IEC/EN 60 204; positive opening of contacts, operator element positively located on shaft
The rated uninterrupted current I_u is given at max. connected cross-section.
For terminal capacity solid, stranded and flexible:
Max. 2 cross-section sizes difference admissible when using 2 conductors.

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						P1-25	P1-32	P3-63	P3-100
Switching capacity									
AC									
Rated making capacity cos φ = 0.35					A	240	320	800	950
Rated breaking capacity Motor load switches cos φ = 0.35		230 V			A	190	260	640	760
		400/415 V			A	150	300	600	740
		500 V			A	170	290	590	880
		690 V			A	150	250	340	520
Rated operational current Load-break switches AC-21A		440 V	I_e		A	25	32	63	100
Motor rating Motor load switches AC-3		230 V	P		kW	5.5	7.5	15	22
		400/415 V	P		kW	7.5	13	30	37
		500 V	P		kW	7.5	18.5	30	45
		690 V	P		kW	7.5	15	30	37
Motor rating Motor load switches AC-23A		230 V	P		kW	7	8.5	18.5	30
		400/415 V	P		kW	13	15	37	50
		500 V	P		kW	11	18.5	37	65
		690 V	P		kW	11	18.5	30	45
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	Rated operational current	I_e		A	25	25	50	50
		Contacts			Qty.	1	1	1	1
	48 V	Rated operational current	I_e		A	25	25	50	50
		Contacts			Qty.	2	2	2	2
	60 V	Rated operational current	I_e		A	25	25	50	50
		Contacts			Qty.	3	3	3	3
	120 V	Rated operational current	I_e		A	12	12	25	25
		Contacts			Qty.	3	3	3	3

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

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				P5-125	P5-160	P5-250	P5-315
General technical data							
Standards				IEC/EN 60947, VDE 0660, IEC/EN 60 204, CSA, UL Switch-disconnectors to IEC/EN 60947-78			
Lifespan, mechanical		Operations	× 10^6	0.1	0.1	0.08	0.08
Maximum operating frequency		Operations/h		50	50	50	50
Climatic proofing				Damp heat, constant, to IEC 60068-2-3; cyclical, to IEC 60068-2-30			
Ambient temperature	Open		°C	-25/+50	-25/+50	-25/+50	-25/+50
	Enclosed		°C	-25/+40	-25/+40	-25/+40	-25/+40
Mounting position				As required	As required	As required	As required
Contacts							
Rated operational voltage		U_e	V AC	690	690	690	690
Rated impulse withstand voltage		U_{imp}	V AC	8000	8000	8000	8000
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3
Rated uninterrupted current		I_u	A	125	160	250	315
Load carrying capacity in intermittent operation, Class 12	AB 60 % DF		× I_e	1.3	1.3	1.3	1.3
	AB 40 % DF		× I_e	1.6	1.6	1.6	1.6
	AB 25 % DF		× I_e	2	2	2	2
Short-circuit rating	Fuse		A gG/gL	125	160	250	315
Rated short-time withstand current (1s current)		I_{cw}	A_{rms}	2500	3000	4600	5800
Isolating characteristics to IEC/EN 60947			V AC	≦690	≦690	≦690	≦690
Safe isolation to IEC 536							
Safe isolation to IEC 536 between auxiliary contacts and main contacts			V AC	440	440	440	440
Switching angle			°	90	90	90	90
Contacts			Qty.	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)	max. 3 (+N)
Current heat loss per contact at I_e			W	8	10	13	16
Terminal capacity							
Solid or stranded			mm^2	1 × (10 – 95) 2 × (10 – 35)	1 × (10 – 95) 2 × (10 – 35)	1 × (16 – 185) 2 × (16 – 70)	1 × (16 – 185) 2 × (16 – 70)
Terminal capacity Flexible with ferrule to DIN 46228			mm^2	1 × (16 – 70) 2 × (16 – 25)	1 × (16 – 70) 2 × (16 – 25)	1 × (25 – 120) 2 × (25 – 50)	1 × (25 – 120) 2 × (25 – 50)
Terminal screw				Allen screw 5	Allen screw 5	Allen screw 6	Allen screw 6
Tightening torque			Nm	14	14	16	16

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

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						P5-125	P5-160	P5-250	P5-315
Switching capacity									
AC									
Rated making capacity cos φ = 0.35					A	850	1050	1700	2050
Rated breaking capacity Motor load switches cos φ = 0.35		230 V			A	800	900	1600	1800
		400/415 V			A	750	850	1380	1650
		500 V			A	650	850	1250	1550
		690 V			A	340	340	400	400
Rated operational current Load-break switches AC-21A		440 V	I_e		A	125	160	250	315
Rated power Motor load switches AC-3		230 V	P		kW	22	30	37	45
		400/415 V	P		kW	37	45	55	75
		690 V	P		kW	30	37	45	45
Rated power Motor load switches AC-23A		230 V	P		kW	30	30	37	55
		400/415 V	P		kW	45	55	90	110
		690 V	P		kW	37	37	45	45
DC									
DC-1, Load-break switches L/R = 1 ms		Rated operational current	I_e		A	125	160	250	315
		Voltage per contact pair in series			V	42	42	42	42
DC-23A, Motor load switches L/R = 15 ms	24 V	Rated operational current	I_e		A	125	160	250	315
		Contacts			Qty.	3	3	3	3
	48 V	Rated operational current	I_e		A	125	160	250	315
		Contacts			Qty.	3	3	3	3
	60 V	Rated operational current	I_e		A	125	160	250	315
		Contacts			Qty.	3	3	3	3
	120 V	Rated operational current	I_e		A	40	50	80	100
		Contacts			Qty.	3	3	3	3

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

				HI...-P1(P3)...	HI...-P5...
Auxiliary contacts					
Standards				Control circuit isolators to IEC/EN 60947-5 ⊖	
Rated insulation voltage	U_i		V AC	500	500
Rated uninterrupted current	I_u		A	10	10
Rated operational current					
AC-15					
230 V	I_e		A	6	6
400/415 V	I_e		A	–	3
DC-13					
125 V	I_e		A	1.1	0.23
250 V	I_e		A	0.55	0.1
Short-circuit rating					
Max. fuse			A gG/gL	10	10
Terminal capacity					
Solid			mm^2	0.75 – 2.5	0.75 – 2.5
Flexible with ferrule to DIN 46228			mm^2	0.5 – 1.5	0.5 – 2.5
Tightening torque			Nm	0.6	0.8
Control circuit reliability at 24 V DC, 10 mA	Fault probability		H_F	< 10^{-5}, < 1 fault in 100 000 operations	

