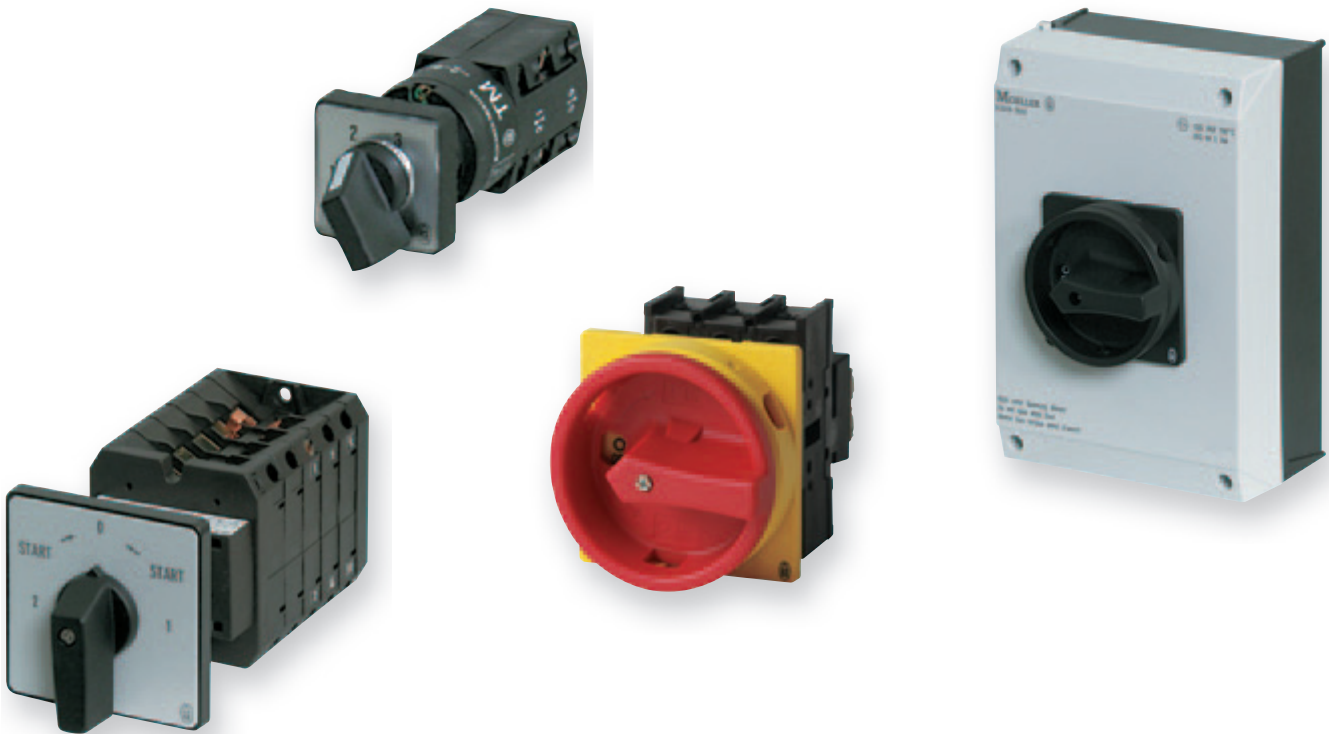


Cam switches T and switch disconnectors P



EAT•N

Powering Business Worldwide



T Cam switches

P Switch-disconnectors up to 315 A

The high performance and robust cam switch and switch-disconnector are used in industry, manual applications and building services management. Ten basic switch types in four different construction types can be selected in a multitude of standard contact sequences and a wide performance range.



T/TM Cam switches

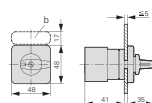
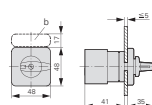
Performance up to 10/132 kW +++ Non-standard switches possible (see Online Catalog) +++ Several construction types

P switch-disconnectors

Performance up to 110 kW and 315 A +++ Switches up to 100 A (P1, P3) in housing IP65 +++ Four construction types

Switch for ATEX Zone 22

T Cam switches +++ Switch-disconnector up to 100 A (P1, P3) +++ IP65 Protection type



Cam switches, switch-disconnectors

Technical overview

Cam switches, switch-disconnectors	2
------------------------------------	---

System overview

Cam switches	4
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Description

Key to part numbers, modular system	8
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Ordering

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Switch-disconnectors – safety switches	30
Switch-disconnectors – changeover switches	32
Switch-disconnectors – reversing switches	38
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Switch-disconnectors – multi-speed switches	40
Control switches - step switches	42
Control switches - On-Off switches	46
Control switches - changeover switches, manual/automatic switches	48
Control switches – On switches	50
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Control switches - instrument switches	54
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Mini rotary switches

Technical overview

Mini rotary switches	2
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System overview

Mini rotary switches	68
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Ordering

Control circuit isolator, ON/OFF switches	60
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Locks, front plates	77
Non-standard switches	83

Technical data

Mini rotary switches	99
----------------------	----

Dimensions

Mini rotary switches	111
----------------------	-----

(Mini) cam switches, switch-disconnector

T, P, TM

Switch, basic type		Part no.	TM	T0	T3	T5B	
Max. motor rating			3.0 kW	6.5 kW	13 kW	22 kW	
AC-23 A, 400/415 V, 50/60 Hz							
Max. rated operational current I _u			≤ 10 A	20 A	32 A	63 A	
Switch-disconnectors							
	Main switches, maintenance/manual override switches		–	→ 10	→ 10	→ 10	
	On-Off switches		→ 70	→ 22	→ 22	→ 22	
	Safety switches with warning label		–	–	–	→ 30	
	Changeover switches		–	→ 32	→ 32	→ 32	
	Reversing switch with 0 position		–	→ 38	→ 38	→ 38	
	Star-delta switches		–	→ 38	→ 38	→ 38	
	Reversing star-delta switches		–	→ 38	→ 38	→ 38	
	Multi-speed switch		–	→ 40	→ 40	→ 40	
	Reversing multi-speed switches		–	→ 40	→ 40	→ 40	
Control switch							
	Step switch		→ 72	→ 42	–	–	
	On-Off switches		–	→ 46	–	–	
	Changeover switches		→ 71	→ 48	–	–	
	Manual/Auto switches		→ 72	→ 48	–	–	
	Push button switch		–	→ 50	–	–	
	Universal control switches		–	→ 52	–	–	
	Coding switches		→ 76	→ 52	–	–	
	Series switches		–	→ 52	–	–	
	Instrument selector switches		–	→ 54	–	–	
	Group switches		→ 75	–	–	–	
	ON OFF button		→ 75	–	–	–	
	Reversing switch		→ 76	–	–	–	
Switches with interlocks							
	Panic switches without emergency switching off function		–	→ 56	–	–	
	On-Off switches without Emergency-Stop function		–	→ 56	–	–	
Non-standard switches			→ 83	→ 79	→ 80	→ 81	
Mounting form							
		Surface mounting	.../I...	–	✓	✓	✓
			ATEX 	–	✓	✓	✓
		Surface mounting main switches	.../I.../SVB...	–	✓	✓	✓
			ATEX 	–	✓	✓	✓
		Mounting	.../E...	✓	✓	✓	✓
		Flush mounting main switch	.../E(A)/SVB...	✓	✓	✓	✓
		Center mounting	.../EZ...	✓	✓	✓	–
		Rear mounting	.../Z...	–	✓	✓	✓
		Rear mounting main switches	.../V/SVB...	–	✓	✓	✓
		Service distribution board mounting	.../IVS...	✓	✓	–	–

(Mini) cam switches, switch-disconnector

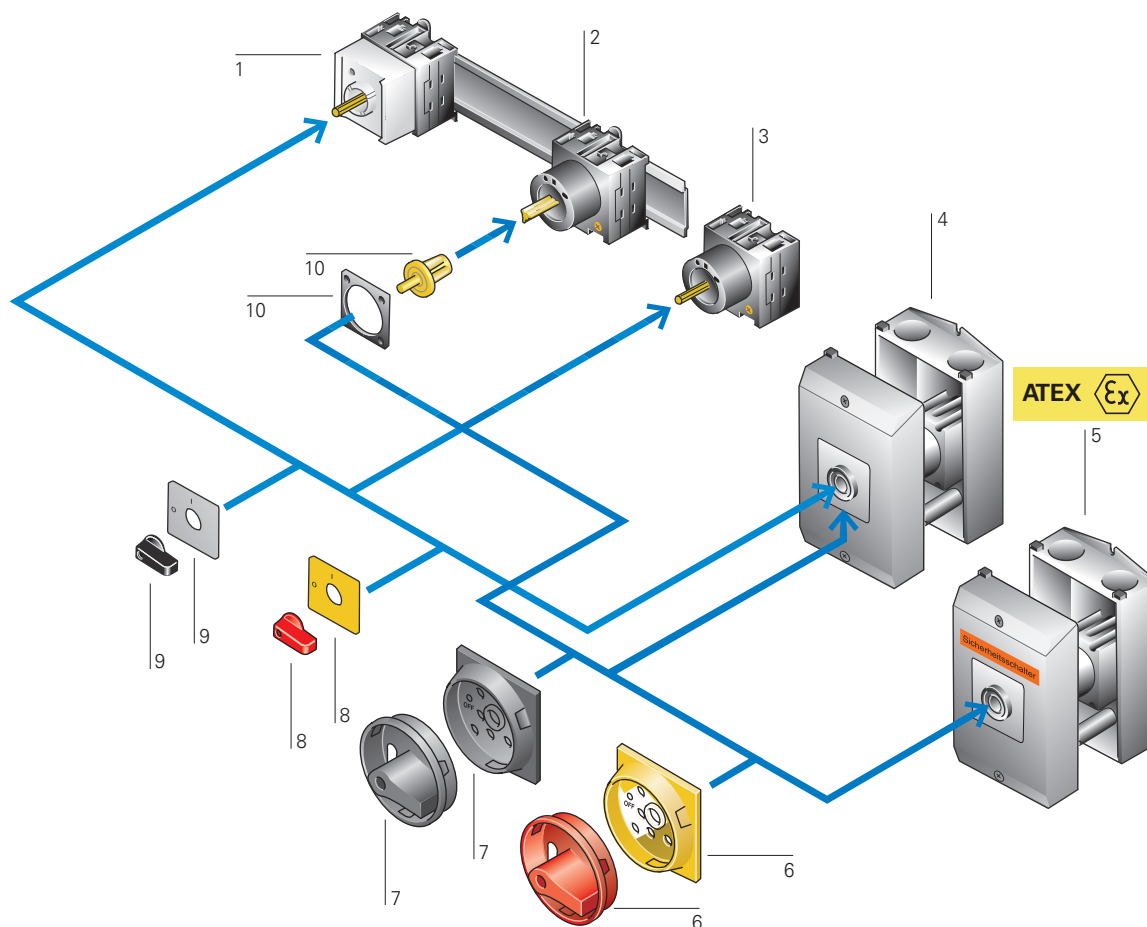
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Cam switches, switch-disconnectors