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					TM mini rotary switches
General technical data					
Standards					IEC/EN 60947, VDE 0660 UL, CSA Control switches to IEC/EN 60 947-5-1 Control circuit isolators to IEC/EN 60947-5-1
Control circuit isolators (IEC/EN 60947-5-1)					Maximum of 6 contacts; switching angle 90°
Lifespan, mechanical			Operations	× 610	>1
Maximum operating frequency			Operations/h		3000
Climatic proofing					Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature					
Open				°C	-25/+50
Enclosed				°C	-25/+40
Mounting position					As required
Terminal capacity					
Solid				mm^2	1 × 1.5 2 × 1.5
Flexible without ferrule				mm^2	1 × 1.5 2 × 1.5
Solid or stranded				AWG	1 × 14 2 × 14
Flexible				AWG	1 × 16 2 × 16
Terminal screw					M2.5
Tightening torque				Nm	0.35
Contacts					
Mechanical variables					
Contacts				Qty.	max. 16
Contact units					max.8
Switching angle				°	90 60 45 30
Smallest switching angle for On-Off-On				°	60
Max. number of switch positions					≦12
Thickness of gold coating				µµ	35
Electrical characteristics					
Rated operational voltage			U_e	V AC	500
Rated impulse withstand voltage			U_{imp}	V AC	4000
Overvoltage category/pollution degree					III/3
Rated insulation voltage			U_i	V AC	500
Rated insulation voltage for UL/CSA				V AC	300
Rated uninterrupted current			I_u	A	10
Switching capacity					
AC-23 Motor load switches	230 V AC, 3-pole			kW	1.8
	440 V AC, 3-pole			kW	3
	230 V AC, 1-pole			kW	0.75
	440 V AC, 1-pole			kW	1.1
AC-15 control switches	230 V AC, 1-pole			A	2.5
	400/415 V AC, 1-pole			A	1.5
	440 V AC, 1-pole			A	1
DC-1 Load-break switches	1 – 24 V DC			A	10
	110 – 240 V DC			A	0.7 – 0.3
DC-13, control switches L/R = 50 ms	Rated operational current		I_e	A	3
	Voltage per contact pair in series			V	32
Switching capacity for North America	240 V AC, 3-pole			HP	1
	277 V AC, 1-pole			HP	¾
	300 V AC Heavy duty			A	10
Max. short-circuit protective device					
Fuse				A gG/gL	10
Control circuit reliability at 24 V DC, 10 mA			Fault probability	H_F	$< 10^{-5}$, < 1 fault in 100000 operations

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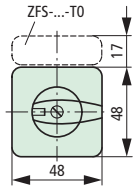
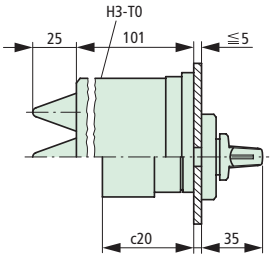
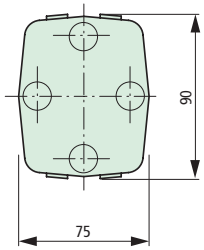
Moeller HPL0211-2004/2005

Flush mounting

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







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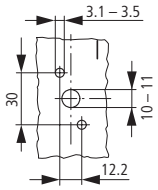
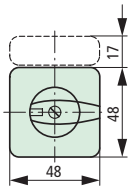
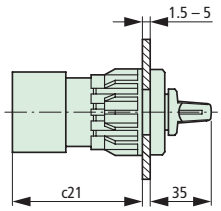


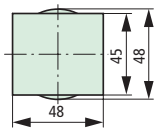
Centre mounting

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

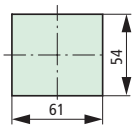




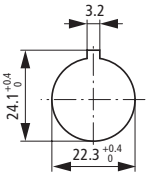
T0



T3



Drilling dimensions



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

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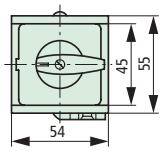
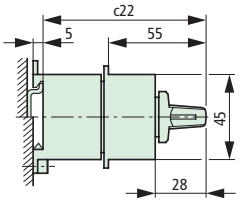
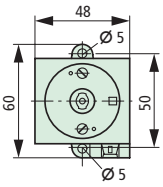
Service distribution board mounting

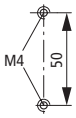
T0.../IVS





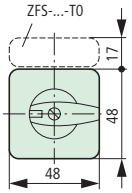
Drilling dimensions Base

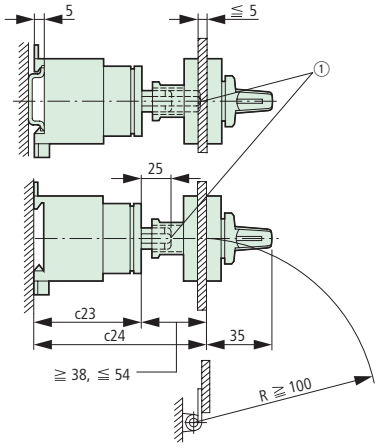




Rear mounting

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

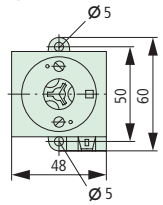


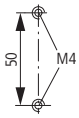


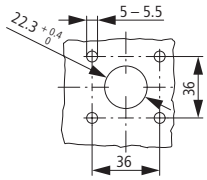
Drilling dimensions Base

Drilling dimensions Door

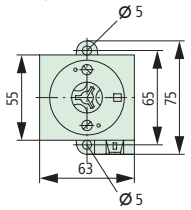
T0

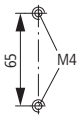


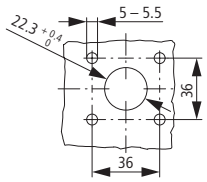




T3







① Can be extended using ZAV-T0,
≦ 4 × 25 = 100 mm

Type	c20	c21	c22	c23	c24 ≧/≦	c24 with ≦ 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 ≧/≦	c24 with ≦ 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

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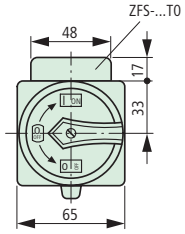
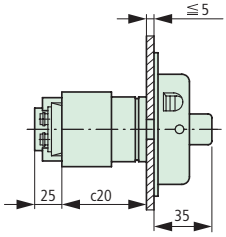
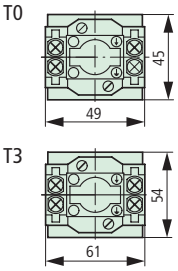
Flush mounting main switches