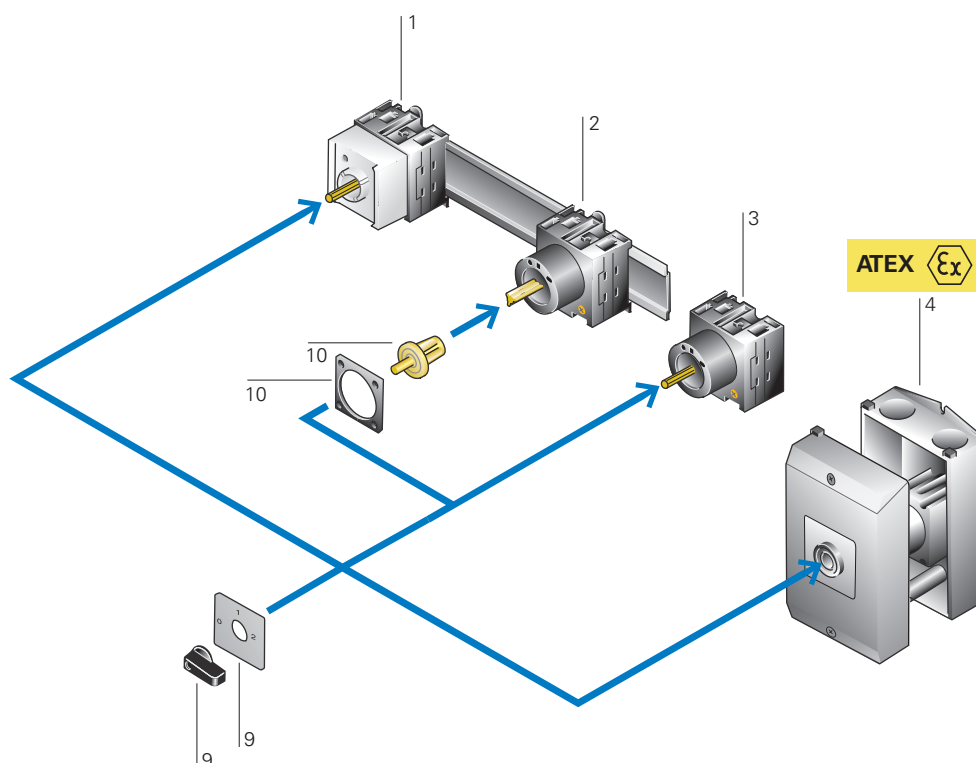
Cam switches

System overview

ON-OFF switches T0, T3, T5B, T5



Control switches T0, T3, T5B, T5

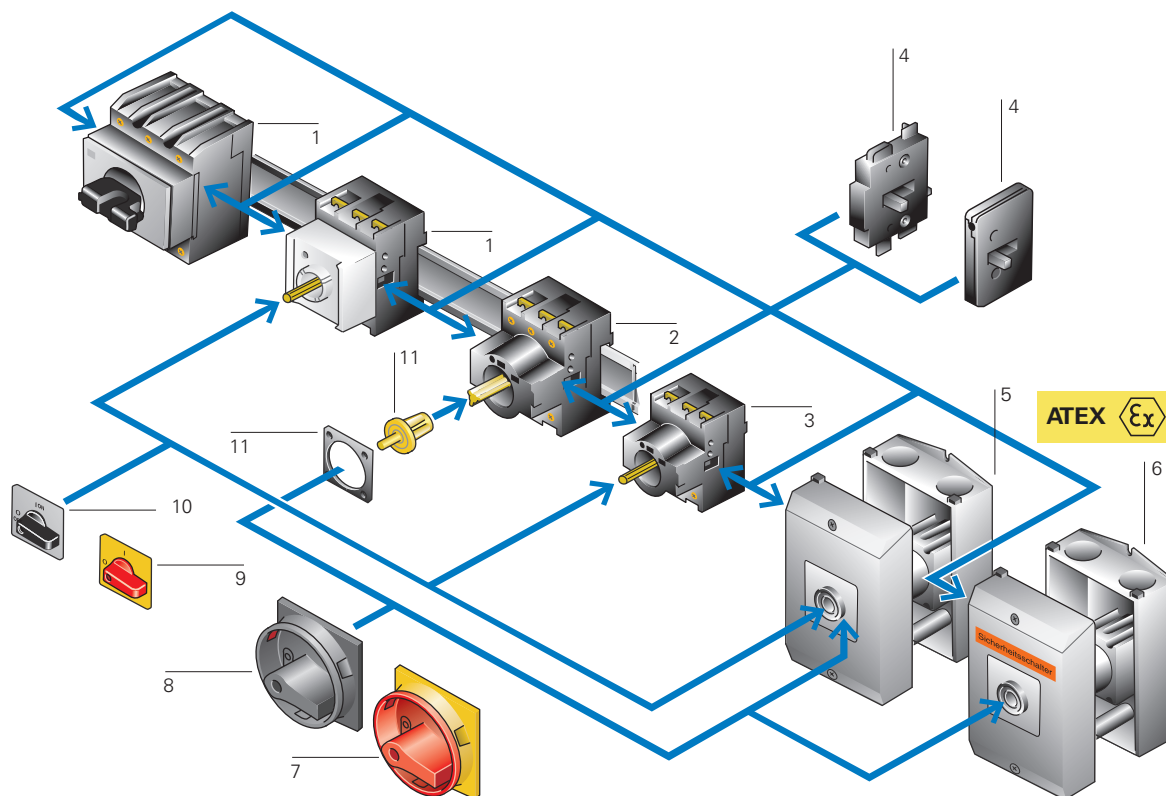


Service distribution board mounting (.../IVS) 1	Flush mounting main switch (.../EA/SVB) 3	Surface mounting main switch (.../I...) 4	Main switch (kit) for use as emergency switching off device 6
Front IP30	Front IP65	IP65	To IEC/EN 60204-1, VDE 0113 part 1
Can be snapped onto top-hat rail as per IEC/EN 60715 (only T0 and T3)	To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3,	To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3,	With red rotary handle and yellow locking collar
Mounting	For T0...: up to 8 contacts; For T3...: up to 12 contacts	For T0...: up to 8 contacts; For T3...: up to 10 contacts	Lockable in the 0 (Off) position
- In service distribution board up to 3 contact units (45 mm mounting depth) - In control panel up to 11 contact units	N and PE terminal	Position 0 lockable with 3 padlocks	→ Page 58
→ Page 22	→ Page 10	Enclosures for metric cable glands to EN 50262	Main switch (kit) 7
Rear mounting (.../Z) 2	Center mounting (.../EZ) 3	With an additional terminal	Black rotary handle and locking collar
Front IP65	Front IP65	→ Page 10	Lockable in the 0 position
Fixing: optionally with screw fixing or snap fitting, only T0 und T3	Mounted in Ø 22.3 fixing hole to IEC/EN 60947-5-1		→ Page 58
For snap fitting to IEC/EN 60715 top-hat rail	"One man mounting" by center fixing		Thumb-grip, for use as emergency switching off device 8
Drive coupling in door or cover	→ Page 22		To IEC/EN 60204-1, VDE 0113 part 1
Connection from front	Surface mounting (.../I...) 4		Red thumb-grip and yellow front plate
→ Page 22	IP65		→ Page 58
Rear mounting main switch (.../V/SVB) 2	totally insulated		Thumb-grip 9
Front IP65	With an additional terminal		Black thumb-grip with front plate
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3	Enclosures for metric cable glands to EN 50262		→ Page 58
For T0...: up to 8 contacts; For T3...: up to 12 contacts	→ Page 22		Coupling drive 10
With door interlock in "I" position			Including push-fit shaft
→ Page 10			For the retrofitting of switch T0(T3)-.../XZ as rear mounting, spare part for T0(T3)/(P1)-...Z
Flush mounting (.../E) 3			For the conversion of T5(B).../E flush mounting switch to rear mounting, spare part for T5(B)/(P3)-...Z
Front IP65			→ Page 65
Flush mounting and connection from rear			Note:
Terminals:			Cam switches T5 and T5B are only available with screw connections for fixing on a mounting plate.
Crosshead screwdriver Pozidrive			
T8 always with extension terminals			
→ Page 22			

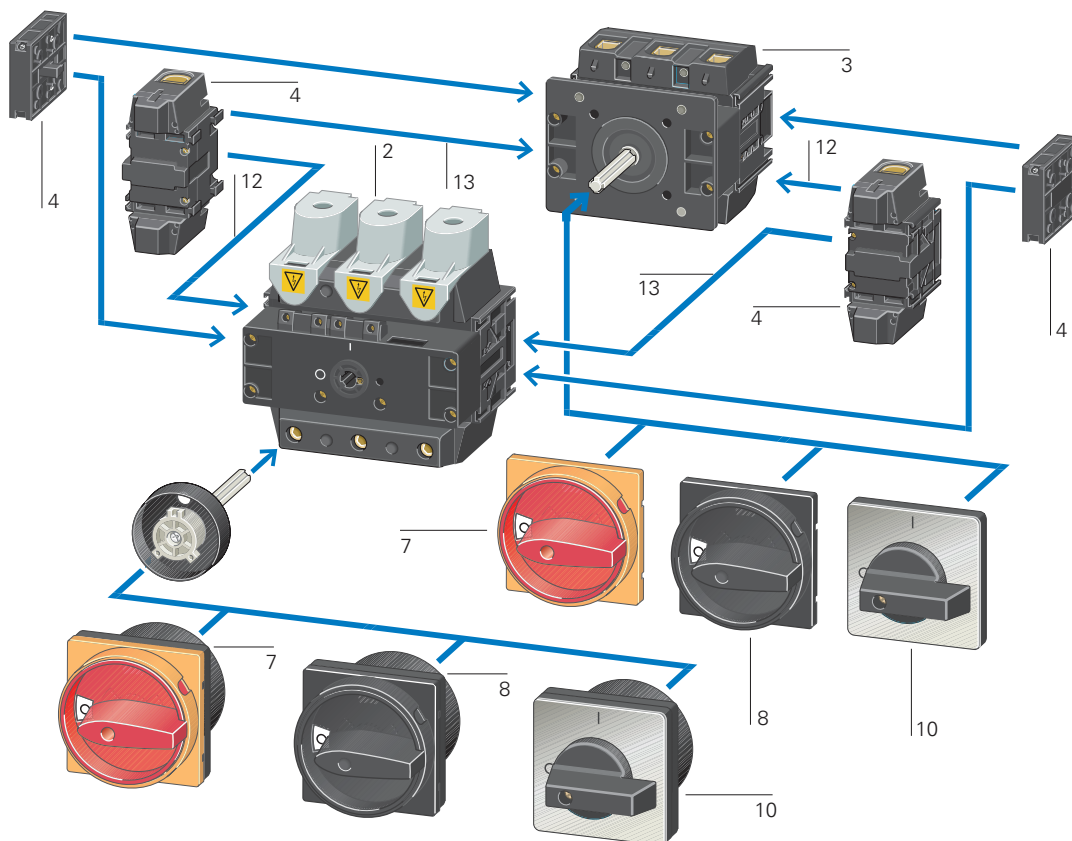
Cam switches, switch-disconnectors

Switch-disconnectors

ON-OFF switches P1, P3



ON OFF switches P5



Service distribution board mounting (.../IVS) 1	Flush mounting (.../E) 3	Surface mounting main switch (.../I...) 5	Main switch (kit) for use as emergency switching off device 7
Front IP30	Front IP65	IP65	To IEC/EN 60204-1, VDE 0113 Part 1
Fitting dimensions according to DIN 43880	Flush mounting and connection from rear		With red rotary handle and yellow locking collar
For snap fitting to top-hat rail according to IEC/EN 60715	Terminals: Crosshead screwdriver Pozidrive	With an additional terminal	Lockable in the 0 (Off) position
Space requirement	Back-of-hand proof	To IEC/ENEN 60204, VDE 0113 and IEC/EN 60947-3	→ Page 58
P1, 3 pole: 3 space units	2 add-on modules can be retrofitted	Position 0 lockable with 3 padlocks	Main switch (kit) 8
P3, 3 pole: 4 space units	→ Page 22	Installable add-on modules:	Black rotary handle and locking collar
P3-.../IVS lockable with padlock in "0" position	Flush mounting main switch (.../EA/SVB) 3	P1: HI 11-P1/P3 or N-P1..., P3: HI 11-P1/P3 and/or N-P5	Lockable in the 0 position
→ Page 22	Front IP65	Enclosures for metric cable glands to EN 50262	→ Page 58
Rear mounting (.../Z) 2	To IEC/ENEN 60204, VDE 0113 and IEC/EN 60947-3	→ Page 10	Thumb-grip, for use as emergency switching off device 9
Front IP65	N and PE terminal		To IEC/EN 60204-1, VDE 0113 Part 1
Fixing either by snap-on or screw fixing	Position 0 lockable with 3 padlocks		Red thumb-grip and yellow front plate
For snap fitting to top-hat rail according to IEC/EN 60715	2 add-on modules can be retrofitted	ATEX 	→ Page 58
Drive coupling in door or cover	→ Page 10	→ Page 58	Thumb-grip 10
Connection from front	Center mounting (.../EZ) 3	Safety switch (.../I...-SI) 6	Black thumb-grip with front plate
2 add-on modules can be retrofitted	Front IP65	IP65	→ Page 58
→ Page 22	Mounted in Ø 22.3 fixing hole to IEC/EN 60947-5-1		Coupling drive 11
Rear mounting main switch (.../V/SVB) 2	"One man mounting" by center fixing	With an additional terminal	Including push-fit shaft
Front IP65	→ Page 22	With cover fixing in 0 position	For retrofitting mounting switches T0(T3)-.../XZ as rear mounting design spare part for T0(T3)/(P1)-.../Z
To IEC/ENEN 60204, VDE 0113 and IEC/EN 60947-3	Add-on modules 4	Position 0 lockable with 3 padlocks	For converting flush mounting switches T5(B)-.../E into rear mounting switch spare part for T5(B)/(P3)-...Z
With door interlock in "I" position	Switchable N conductor (early-make N/O contact)	"Safety Switch" label; color: orange	→ Page 65
Maintenance key for commissioning or fault-finding	Auxiliary contacts	Enclosures for metric cable glands to EN 50262	Ground terminal 12
Position 0 lockable with 3 padlocks	Finger proof	→ Page 30	Front mounting, right
2 add-on modules can be retrofitted	Auxiliary N/O contact: Always connected as a load-shedding contact (late-make on, late-break off)	ATEX 	Service distribution board mounting, left
→ Page 10	→ Page 64	→ Page 58	Neutral terminal 13
	Surface mounting (.../I...) 5		Front mounting, left
	IP65		Service distribution board mounting, right
			→ Page 64
	With an additional terminal		
	Installable add-on modules:		
	P1: HI 11-P1/P3 or N-P1..., P3: HI 11-P1/P3 and/or N-P5		
	Enclosures for metric cable glands to EN 50262		
	→ Page 22		

Cam switches, switch-disconnectors

Description

Cam switches can be used for many switching and control applications. For example as ON-OFF switches, main switches, main/control switches, instrument switches.

The switches consist of a hand actuator, the switch unit and the mounting accessories.

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

Our "T Cam Switches" catalog has over 800 popular standard contact sequences (please request under K115D/F/GB, article no. 077643).

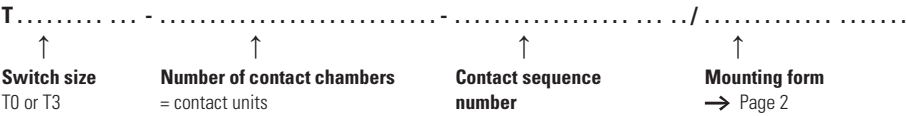
The following pages feature a selection of our standard contact sequences.

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

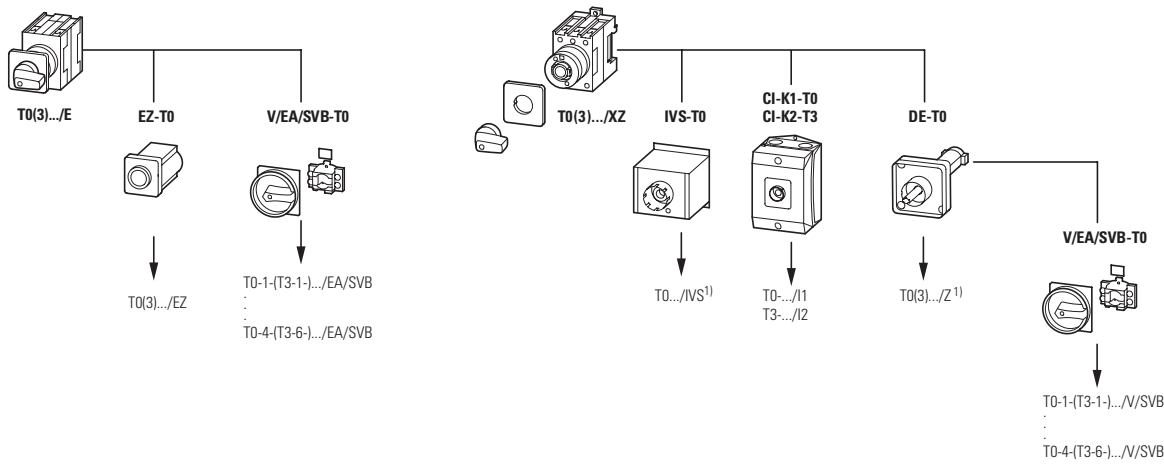
The CI-K... insulated enclosures are silicon and halogen free.

Cam switches T0 and T3

Key to part numbers

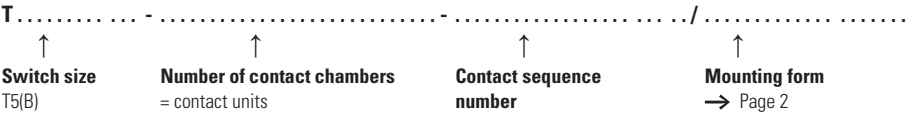


Using the modular system to convert the mounting form

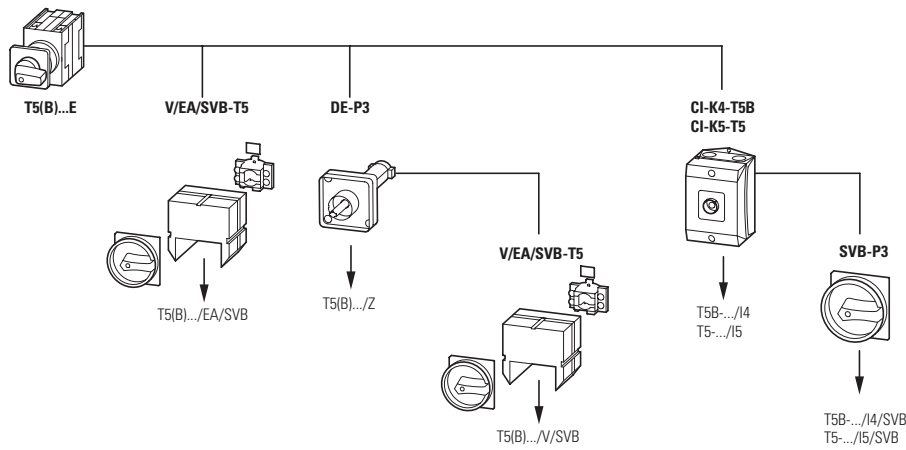


Cam switch TB5

Key to part numbers



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



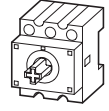
Note ¹⁾ Including shaft

Switch-disconnectors P1 and P3

Key to part numbers

P.....-...../.....-...../.....				
↑	↑	↑	↑	↑
Switch size P1 or P3	Rated uninterrupted current	Mounting form → Page 2	Part no. suffix (if required)	Accessories from → Page 7/47

Add-on functions due to modular system

				
3-pole basic unit .../E or .../Z	N-P...E or N-P...Z Switched neutral Can be fitted left or right (for P1.../I: left only)	HI 11-P1/P3E or HI 11-P1/P3Z Auxiliary contact Can be fitted left or right (for P1.../I: left only)	H-P... Terminal shroud can be fitted at top or bottom	UV-P... N + PE terminals, also as cover interlock on .../Z-switches.