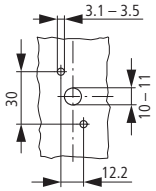
T0.../EA/SVB
T3.../EA/SVB





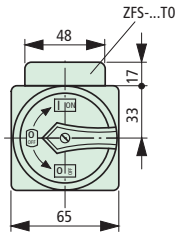


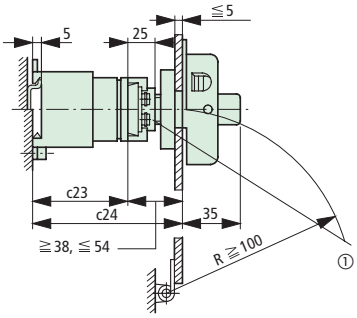
Drilling dimensions Door



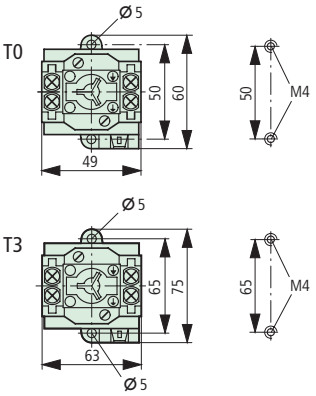
Rear mounting main switches

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

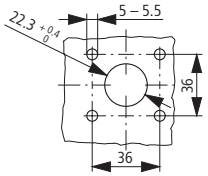




Drilling dimensions Base



Drilling dimensions Door



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

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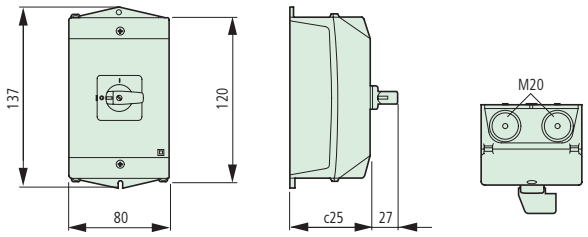
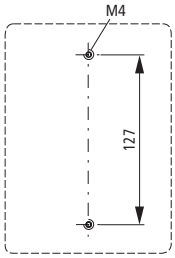
Surface mounting

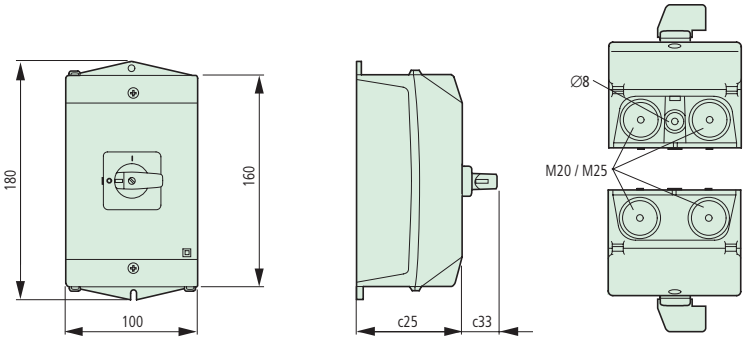
T0.../I1



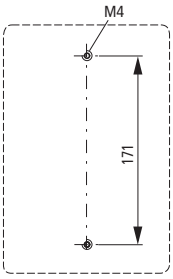
Drilling dimensions
Base



T3.../I2

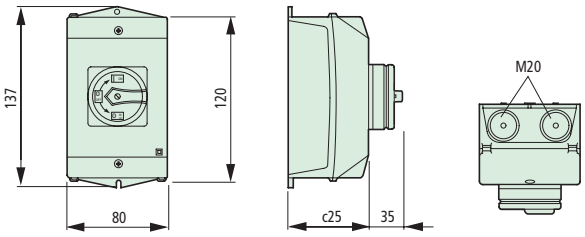


Drilling dimensions
Base

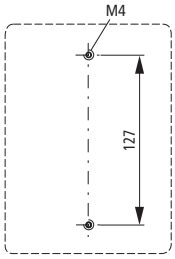


Surface mounting main switches

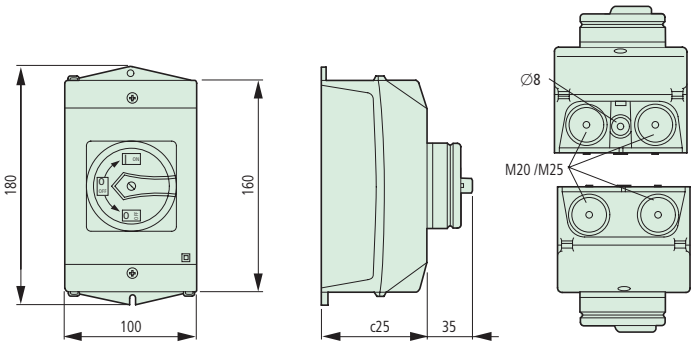
T0.../I1/SVB



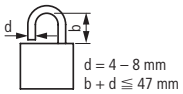
Drilling dimensions
Base



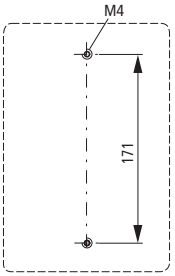
T3.../I2/SVB



≦ 3 padlocks



Drilling dimensions
Base



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

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

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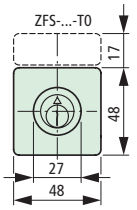
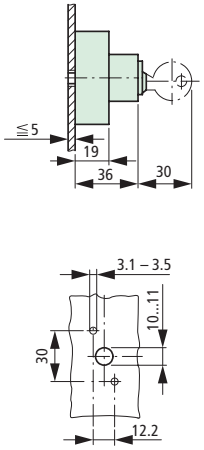
Moeller HPL0211-2004/2005

Key operated lock mechanism

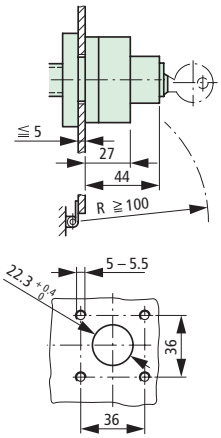
S-T0
S-SOND...-T0



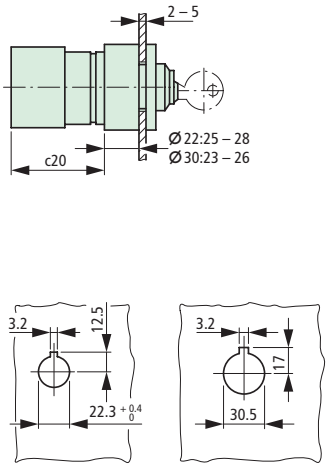
T0.../E(I1) + S-(SOND-)T0
T3.../E(I2) + S-(SOND-)T0



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

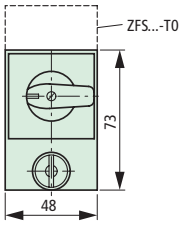


T0.../EZ ≙ T0../E + EZ-T0 + S-(SOND-)T0
T3.../EZ ≙ T3../E + EZ-T0 + S-(SOND-)T0

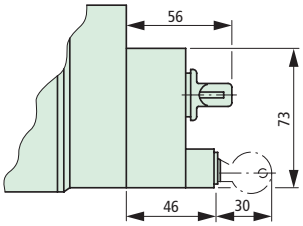


Cylinder lock

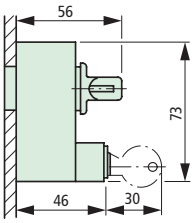
SVA-T3



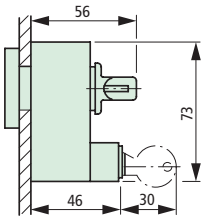
T0.../I1/SVA
T3.../I2/SVA
P1.../12/SVA



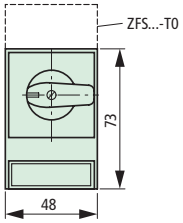
T0.../E/SVA...
T3.../E/SVA...
P1.../E/SVA