TM mini cam switches

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

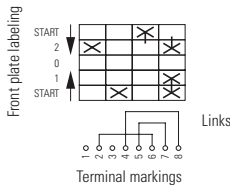
TM switches have consecutive terminal markings starting with 1.

Selection pages: Starting on → Page 7/54

Key to part numbers

TM.....-...../.....+.....			
↑	↑	↑	↑
Number of contact chambers = contact units	Contact sequence number	Mounting form → Page 2	Accessories → Page 7/59

Circuit representation



(see also ordering example in the electronic catalogue)

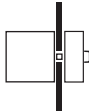
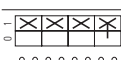
Switch from 0 to 1 Contact 1 – 2 open, Contact 3 – 4 open, Contact 5 – 6 open, Contact 7 – 8 closed	Switch from 1 to START with automatic return to 1 Contact 1 – 2 open, Contact 3 – 4 closed, Contact 5 – 6 open, Contact 7 – 8 remains closed	Switch from 1 to 0 Contact 1 – 2 open, Contact 3 – 4 open, Contact 5 – 6 open, Contact 7 – 8 open
Switch from 0 to 2 Contact 1 – 2 closed, Contact 3 – 4 open, Contact 5 – 6 open, Contact 7 – 8 closed	Switch from 2 to START with automatic return to 2 Contact 1 – 2 open, Contact 3 – 4 open, Contact 5 – 6 closes with early make, Contact 7 – 8 opens with late break	Switch from 2 to 0 Contact 1 – 2 open, Contact 3 – 4 open, Contact 5 – 6 open, Contact 7 – 8 open

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Ordering

T, P

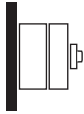
Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Part no. Article no.	Price See price list	Std. pack
		Pole N/O	N/O	400 V P k	I _u A	 Flush mounting Front IP65		
Main switch as emergency switching off/emergency stop device								
With red rotary handle and yellow locking collar To IEC/EN 60204-1, VDE 0113 Part 1 Lockable in the 0 (Off) position								
Without auxiliary contacts								
		1	0	0	6.5	20	T0-1-8200/EA/SVB 053110	1 Off  
					13	32	T3-1-8200/EA/SVB⁽¹⁾ 066576	1 Off  
					22	63	T5B-1-8200/EA/SVB⁽³⁾ 094279	1 Off  
		2	0	0	6.5	20	T0-1-102/EA/SVB⁽¹⁾ 091078	1 Off  
					13	32	T3-1-102/EA/SVB⁽¹⁾ 014374	1 Off  
					22	63	T5B-1-102/EA/SVB⁽³⁾ 094469	1 Off  
					30	100	T5-1-102/EA/SVB 098808	1 Off
		3	0	0	6.5	20	T0-2-1/EA/SVB⁽¹⁾ 038873	1 Off  
					13	25	P1-25/EA/SVB⁽¹⁾ 041097	1 Off  
					13	25		1 Off  
					15	32	P1-32/EA/SVB⁽¹⁾ 081438	1 Off  
					37	63	P3-63/EA/SVB⁽¹⁾ 031607	1 Off  
					45	125	P5-125/EA/SVB⁽⁴⁾ 280898	1 Off  
					50	100	P3-100/EA/SVB⁽¹⁾ 074320	1 Off  
					55	160	P5-160/EA/SVB⁽⁴⁾ 280922	1 Off  
					90	250	P5-250/EA/SVB⁽⁴⁾ 280936	1 Off  
					110	315	P5-315/EA/SVB⁽⁴⁾ 280950	1 Off  
		3 + N	0	0	6.5	20	T0-2-8900/EA/SVB⁽¹⁾ 207400	1 Off  
		3 + N	0	0	13	25	P1-25/EA/SVB/N⁽¹⁾ 081587	1 Off  
					13	25		1 Off  
					15	32	P1-32/EA/SVB/N⁽¹⁾ 091079	1 Off  
					15	32		1 Off  
					37	63	P3-63/EA/SVB/N⁽¹⁾ 010398	1 Off  
					45	125	P5-125/EA/SVB/N⁽⁴⁾ 280910	1 Off  
					50	100	P3-100/EA/SVB/N⁽¹⁾ 019890	1 Off  
					55	160	P5-160/EA/SVB/N⁽⁴⁾ 280924	1 Off  

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Surface mounting

IP65



Part no.
Article no.

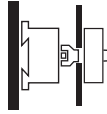
totally insulated

Price
See price
list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America

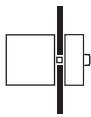
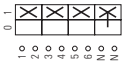
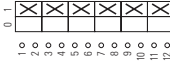
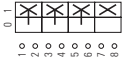
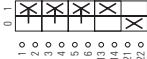
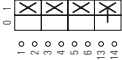


T0-1-8200/I1/SVB 207145	1 Off		T0-1-8200/V/SVB 057856	1 Off		1)	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
T3-1-8200/I2/SVB²⁾ 207200	1 Off		T3-1-8200/V/SVB¹⁾ 007255	1 Off			UL File No.	E36332
T5B-1-8200/I4/SVB³⁾ 207240	1 Off		T5B-1-8200/V/SVB³⁾ 094273	1 Off			UL CCN	NLRV
T0-1-102/I1/SVB 207143	1 Off		T0-1-102/V/SVB¹⁾ 095824	1 Off			CSA File No.	12528
T3-1-102/I2/SVB²⁾ 207198	1 Off		T3-1-102/V/SVB¹⁾ 019120	1 Off			CSA Class No.	3211-05
T5B-1-102/I4/SVB³⁾ 207238	1 Off		T5B-1-102/V/SVB³⁾ 094463	1 Off			NA Certification	UL Listed, CSA certified
T5-1-102/I5/SVB 207273	1 Off			1 Off			Suitable for	Branch circuits, suitable as motor disconnect
T0-2-1/I1/SVB 207147	1 Off		T0-2-1/V/SVB¹⁾ 043619	1 Off			Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
P1-25/I2/SVB²⁾ 207293	1 Off		P1-25/V/SVB²⁾ 055335	1 Off		2)	Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
P1-25/I2H/SVB 226900	1 Off			1 Off			UL File No.	E36332
P1-32/I2/SVB²⁾ 207314	1 Off		P1-32/V/SVB¹⁾ 095676	1 Off			UL CCN	NLRV
P3-63/I4/SVB¹⁾ 207343	1 Off		P3-63/V/SVB¹⁾ 048218	1 Off			CSA File No.	12528
			P5-125/V/SVB⁴⁾ 280914	1 Off			CSA Class No.	3211-05
P3-100/I5/SVB¹⁾ 207373	1 Off		P3-100/V/SVB¹⁾ 088558	1 Off			NA Certification	UL Listed, CSA certified
			P5-160/V/SVB⁴⁾ 280928	1 Off			Suitable for	Branch circuits, suitable as motor disconnect
			P5-250/V/SVB⁴⁾ 280942	1 Off			Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
			P5-315/V/SVB⁴⁾ 280956	1 Off		3)	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
T0-2-8900/I1/SVB 207151	1 Off		T0-2-8900/V/SVB¹⁾ 207405	1 Off			UL File No.	E36332
P1-25/I2/SVB/N²⁾ 207298	1 Off		P1-25/V/SVB/N²⁾ 086333	1 Off			UL CCN	NLRV7
P1-25/I2H/SVB/N 227860	1 Off			1 Off			CSA File No.	12528
P1-32/I2/SVB/N²⁾ 207319	1 Off		P1-32/V/SVB/N¹⁾ 095825	1 Off			CSA Class No.	3211-05
P1-32/I2H/SVB/N 227871	1 Off			1 Off			NA Certification	UL Listed, CSA certified
P3-63/I4/SVB/N¹⁾ 207349	1 Off		P3-63/V/SVB/N¹⁾ 015144	1 Off			Suitable for	Branch circuits, suitable as motor disconnect
			P5-125/V/SVB/N⁴⁾ 280916	1 Off			Degree of Protection	IEC: IP65; UL/CSA Type 1, 3R, 12, 13
P3-100/I5/SVB/N¹⁾ 207379	1 Off		P3-100/V/SVB/N¹⁾ 024636	1 Off		4)	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
			P5-160/V/SVB/N⁴⁾ 280930	1 Off			UL File No.	E36332
				1 Off			UL CCN	NLRV, NLRV7
				1 Off			CSA File No.	223805
				1 Off			CSA Class No.	3211-05
				1 Off			NA Certification	UL Listed, CSA certified
				1 Off			Suitable for	Branch circuits, suitable as motor disconnect
				1 Off			Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