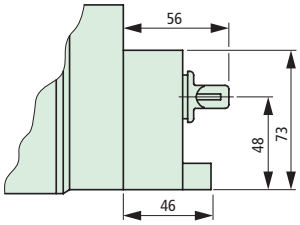
T0.../Z/SVA...
T3.../Z/SVA...
P1.../Z/SVA



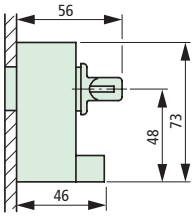
SVC-T3 padlocking feature



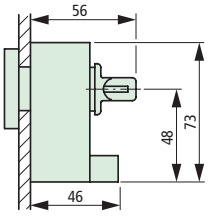
T0.../I1/SVC
T3.../I2/SVC
P1.../12/SVC



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

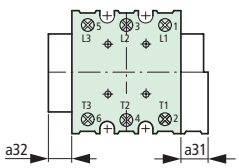


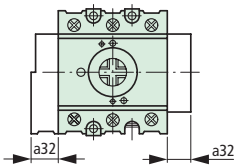
T0.../Z/SVC...
T3.../Z/SVC...
P1.../Z/SVC

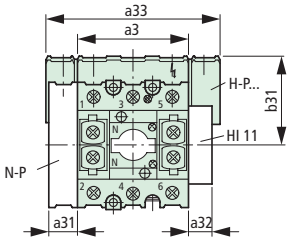


Modules

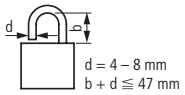
Switched neutral: N-P...
Auxiliary contacts: HI 11-P1/P3







≦ 3 padlocks



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

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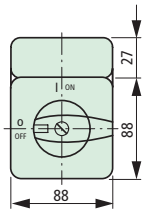
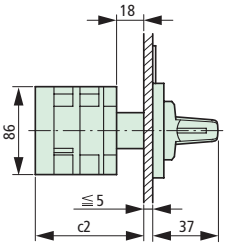
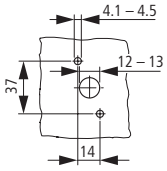
Flush mounting
T5(B).../E

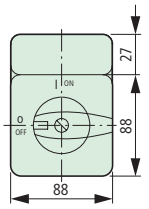


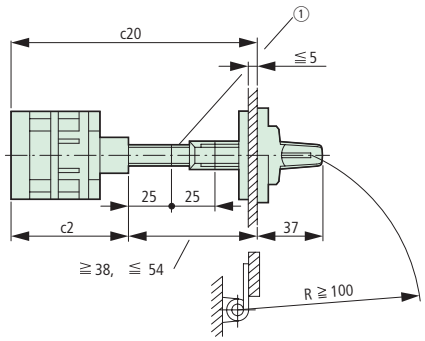


Drilling dimensions
Door

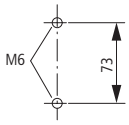


Rear mounting
T5(B).../Z

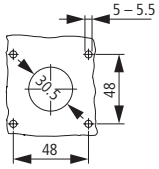




Drilling dimensions
Base

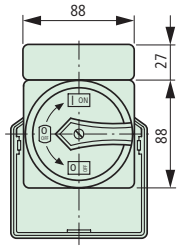


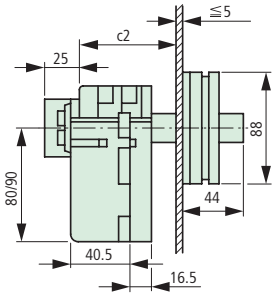
Drilling dimensions
Door



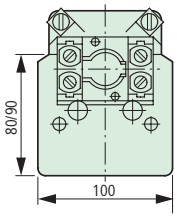
① Shaft can be extended using ZAV-P3 ≦ 4 × 25 = 100 mm

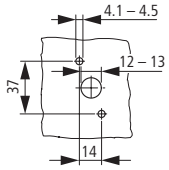
Flush mounting main switches
T5(B).../EA/SVB



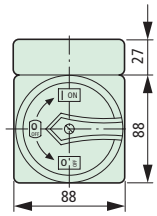


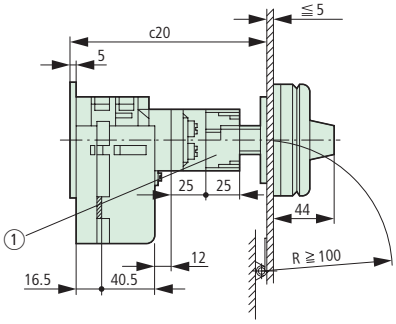
Drilling dimensions
Door



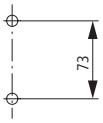


Rear mounting main switches
T5(B).../V/SVB

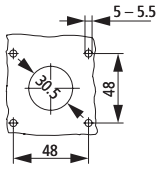




Drilling dimensions
Base



Drilling dimensions
Door



Type	c2	c20 ≧/≦	c20 with ≦ 4 ZAV	c21	c22
T5(B)-1...	54	92 – 107	207	90	125 (95)
T5(B)-2...	71	109 – 124	224	90	125 (95)
T5(B)-3...	87	125 – 140	240	123	160 (160)
T5(B)-4...	104	142 – 157	257	123	160 (160)
T5(B)-5...	120	158 – 173	273	–	–
T5(B)-6...	137	175 – 190	290	–	–
T5(B)-7...	153	191 – 206	306	–	–
T5(B)-8...	170	208 – 223	323	–	–
T5(B)-9...	186	224 – 239	339	–	–
T5(B)-10...	203	240 – 356	356	–	–