T, P

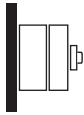
Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
	 FS 908	Pole N/O	N/O	N/C	400 V P kW	 I _u A			
Main switch as emergency switching off/emergency stop device									
With red rotary handle and yellow locking collar To IEC/EN 60204-1, VDE 0113 Part 1 Lockable in the 0 (Off) position									
Without auxiliary contacts									
		3 + N	0	0	90	250	P5-250/EA/SVB/N⁽⁴⁾ 280938	1 Off	 
		3 + N	0	0	110	315	P5-315/EA/SVB/N⁽⁴⁾ 280952	1 Off	 
		6	0	0	6.5	20	T0-3-8342/EA/SVB⁽¹⁾ 029382	1 Off	 
					13	32	T3-3-8342/EA/SVB⁽¹⁾ 071326	1 Off	 
					22	63	T5B-3-8342/EA/SVB⁽³⁾ 092308	1 Off	 
					30	100	T5-3-8342/EA/SVB 096383	1 Off	
		8	0	0	6.5	20	T0-4-8344/EA/SVB⁽¹⁾ 008267	1 Off	 
					13	32	T3-4-8344/EA/SVB⁽¹⁾ 008964	1 Off	 
					22	63	T5B-4-8344/EA/SVB⁽³⁾ 092062	1 Off	 
					30	95			
					30	100	T5-4-8344/EA/SVB 095961	1 Off	
With auxiliary contacts									
		3	1	0	6.5	20	T0-2-15679/EA/SVB⁽¹⁾ 081588	1 Off	 
		3	1	1	13	25	P1-25/EA/SVB/HI11⁽¹⁾ 091080	1 Off	 
					13	25		1 Off	 
					15	32	P1-32/EA/SVB/HI11⁽¹⁾ 072567	1 Off	 
					15	32		1 Off	 
					37	63	P3-63/EA/SVB/HI11⁽¹⁾ 019891	1 Off	 
					50	100	P3-100/EA/SVB/HI11⁽¹⁾ 029383	1 Off	 
		3	1	0	45	125	P5-125/EA/SVB/HI10⁽⁴⁾ 280899	1 Off	 
					55	160	P5-160/EA/SVB/HI10⁽⁴⁾ 280923	1 Off	 
					90	250	P5-250/EA/SVB/HI10⁽⁴⁾ 280937	1 Off	 
					110	315	P5-315/EA/SVB/HI10⁽⁴⁾ 280951	1 Off	 

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Surface mounting

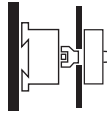
IP65



totally insulated

Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America

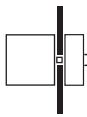
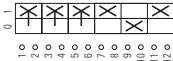
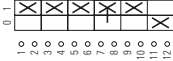
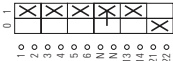
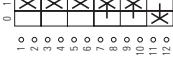
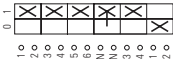
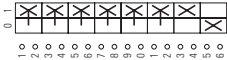
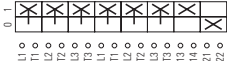
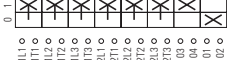


			P5-250/V/SVB/N⁽⁴⁾ 280944	1 Off		1)	
			P5-315/V/SVB/N⁽⁴⁾ 280958	1 Off		Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
T0-3-8342/I1/SVB 207159	1 Off		T0-3-8342/V/SVB⁽¹⁾ 034128	1 Off		UL File No.	E36332
T3-3-8342/I2/SVB⁽²⁾ 207208	1 Off		T3-3-8342/V/SVB⁽¹⁾ 076072	1 Off		UL CCN	NLRV
T5B-3-8342/I4/SVB⁽³⁾ 207242	1 Off		T5B-3-8342/V/SVB⁽³⁾ 092300	1 Off		CSA File No.	12528
						CSA Class No.	3211-05
						NA Certification	UL Listed, CSA certified
						Suitable for	Branch circuits, suitable as motor disconnect
T5-3-8342/I5/SVB 207279	1 Off		T5-3-8342/V/SVB 096381	1 Off		Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
T0-4-8344/I1/SVB 207163	1 Off		T0-4-8344/V/SVB⁽¹⁾ 014007	1 Off			
T3-4-8344/I2/SVB⁽²⁾ 207212	1 Off		T3-4-8344/V/SVB⁽¹⁾ 020598	1 Off		2)	
T5B-4-8344/I4/SVB⁽³⁾ 207248	1 Off		T5B-4-8344/V/SVB⁽³⁾ 092056	1 Off		Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
T5-4-8344/I5/SVB 207283	1 Off					UL File No.	E36332
			T5-4-8344/V/SVB 095959	1 Off		UL CCN	NLRV
						CSA File No.	12528
						CSA Class No.	3211-05
						NA Certification	UL Listed, CSA certified
						Suitable for	Branch circuits, suitable as motor disconnect
						Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
T0-2-15679/I1/SVB 207149	1 Off		T0-2-15679/V/SVB⁽¹⁾ 086334	1 Off			
P1-25/I2/SVB/HI11⁽²⁾ 207297	1 Off		P1-25/V/SVB/HI11⁽¹⁾ 095826	1 Off		3)	
P1-25/I2H/SVB/HI11 226902	1 Off			1 Off		Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
P1-32/I2/SVB/HI11⁽¹⁾ 207318	1 Off		P1-32/V/SVB/HI11⁽¹⁾ 015145	1 Off		UL File No.	E36332
P1-32/I2H/SVB/HI11 227870	1 Off			1 Off		UL CCN	NLRV7
P3-63/I4/SVB/HI11⁽¹⁾ 207348	1 Off		P3-63/V/SVB/HI11⁽¹⁾ 024637	1 Off		CSA File No.	12528
P3-100/I5/SVB/HI11⁽¹⁾ 207378	1 Off		P3-100/V/SVB/HI11⁽¹⁾ 034129	1 Off		CSA Class No.	3211-05
			P5-125/V/SVB/HI10⁽⁴⁾ 280915	1 Off		NA Certification	UL Listed, CSA certified
			P5-160/V/SVB/HI10⁽⁴⁾ 280929	1 Off		Suitable for	Branch circuits, suitable as motor disconnect
			P5-250/V/SVB/HI10⁽⁴⁾ 280943	1 Off		Degree of Protection	IEC: IP65; UL/CSA Type 1, 3R, 12, 13
			P5-315/V/SVB/HI10⁽⁴⁾ 280957	1 Off		4)	
						Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
						UL File No.	E36332
						UL CCN	NLRV, NLRV7
						CSA File No.	223805
						CSA Class No.	3211-05
						NA Certification	UL Listed, CSA certified
						Suitable for	Branch circuits, suitable as motor disconnect
						Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

T, P

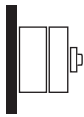
Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
	 FS 908	Pole N/O	N/O	N/C	400 V P kW	 I _u A			
Main switch as emergency switching off/emergency stop device									
With red rotary handle and yellow locking collar To IEC/EN 60204-1, VDE 0113 Part 1 Lockable in the 0 (Off) position									
With auxiliary contacts									
		3	2	1	6.5	20	T0-3-15683/EA/SVB¹⁾ 015571	1 Off	 
		3	2	1	13	32	T3-3-15683/EA/SVB¹⁾ 040478	1 Off	 
		3 + N	1	1	6.5	20	T0-3-15680/EA/SVB¹⁾ 038875	1 Off	 
					13	32	P1-25/EA/SVB/N/HI11¹⁾ 048367	1 Off	 
					13	32	T3-3-15680/EA/SVB¹⁾ 012002	1 Off	 
		3 + N	1	1	15	32	P1-32/EA/SVB/N/HI11¹⁾ 057859	1 Off	 
		3 + N	1	1	6.5	20	T0-3-8901/EA/SVB¹⁾ 231932	1 Off	 
					13	32	T3-3-8901/EA/SVB¹⁾ 231945	1 Off	 
					22	63	T5B-3-8901/EA/SVB³⁾ 207420	1 Off	 
					30	100	T5-3-8901/EA/SVB 207408	1 Off	
		3 + N	1	1	37	63	P3-63/EA/SVB/N/HI11¹⁾ 067351	1 Off	 
		3 + N	1	1	50	100	P3-100/EA/SVB/N/HI11¹⁾ 076843	1 Off	 
		6	1	1	6.5	20	T0-4-15682/EA/SVB¹⁾ 019892	1 Off	 
					13	32	T3-4-15682/EA/SVB¹⁾ 054716	1 Off	 
					22	63	T5B-4-15682/EA/SVB³⁾ 207425	1 Off	 
					30	100	T5-4-15682/EA/SVB 207413	1 Off	 
		6	1	1	55	160			
		6	1	1	132	275			

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Surface mounting

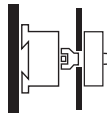
IP65



totally insulated

Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America

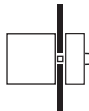
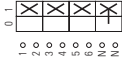


T0-3-15683/I1/SVB 207157	1 Off		T0-3-15683/V/SVB¹⁾ 015634	1 Off		1) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T3-3-15683/I2/SVB²⁾ 207206	1 Off		T3-3-15683/V/SVB¹⁾ 045224	1 Off			
T0-3-15680/I1/SVB 207153	1 Off		T0-3-15680/V/SVB¹⁾ 043621	1 Off			
			P1-25/V/SVB/N/HI11¹⁾ 053113	1 Off			
T3-3-15680/I2/SVB²⁾ 207202	1 Off		T3-3-15680/V/SVB¹⁾ 016748	1 Off		2) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
			P1-32/V/SVB/N/HI11¹⁾ 062605	1 Off			
T0-3-8901/I1/SVB 231934	1 Off						
T3-3-8901/I2/SVB²⁾ 218987	1 Off						
T5B-3-8901/I4/SVB³⁾ 207244	1 Off		T5B-3-8901/V/SVB³⁾ 207422	1 Off		3) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T5-3-8901/I5/SVB 207277	1 Off						
P3-63/I4/SVB/N/HI11¹⁾ 207350	1 Off		P3-63/V/SVB/N/HI11¹⁾ 072097	1 Off			
P3-100/I5/SVB/N/HI11¹⁾ 207380	1 Off		P3-100/V/SVB/N/HI11¹⁾ 081589	1 Off			
T0-4-15682/I1/SVB 207161	1 Off		T0-4-15682/V/SVB¹⁾ 024638	1 Off		3) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV7 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 1, 3R, 12, 13
T3-4-15682/I2/SVB²⁾ 207210	1 Off		T3-4-15682/V/SVB¹⁾ 059462	1 Off			
T5B-4-15682/I4/SVB³⁾ 207246	1 Off		T5B-4-15682/V/SVB³⁾ 207427	1 Off			
T5-4-15682/I5/SVB 207281	1 Off		T5-4-15682/V/SVB 207415	1 Off		Notes ⁵⁾ Enclosure without flanges with K95/1N/BR ⁶⁾ With KS4-CI and K150/1/BR: Ingress protection IP64	
T6-160-6/I45/SVB/HI11⁵⁾ 201448	1 Off		T6-160-6/V/SVB/HI11 200619	1 Off			
T8-3-8342/I48/SVB/HI11⁶⁾ 201450	1 Off		T8-3-8342/V/SVB/HI11 200620	1 Off			