Depth of one contact unit: 16.5 mm

① Can be extended using ZVV-P3, ≦ 4 × 25 = 100 mm

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

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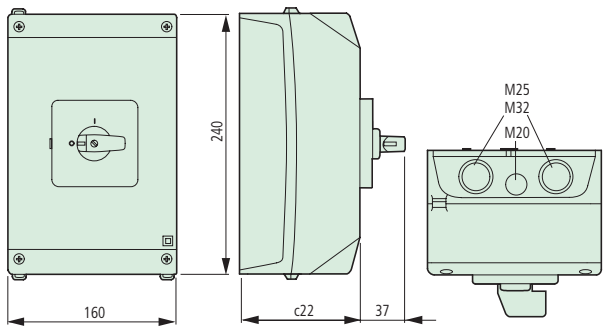
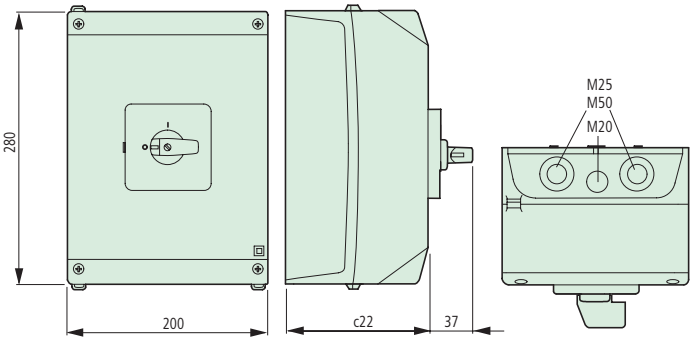
Moeller HPL0211-2004/2005

Surface mounting

T5(B).../I4

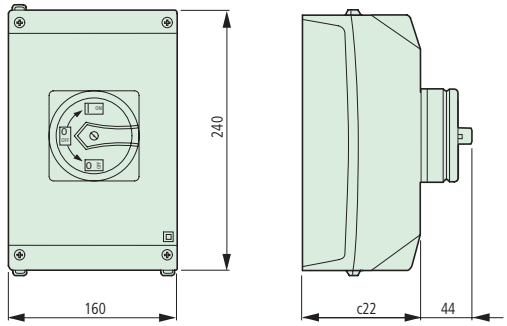


T5.../I5

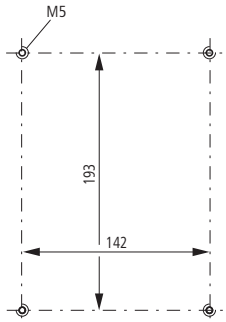


Surface Mounting Main Switches

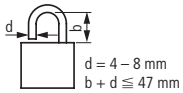
T5(B).../I4/SVB



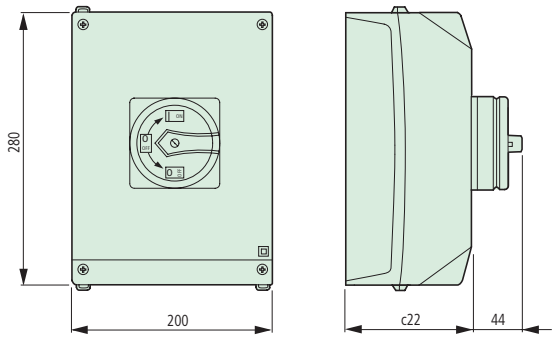
Drilling dimensions



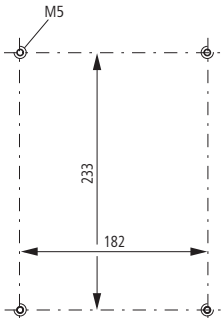
≦ 3 padlocks



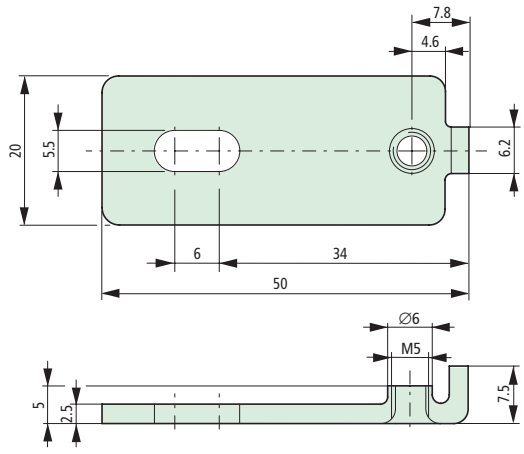
T5.../I5/SVB



Drilling dimensions



External fixing bracket



Type	c22
T5(B)-1...	125 (95)
T5(B)-2...	125 (95)
T5(B)-3...	160 (160)
T5(B)-4...	160 (160)

Depth of one contact unit: 16.5 mm

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

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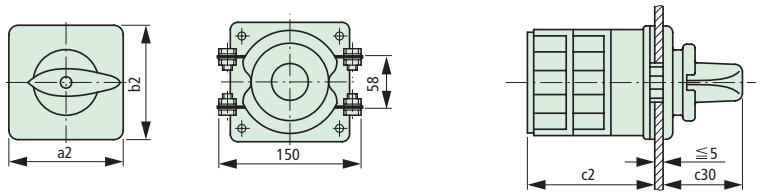
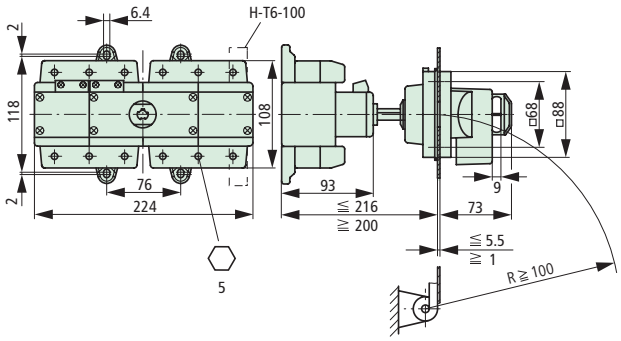
Flush mounting

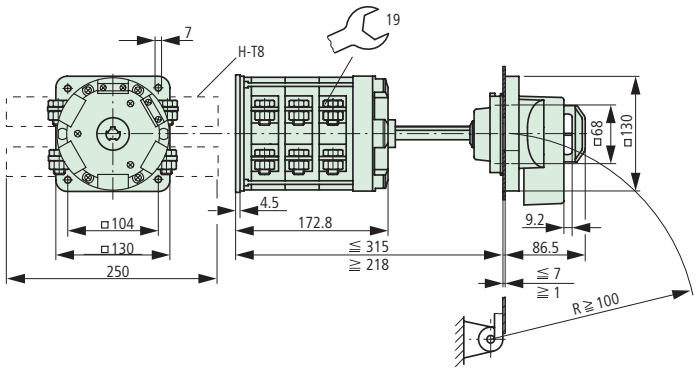
T6.../E/HI12
T8.../E/HI12



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

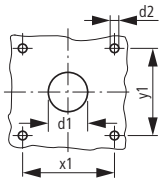


T8-3-8342/V/SVB-SW/HI11



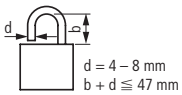
Type	a2	b2	c2	2 BE	3 BE	c30	d1	d2	x1	y1
			BE = Number of contact units							
T6...	88	88		100	152	44	∅ 26–30	∅ 6.0	68	68
T8.../E	130	130		–	173	62	∅ 22–25	∅ 7.0	104	104
T8.../SVB	–	–		–	–	–	∅ 38–42	∅ 7.0	68	68