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

T, P

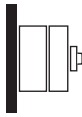
Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65 	Part no. Article no.	Price See price list	Std. pack
	 FS 908	Pole N/O	N/O	N/C	400 V P kW	I _u A			
Main switch without emergency switching off/emergency stop function									
With black rotary handle and locking collar Lockable in the 0 (Off) position									
Without auxiliary contacts									
	1	0	0	6.5	20	T0-1-8200/EA/SVB-SW⁽¹⁾ 055483	1 Off	 	
				13	32	T3-1-8200/EA/SVB-SW⁽¹⁾ 068949	1 Off	 	
				22	63	T5B-1-8200/EA/SVB-SW⁽³⁾ 094278	1 Off	 	
	2	0	0	6.5	20	T0-1-102/EA/SVB-SW⁽¹⁾ 093451	1 Off	 	
				13	32	T3-1-102/EA/SVB-SW⁽¹⁾ 016747	1 Off	 	
				22	63	T5B-1-102/EA/SVB-SW⁽³⁾ 094468	1 Off	 	
				30	100	T5-1-102/EA/SVB-SW 098807	1 Off		
	3	0	0	6.5	20	T0-2-1/EA/SVB-SW⁽¹⁾ 041246	1 Off	 	
				13	25	P1-25/EA/SVB-SW⁽¹⁾ 048365	1 Off	 	
				13	25		1 Off	 	
				15	32	P1-32/EA/SVB-SW⁽¹⁾ 053111	1 Off	 	
				15	32		1 Off	 	
				37	63	P3-63/EA/SVB-SW⁽¹⁾ 057857	1 Off	 	
				50	100	P3-100/EA/SVB-SW⁽¹⁾ 062603	1 Off	 	
				45	125	P5-125/EA/SVB-SW⁽⁴⁾ 280911	1 Off	 	
				55	160	P5-160/EA/SVB-SW⁽⁴⁾ 280925	1 Off	 	
				90	250	P5-250/EA/SVB-SW⁽⁴⁾ 280939	1 Off	 	
	3 + N	0	0	6.5	20	T0-2-8900/EA/SVB-SW⁽¹⁾ 207401	1 Off	 	
				13	25	P1-25/EA/SVB-SW/N⁽¹⁾ 083960	1 Off	 	
				13	25		1 Off	 	
				15	32	P1-32/EA/SVB-SW/N⁽¹⁾ 093452	1 Off	 	
				15	32		1 Off	 	
				15	32		1 Off	 	
				37	63	P3-63/EA/SVB-SW/N⁽¹⁾ 012771	1 Off	 	
				50	100	P3-100/EA/SVB-SW/N⁽¹⁾ 022263	1 Off	 	

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Surface mounting

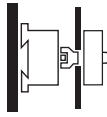
IP65



totally insulated

Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America

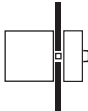
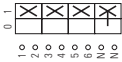
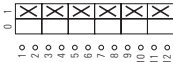
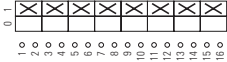
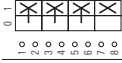
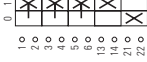
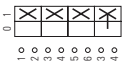
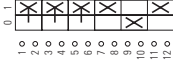


T0-1-8200/11/SVB-SW 207146	1 Off	T0-1-8200/V/SVB-SW¹⁾ 060229	1 Off	1) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection IEC: IP65; UL/CSA Type 3R, 12
T3-1-8200/12/SVB-SW²⁾ 207201	1 Off	T3-1-8200/V/SVB-SW¹⁾ 004882	1 Off	
T5B-1-8200/14/SVB-SW³⁾ 207241	1 Off		1 Off	
T0-1-102/11/SVB-SW 207144	1 Off	T0-1-102/V/SVB-SW¹⁾ 022330	1 Off	
T3-1-102/12/SVB-SW²⁾ 207199	1 Off	T3-1-102/V/SVB-SW¹⁾ 021493	1 Off	
T5B-1-102/14/SVB-SW³⁾ 207239	1 Off	T5B-1-102/V/SVB-SW³⁾ 094462	1 Off	
T0-2-1/11/SVB-SW 207148	1 Off	T0-2-1/V/SVB-SW¹⁾ 045992	1 Off	2) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
P1-25/12/SVB-SW²⁾ 207294	1 Off	P1-25/V/SVB-SW²⁾ 050738	1 Off	
P1-25/12H/SVB-SW 227861	1 Off		1 Off	
P1-32/12/SVB-SW²⁾ 207315	1 Off	P1-32/V/SVB-SW¹⁾ 055484	1 Off	
P1-32/12H/SVB-SW 227872	1 Off		1 Off	
P3-63/14/SVB-SW¹⁾ 207344	1 Off	P3-63/V/SVB-SW¹⁾ 060230	1 Off	
P3-100/15/SVB-SW¹⁾ 207374	1 Off	P3-100/V/SVB-SW¹⁾ 064976	1 Off	3) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV7 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 1, 3R, 12, 13
		P5-125/V/SVB-SW⁴⁾ 280917	1 Off	
		P5-160/V/SVB-SW⁴⁾ 280931	1 Off	
		P5-250/V/SVB-SW⁴⁾ 280945	1 Off	
		P5-315/V/SVB-SW⁴⁾ 280959	1 Off	
T0-2-8900/11/SVB-SW 207152	1 Off	T0-2-8900/V/SVB-SW¹⁾ 207406	1 Off	
P1-25/12/SVB-SW/N²⁾ 207296	1 Off	P1-25/V/SVB-SW/N¹⁾ 088706	1 Off	4) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV, NLRV7 223805 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
P1-25/12H/SVB-SW/N 227863	1 Off		1 Off	
P1-32/12/SVB-SW/N²⁾ 207317	1 Off	P1-32/V/SVB-SW/N¹⁾ 098198	1 Off	
P1-32/12H/SVB-SW/N 227874	1 Off		1 Off	
P1-32/12H/N 227869	1 Off		1 Off	
P3-63/14/SVB-SW/N¹⁾ 207346	1 Off	P3-63/V/SVB-SW/N¹⁾ 017517	1 Off	
P3-100/15/SVB-SW/N¹⁾ 207376	1 Off	P3-100/V/SVB-SW/N¹⁾ 027009	1 Off	

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

T, P

Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
	 FS 908	Pole N/O	N/O N/C	400 V P kW	I _u A				
Main switch without emergency switching off/emergency stop function									
With black rotary handle and locking collar Lockable in the 0 (Off) position									
Without auxiliary contacts									
		3 + N	0 0	45	125		P5-125/EA/SVB-SW/N⁽⁴⁾ 280913	1 Off	
				55	160		P5-160/EA/SVB-SW/N⁽⁴⁾ 280927	1 Off	
				90	250		P5-250/EA/SVB-SW/N⁽⁴⁾ 280941	1 Off	
				110	315		P5-315/EA/SVB-SW/N⁽⁴⁾ 280955	1 Off	
		6	0 0	6.5	20		T0-3-8342/EA/SVB-SW⁽¹⁾ 031755	1 Off	
				13	32		T3-3-8342/EA/SVB-SW⁽¹⁾ 073699	1 Off	
				22	63		T5B-3-8342/EA/SVB-SW⁽³⁾ 092307	1 Off	
				30	100		T5-3-8342/EA/SVB-SW 096382	1 Off	
		8	0 0	6.5	20		T0-4-8344/EA/SVB-SW⁽¹⁾ 008268	1 Off	
				13	32		T3-4-8344/EA/SVB-SW⁽¹⁾ 008965	1 Off	
				22	63		T5B-4-8344/EA/SVB-SW⁽³⁾ 092061	1 Off	
				30	95				
				30	100		T5-4-8344/EA/SVB-SW 095960	1 Off	
With auxiliary contacts									
		3	1 0	6.5	20		T0-2-15679/EA/SVB-SW⁽¹⁾ 083961	1 Off	
		3	1 1	13	25		P1-25/EA/SVB-SW/HI11⁽¹⁾ 070194	1 Off	
				13	25			1 Off	
				13	25			1 Off	
				15	32		P1-32/EA/SVB-SW/HI11⁽¹⁾ 012772	1 Off	
				15	32			1 Off	
				37	63		P3-63/EA/SVB-SW/HI11⁽¹⁾ 022264	1 Off	
				50	100		P3-100/EA/SVB-SW/HI11⁽¹⁾ 031756	1 Off	
		3	1 0	45	125		P5-125/EA/SVB-SW/HI10⁽⁴⁾ 280912	1 Off	
				55	160		P5-160/EA/SVB-SW/HI10⁽⁴⁾ 280926	1 Off	
				90	250		P5-250/EA/SVB-SW/HI10⁽⁴⁾ 280940	1 Off	
				110	315		P5-315/EA/SVB-SW/HI10⁽⁴⁾ 280954	1 Off	
		3	2 1	6.5	20		T0-3-15683/EA/SVB-SW⁽¹⁾ 015600	1 Off	
				13	32		T3-3-15683/EA/SVB-SW⁽¹⁾ 042851	1 Off	

Switch-disconnectors – main switches, maintenance/manual override switches

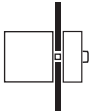
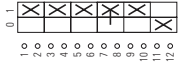
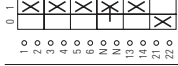
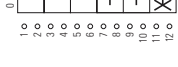
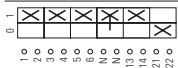
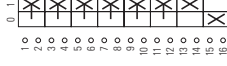
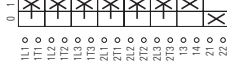
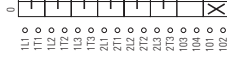