Drilling dimensions
Door



T6: 4 M5 × 20
T8: 4 M6 × 20

≦ 3 padlocks for T.../SVB



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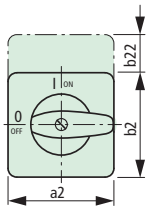
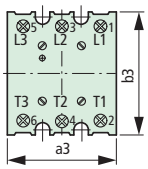
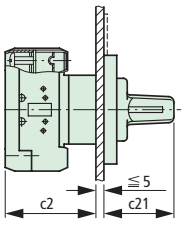
Flush mounting **Centre mounting**

P.../E



P1.../EZ

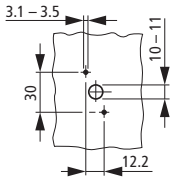




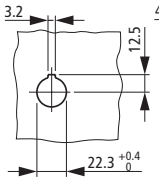
P1.../EZ = c2 + 5 mm

Drilling dimensions Door

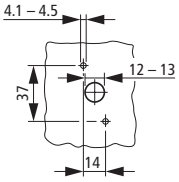
P1-.../E



P1-.../EZ

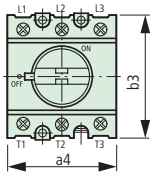


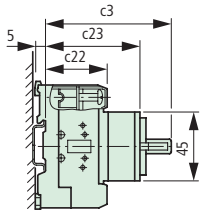
P3-.../E

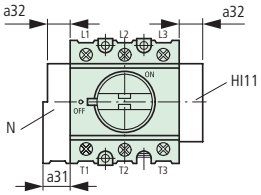


Service distribution board mounting

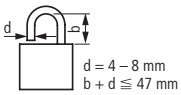
P3.../IVS



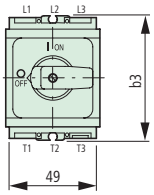


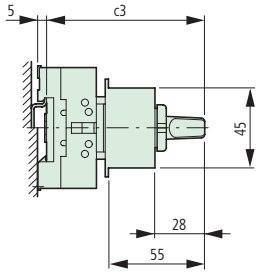


≦ 3 padlocks



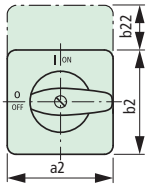
P1.../IVS

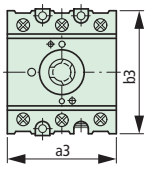


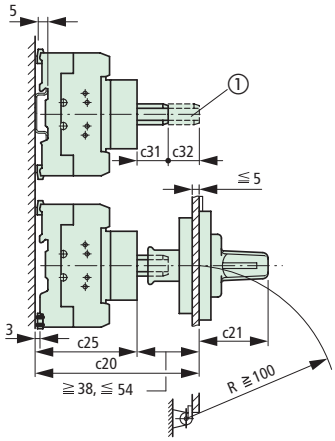


Rear mounting

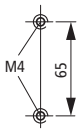
P.../Z



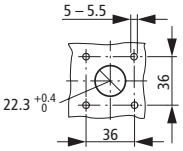




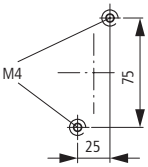
Drilling dimensions Base P1.../Z

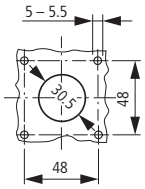


Drilling dimensions Door



P3.../Z





① Shaft can be extended using ZAV-... ≦ 4 × 25 = 100 mm

Type	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1	48	49	53,5	65	48	87	15	15	83	48	70	65	17	180	32	49
P3	87	72	71.5	87	87	125	18	15	114	87	95	87	27	175	–	60

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

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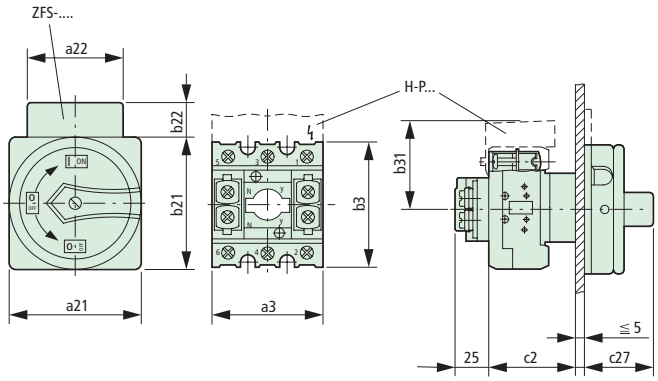
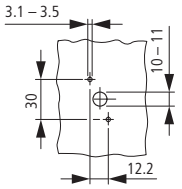
Flush mounting main switches

P.../EA/SVB

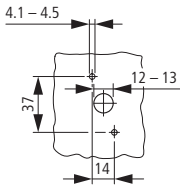


Drilling dimensions Door

P1...

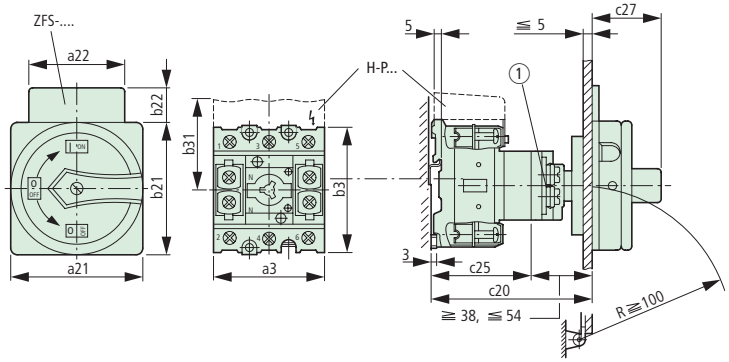


P3...



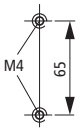
Rear mounting main switches

P.../V/SVB

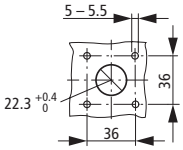


Drilling dimensions Base

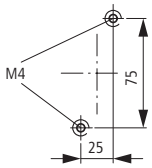
P1.../V/SVB

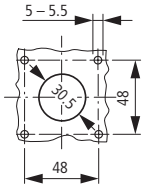


Drilling dimensions Door



P3.../V/SVB

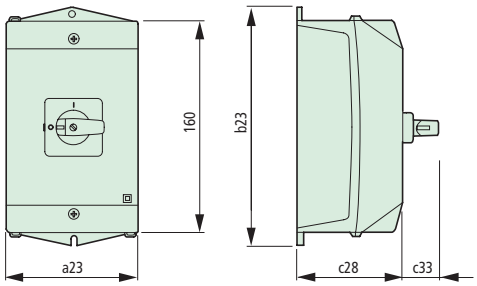




① Interlock can be extended using ZVV-... + ZAV-..., ≦ 4 × 25 = 100 mm

Surface mounting

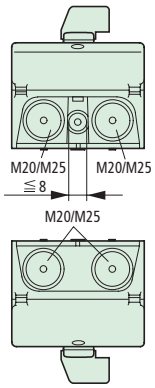
P1.../I2

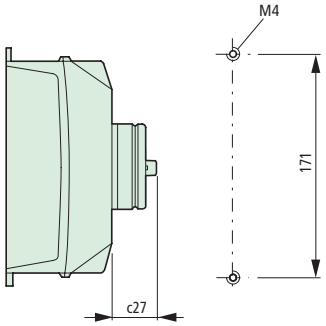


Surface mounting main switches/Safety switches

Drilling dimensions

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





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

Type	c2	c3	c20 ≧/≦	c20 with ≦ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1...	59	86	96 – 112	212	35	32	65	68	58	35	80	25	25	27