		P5-125/V/SVB-SW/N⁽⁴⁾ 280919	1 Off  	1)
		P5-160/V/SVB-SW/N⁽⁴⁾ 280933	1 Off  	Product Standards
		P5-250/V/SVB-SW/N⁽⁴⁾ 280947	1 Off  	UL File No. UL CCN
		P5-315/V/SVB-SW/N⁽⁴⁾ 280961	1 Off  	CSA File No. CSA Class No. NA Certification Suitable for
T0-3-8342/I1/SVB-SW 207160	1 Off	T0-3-8342/N/SVB-SW⁽¹⁾ 036501	1 Off  	UL Listed, CSA certified Branch circuits, suitable as motor disconnect
T3-3-8342/I2/SVB-SW⁽²⁾ 207209	1 Off  	T3-3-8342/N/SVB-SW⁽¹⁾ 078445	1 Off  	Degree of Protection
T5B-3-8342/I4/SVB-SW⁽³⁾ 207243	1 Off  	T5B-3-8342/V/SVB-SW⁽³⁾ 092299	1 Off  	2)
T5-3-8342/I5/SVB-SW 207280	1 Off	T5-3-8342/V/SVB-SW 096380	1 Off	Product Standards
T0-4-8344/I1/SVB-SW 207164	1 Off	T0-4-8344/V/SVB-SW⁽¹⁾ 008272	1 Off  	UL File No. UL CCN
T3-4-8344/I2/SVB-SW⁽²⁾ 207213	1 Off  	T3-4-8344/V/SVB-SW⁽¹⁾ 008967	1 Off  	CSA File No. CSA Class No.
T5B-4-8344/I4/SVB-SW⁽³⁾ 207249	1 Off  	T5B-4-8344/V/SVB-SW⁽³⁾ 092055	1 Off  	NA Certification Suitable for
T5-4-8344/I5/SVB-SW 207284	1 Off			Degree of Protection
		T5-4-8344/V/SVB-SW 095958	1 Off	UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T0-2-15679/I1/SVB-SW 207150	1 Off	T0-2-15679/V/SVB-SW⁽¹⁾ 088707	1 Off  	3)
P1-25/I2/SVB-SW/HI11⁽²⁾ 207295	1 Off  	P1-25/V/SVB-SW/HI11⁽¹⁾ 098199	1 Off  	Product Standards
P1-25/I2H/SVB-SW/HI11 227862	1 Off		1 Off  	UL File No. UL CCN
P1-25/I2H/SVB/HI11 226902	1 Off		1 Off  	CSA File No. CSA Class No.
P1-32/I2/SVB-SW/HI11⁽¹⁾ 207316	1 Off  	P1-32/V/SVB-SW/HI11⁽¹⁾ 017518	1 Off  	NA Certification Suitable for
P1-32/I2H/SVB-SW/HI11 227873	1 Off		1 Off  	Degree of Protection
P3-63/I4/SVB-SW/HI11⁽¹⁾ 207345	1 Off  	P3-63/V/SVB-SW/HI11⁽¹⁾ 027010	1 Off  	4)
P3-100/I5/SVB-SW/HI11⁽¹⁾ 207375	1 Off  	P3-100/V/SVB-SW/HI11⁽¹⁾ 036502	1 Off  	Product Standards
		P5-125/V/SVB-SW/HI10⁽⁴⁾ 280918	1 Off  	UL File No. UL CCN
		P5-160/V/SVB-SW/HI10⁽⁴⁾ 280932	1 Off  	CSA File No. CSA Class No.
		P5-250/V/SVB-SW/HI10⁽⁴⁾ 280946	1 Off  	NA Certification Suitable for
		P5-315/V/SVB-SW/HI10⁽⁴⁾ 280960	1 Off  	Degree of Protection
T0-3-15683/I1/SVB-SW 207158	1 Off	T0-3-15683/V/SVB-SW⁽¹⁾ 015664	1 Off  	UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T3-3-15683/I2/SVB-SW⁽²⁾ 207207	1 Off  			

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

T, P

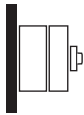
Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
	 FS 908	Pole N/O	N/O	N/C	400 V P kW	 I _u A			
Main switch without emergency switching off/emergency stop function									
With black rotary handle and locking collar Lockable in the 0 (Off) position									
With auxiliary contacts									
		3 + N	1	1	6.5	20	T0-3-15680/EA/SVB-SW⁽¹⁾ 041248	1 Off	 
					13	32	P1-25/EA/SVB-SW/N/HI11⁽¹⁾ 050740	1 Off	 
					13	32	T3-3-8901/EA/SVB-SW⁽¹⁾ 231946	1 Off	 
		3 + N	1	1	15	32	P1-32/EA/SVB-SW/N/HI11⁽¹⁾ 060232	1 Off	 
		3 + N	1	1	6.5	20	T0-3-8901/EA/SVB-SW⁽¹⁾ 231933	1 Off	 
					13	32	T3-3-15680/EA/SVB-SW⁽¹⁾ 014375	1 Off	 
					22	63	T5B-3-8901/EA/SVB-SW⁽³⁾ 207421	1 Off	 
					30	100	T5-3-8901/EA/SVB-SW 207409	1 Off	
		3 + N	1	1	37	63	P3-63/EA/SVB-SW/N/HI11⁽¹⁾ 069724	1 Off	 
					50	100	P3-100/EA/SVB-SW/N/HI11⁽¹⁾ 079216	1 Off	 
		6	1	1	6.5	20	T0-4-15682/EA/SVB-SW⁽¹⁾ 022265	1 Off	 
					13	32	T3-4-15682/EA/SVB-SW⁽¹⁾ 057089	1 Off	 
					22	63	T5B-4-15682/EA/SVB-SW⁽³⁾ 207426	1 Off	 
					30	100	T5-4-15682/EA/SVB-SW 207414	1 Off	
		6	1	1	55	160			
		6	1	1	132	275			
					132	315			

Cam switches, switch-disconnectors

Switch-disconnectors – main switches, maintenance/manual override switches

Surface mounting

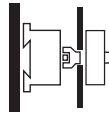
IP65



totally insulated

Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America



T0-3-15680/I1/SVB-SW 207154	1 Off	T0-3-15680/V/SVB-SW¹⁾ 045994	1 Off	1) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T3-3-15680/I2/SVB-SW⁴⁾ 207203	1 Off	T3-3-15680/V/SVB-SW¹⁾ 019121	1 Off		
		P1-32/V/SVB-SW/N/HI11¹⁾ 064978	1 Off		
T0-3-8901/I1/SVB-SW 231935	1 Off		1 Off	2) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T3-3-8901/I2/SVB-SW²⁾ 218988	1 Off	P1-25/V/SVB-SW/N/HI11¹⁾ 055486	1 Off		
T5B-3-8901/I4/SVB-SW³⁾ 207245	1 Off	T5B-3-8901/V/SVB-SW³⁾ 207423	1 Off		
T5-3-8901/I5/SVB-SW 207278	1 Off		1 Off	3) Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV7 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 1, 3R, 12, 13
P3-63/I4/SVB-SW/N/HI11¹⁾ 207347	1 Off	P3-63/V/SVB-SW/N/HI11¹⁾ 074470	1 Off		
P3-100/I5/SVB-SW/N/HI11¹⁾ 207377	1 Off	P3-100/V/SVB-SW/N/HI11¹⁾ 083962	1 Off		
T0-4-15682/I1/SVB-SW 207162	1 Off	T0-4-15682/V/SVB-SW¹⁾ 027011	1 Off		
T3-4-15682/I2/SVB-SW²⁾ 207211	1 Off	T3-4-15682/V/SVB-SW¹⁾ 061835	1 Off		
T5B-4-15682/I4/SVB-SW³⁾ 207247	1 Off	T5B-4-15682/V/SVB-SW³⁾ 207428	1 Off		
T5-4-15682/I5/SVB-SW 207282	1 Off	T5-4-15682/V/SVB-SW 207416	1 Off		
T6-160-6/I45/SVB-SW/HI11⁵⁾ 201447	1 Off	T6-160-6/V/SVB-SW/HI11 200127	1 Off		
T8-3-8342/I48/SVB-SW/ HI11⁶⁾ 201449	1 Off		1 Off		
		T8-3-8342/V/SVB-SW/HI11 200128	1 Off		

Notes

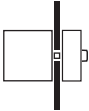
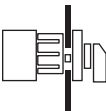
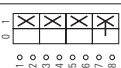
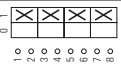
⁵⁾ Enclosure without flanges with K95/1N/BR

⁶⁾ With KS4-CI and K150/1/BR: Ingress protection IP64

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

T, P

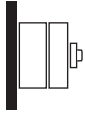
Contact sequence	Front plate no.	Main contacts Pole	Auxiliary contacts	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Center mounting Front IP65	Price	Price	Std. pack
										