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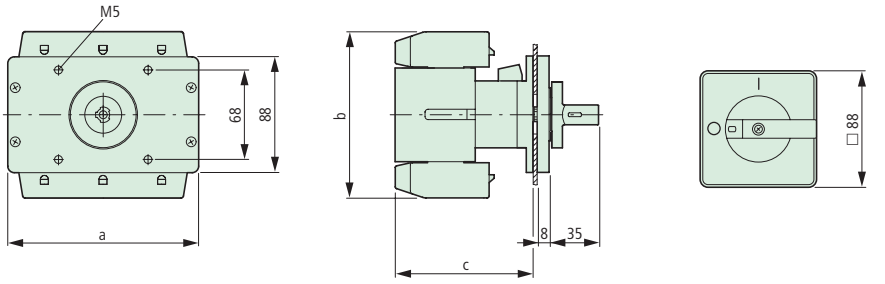
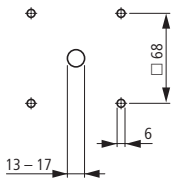
Flush mounting

P5.../E

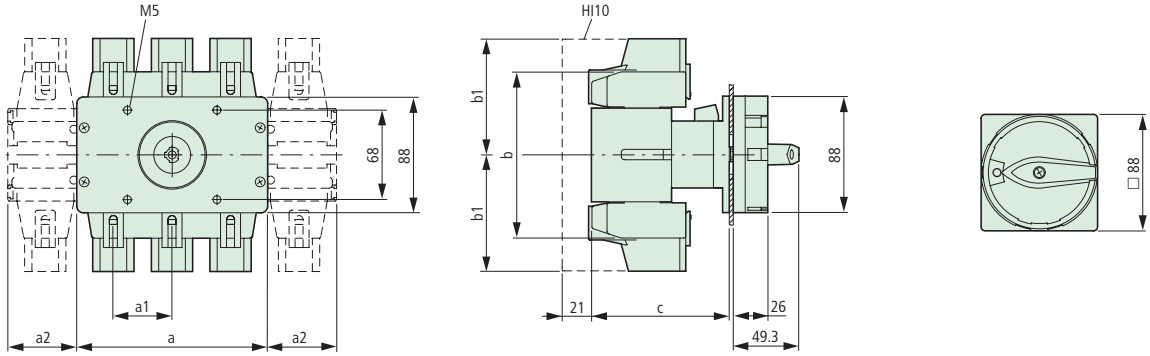


Drilling dimensions



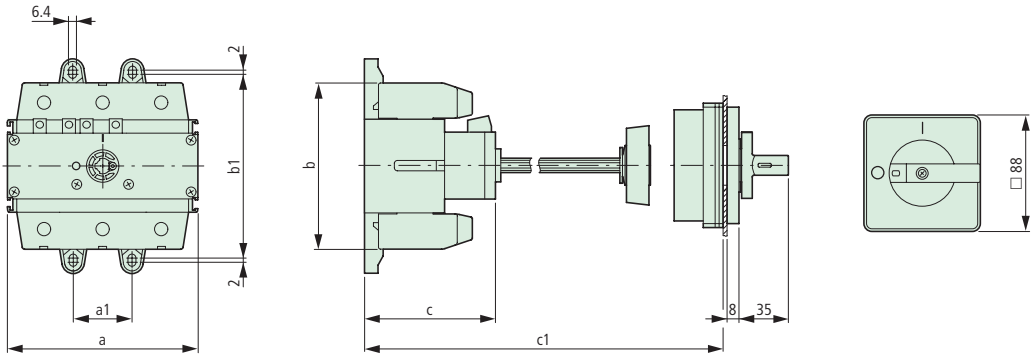
Flush mounting main switches

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

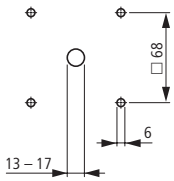


Rear mounting

P5.../Z

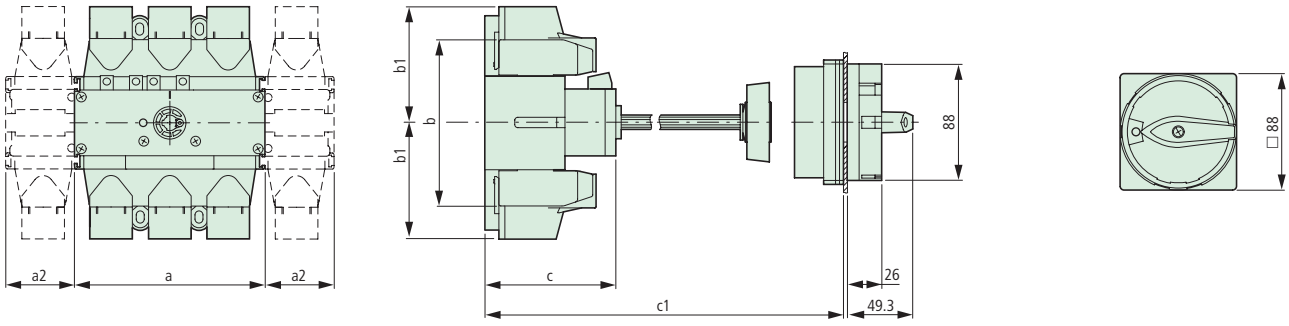


Drilling dimensions



Rear mounting main switches

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



Type	a	a1	a2	b	b1	c	c1
P5-125/160	112	36	38	108	76	91	≦ 287
P5-250/315	145	44	52.5	126	88	98	≦ 280

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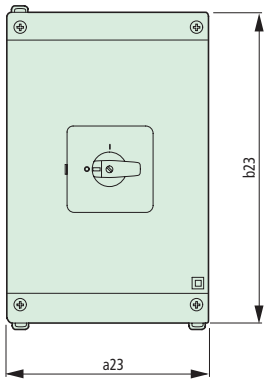
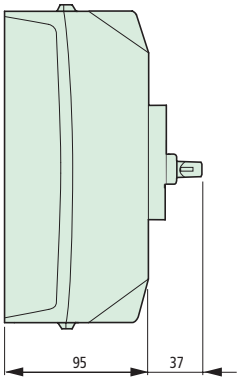
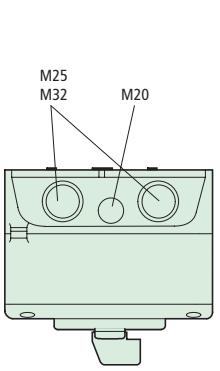
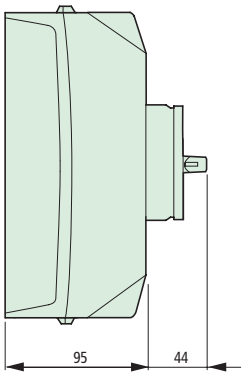
Surface mounting
P3-63/I4



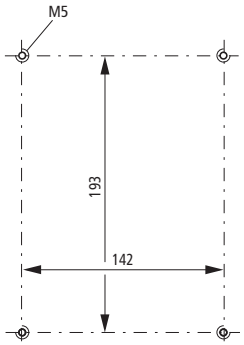


Surface mounting main switches/Safety switches
P3-63/I4/SVB
P3-63/I4/SI
T5B-.../I4/SI



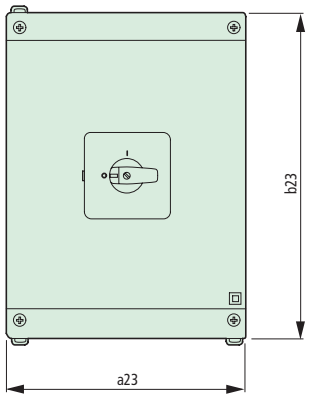


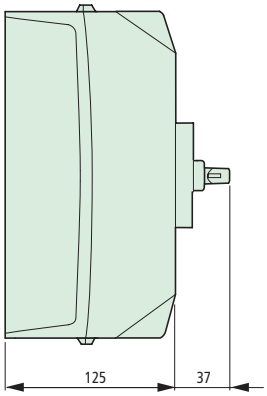
Drilling dimensions



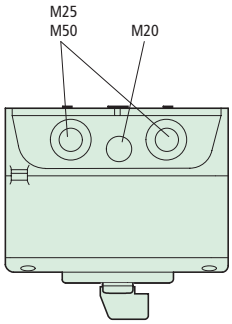
Surface mounting

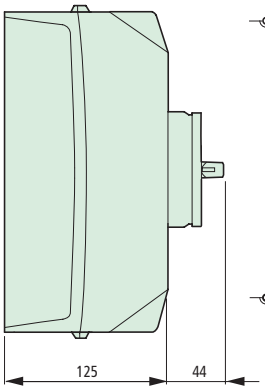
P3-100/I5



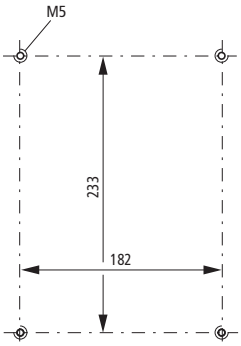


Surface mounting main switches/Safety switches
P3-100/I5/SVB
P3-100/I5/SI
T5-.../I5/SI





Drilling dimensions



Type	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
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 ≧/≦	c20 with ≦ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P3-63	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37
P3-100	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37

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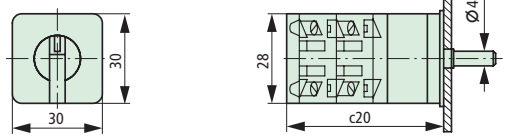
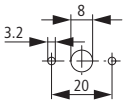
Flush mounting

TM.../E



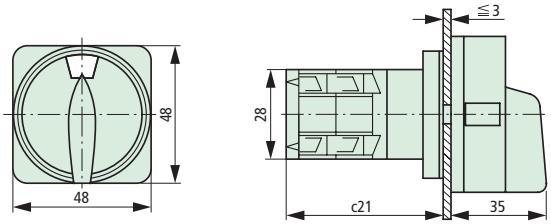
Drilling dimensions



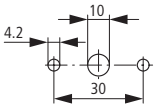
Control circuit isolators

For 2 padlocks ∅ 4 mm or 1 padlock ∅ 6 mm

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

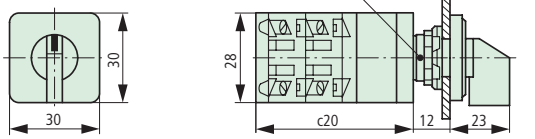


Drilling dimensions

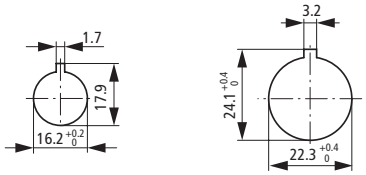


Centre mounting

TM-.../EZ

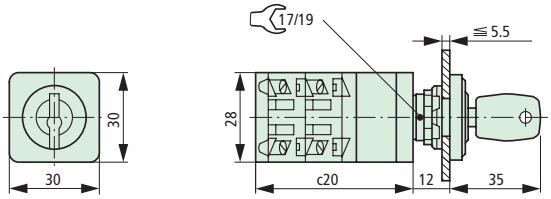


Drilling dimensions[1)]

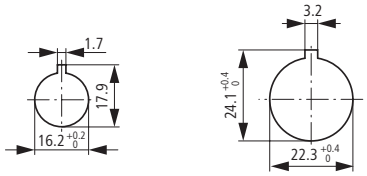


Centre mounting with key operation

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



Drilling dimensions[1)]

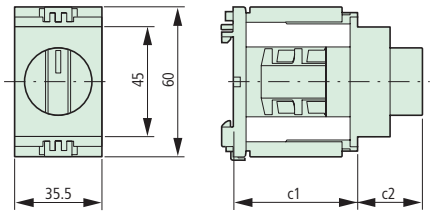


Type	c20	c21
TM-1...	39	42
TM-2...	51	54
TM-3...	63	66
TM-4...	75	
TM-5...	87	
TM-6...	99	
TM-7...	111	
TM-8...	123	

Depth of one contact unit: 12 mm

Service distribution board mounting

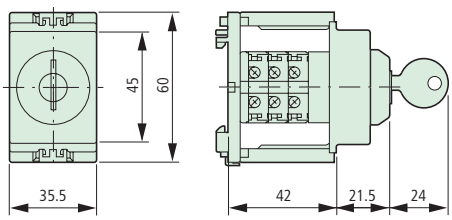
TM-.../IVS



Type	C1	C2
TM-1...	44	21
TM-2...	46	26,5

Depth of one contact unit: 12 mm

TM-.../IVS/S



Notes [1)]) Drilling dimensions as required: 16.2 mm = without reduction ≙ RMQ16; 22.3 mm = with reduction ≙ RMQ-Titan

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