	FS 908	N/O	N/O	N/C	P kW	I _u A	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list
On-Off switches										
Without auxiliary contacts										
With black thumb-grip and front plate										
		1	0	0	6.5	20	T0-1-8200/E⁽¹⁾ 067352		T0-1-8200/EZ⁽²⁾ 069725	1 Off  
		1	0	0	6.5	20				1 Off  
		1	0	0	13	32	T3-1-8200/E⁽⁴⁾ 064208		T3-1-8200/EZ⁽⁴⁾ 066581	1 Off  
		1	0	0	22	63	T5B-1-8200/E⁽⁶⁾ 094281			1 Off  
		2	0	0	6.5	20	T0-1-102/E⁽¹⁾ 088709		T0-1-102/EZ⁽²⁾ 091082	1 Off  
		2	0	0	6.5	20				1 Off  
		2	0	0	13	32	T3-1-102/E⁽¹⁾ 076073		T3-1-102/EZ⁽¹⁾ 078446	1 Off  
		2	0	0	22	63	T5B-1-102/E⁽⁶⁾ 094471			1 Off  
		3	0	0	6.5	20	T0-2-1/E⁽¹⁾ 024639		T0-2-1/EZ⁽¹⁾ 027012	1 Off  
		3	0	0	6.5	20				1 Off  
		3	0	0	13	25	P1-25/E⁽¹⁾ 038724		P1-25/EZ⁽¹⁾ 041250	1 Off  
		3	0	0	13	25				1 Off  
		3	0	0	15	32	P1-32/E⁽¹⁾ 079065		P1-32/EZ⁽¹⁾ 048369	1 Off  
		3	0	0	15	32				1 Off  
		3	0	0	37	63	P3-63/E⁽⁸⁾ 026861			1 Off  
		3	0	0	45	125	P5-125/E⁽⁹⁾ 280897			1 Off  
		3	0	0	50	100	P3-100/E⁽⁸⁾ 067201			1 Off  
		3	0	0	55	160	P5-160/E⁽⁹⁾ 280921			1 Off  
		3	0	0	90	250	P5-250/E⁽⁹⁾ 280935			1 Off  
		3	0	0	110	315	P5-315/E⁽⁹⁾ 280949			1 Off  
		3 + N	0	0	6.5	20	T0-2-8900/E⁽¹⁾ 207398		T0-2-8900/EZ⁽¹⁾ 207402	1 Off  
		3 + N	0	0	13	25	P1-25/E/N⁽¹⁾ 076845		P1-25/EZ/N⁽¹⁾ 079218	1 Off  
		3 + N	0	0	13	25				1 Off  
		3 + N	0	0	15	32	P1-32/E/N⁽¹⁾ 093456		P1-32/EZ/N⁽¹⁾ 095829	1 Off  
		3 + N	0	0	15	32				1 Off  
		3 + N	0	0	37	63	P3-63/E/N⁽⁸⁾ 019894			1 Off  
		3 + N	0	0	50	100	P3-100/E/N⁽⁸⁾ 031759			1 Off  
		4	0	0	6.5	20				1 Off  

Cam switches, switch-disconnectors

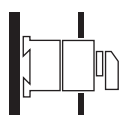
Switch-disconnectors – On-Off switches

Surface mounting
IP65

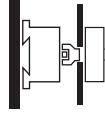
totally insulated



Distribution board - mounting
Front IP30



Rear mounting
Front IP65



Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
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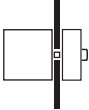
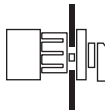


T0-1-8200/11 207074	1 Off		T0-1-8200/IVS⁽³⁾ 074471			T0-1-8200/Z⁽¹⁾ 076844	1 Off		1) → Page 24
						T0-1-15401/Z⁽¹⁾ 048346	1 Off		2) → Page 24
T3-1-8200/12⁽⁴⁾ 207167	1 Off					T3-1-8200/Z⁽⁴⁾ 071327	1 Off		3) → Page 24
T5B-1-8200/14⁽⁵⁾ 207218	1 Off					T5B-1-8200/Z⁽⁶⁾ 094270	1 Off		4) → Page 24
T0-1-102/11 207061	1 Off		T0-1-102/IVS⁽³⁾ 015147			T0-1-102/Z⁽¹⁾ 095828	1 Off		5) → Page 24
						T0-1-15402/Z⁽¹⁾ 062584	1 Off		6) → Page 24
T3-1-102/12⁽⁴⁾ 207165	1 Off					T3-1-102/Z⁽⁴⁾ 083192	1 Off		7) → Page 24
T5B-1-102/14⁽⁵⁾ 207215	1 Off					T5B-1-102/Z⁽⁶⁾ 094460	1 Off		8) → Page 24
T0-2-1/11 207081	1 Off		T0-2-1/IVS⁽³⁾ 031758			T0-2-1/Z⁽¹⁾ 036504	1 Off		9) → Page 24
T0-2-15403/11 207088	1 Off					T0-2-15403/Z⁽¹⁾ 076822	1 Off		
P1-25/12⁽⁸⁾ 207299	1 Off		P1-25/IVS⁽⁷⁾ 052962			P1-25/Z⁽⁸⁾ 057708	1 Off		
P1-25/12H 226898	1 Off						1 Off		
P1-32/12⁽⁸⁾ 207320	1 Off		P1-32/IVS⁽⁷⁾ 093303			P1-32/Z⁽⁸⁾ 098049	1 Off		
P1-32/12H 227866	1 Off						1 Off		
P3-63/14⁽⁸⁾ 207356	1 Off		P3-63/IVS⁽⁷⁾ 041099			P3-63/Z⁽⁸⁾ 050591	1 Off		
						P5-125/Z⁽⁹⁾ 280920	1 Off		
P3-100/15⁽⁸⁾ 207381	1 Off		P3-100/IVS⁽⁷⁾ 081439			P3-100/Z⁽⁸⁾ 090931	1 Off		
						P5-160/Z⁽⁹⁾ 280934	1 Off		
						P5-250/Z⁽⁹⁾ 280948	1 Off		
						P5-315/Z⁽⁹⁾ 280962	1 Off		
T0-2-8900/11 207109	1 Off		T0-2-8900/IVS⁽³⁾ 207403			T0-2-8900/Z⁽¹⁾ 207407	1 Off		
P1-25/12/N⁽⁸⁾ 207303	1 Off		P1-25/IVS/N⁽⁷⁾ 083964			P1-25/Z/N⁽⁸⁾ 088710	1 Off		
P1-25/12H/N 226901	1 Off						1 Off		
P1-32/12/N⁽⁸⁾ 207324	1 Off		P1-32/IVS/N⁽⁷⁾ 010402			P1-32/Z/N⁽⁸⁾ 015148	1 Off		
P1-32/12H/N 227869	1 Off						1 Off		
P3-63/14/N⁽⁸⁾ 207360	1 Off		P3-63/IVS/N⁽⁷⁾ 022267			P3-63/Z/N⁽⁸⁾ 027013	1 Off		
P3-100/15/N⁽⁸⁾ 207385	1 Off		P3-100/IVS/N⁽⁷⁾ 034132			P3-100/Z/N⁽⁸⁾ 038878	1 Off		
T0-2-15404/11 207089	1 Off		T0-2-15404/IVS⁽³⁾ 088687			T0-2-15404/Z⁽¹⁾ 091060	1 Off		

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

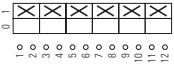
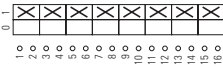
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Contact sequence	Front plate no.	Main contacts Pole	Auxiliary contacts	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninter- rupted current	Flush mounting Front IP65	Center mounting Front IP65	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	Std. pack
	 FS 908											
		N/O	N/O	N/C	P kW	I _u A						

On-Off switches

Without auxiliary contacts

With black thumb-grip and front plate

	6	0	0	6.5	20	T0-3-8342/E¹⁾ 043624	T0-3-8342/EZ¹⁾ 045997	1 Off	 
	6	0	0	13	32	T3-3-8342/E⁴⁾ 045225		1 Off	 
	6	0	0	22	63	T5B-3-8342/E⁶⁾ 092310		1 Off	 
	8	0	0	6.5	20	T0-4-8344/E¹⁾ 014000	T0-4-8344/EZ¹⁾ 014002	1 Off	 
	8	0	0	13	32	T3-4-8344/E⁴⁾ 020593	T3-4-8344/EZ⁴⁾ 020595	1 Off	 
	8	0	0	22	63	T5B-4-8344/E⁶⁾ 092064		1 Off	 

Information relevant for export to North America



1) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	2) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	3) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-05	CSA Class No.	3211-05	CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12	Degree of Protection	IEC: IP65; UL/CSA Type: –	Degree of Protection	IEC: IP30; UL/CSA Type: –

6) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	7) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	8) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-07	CSA Class No.	3211-05	CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1	Degree of Protection	IEC: IP65; UL/CSA Type: –	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

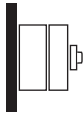
Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

Surface mounting

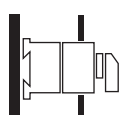
IP65

totally insulated



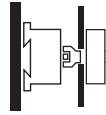
Distribution board - mounting

Front IP30



Rear mounting

Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

Part no.
Article no.

Price
See price
list

Part no.
Article no.

Price
See price
list

Std. pack

Information relevant for export to North America



T0-3-8342/I1 207131	1 Off	T0-3-8342/IVS³⁾ 050743	T0-3-8342/Z¹⁾ 055489	1 Off
T3-3-8342/I2⁴⁾ 207187	1 Off		T3-3-8342/Z⁴⁾ 052344	1 Off
T5B-3-8342/I4⁵⁾ 207226	1 Off		T5B-3-8342/Z⁶⁾ 092297	1 Off
T0-4-8344/I1 207139	1 Off	T0-4-8344/IVS³⁾ 014006	T0-4-8344/Z¹⁾ 014009	1 Off
T3-4-8344/I2⁴⁾ 207194	1 Off		T3-4-8344/Z⁴⁾ 020600	1 Off
T5B-4-8344/I4⁵⁾ 207233	1 Off			

4)

Product Standards UL 508; CSA-C22.2 No. 14-05;
CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking

UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-07
NA Certification UL Listed, CSA certified
Suitable for Branch circuits, suitable as
motor disconnect

Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

5)

Product Standards UL 508; CSA-C22.2 No. 14-05;
CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking

UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-07
NA Certification UL Listed, CSA certified
Suitable for Branch circuits, suitable as
motor disconnect

Degree of Protection IEC: IP65; UL/CSA Type: –

9)

Product Standards UL 508; CSA-C22.2 No. 14-05;
CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking

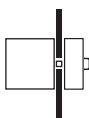
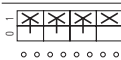
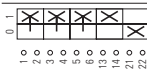
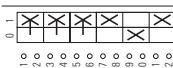
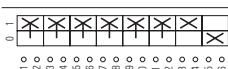
UL File No. E36332
UL CCN NLRV
CSA File No. 223805
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuits, suitable as
motor disconnect

Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

T, P

Contact sequence	Front plate no.  FS 908	Main contacts Pole	Auxiliary contacts	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting 	Front IP65		
		N/O 	N/O 	N/C 	400 V P kW	I _U A	Part no. Article no.	Price See price list	Std. pack
On-Off switches without emergency switching off/emergency stop function									
With auxiliary contacts With black thumb-grip and front plate									
	3	1	0	6.5	20	T0-2-15679/E¹⁾ 029387	1 Off	 	
	3	1	1	13	25		1 Off	 	
	3	1	1	15	32		1 Off	 	
	3	2	1	6.5	20	T0-3-15683/E¹⁾ 016619	1 Off	 	
	3	2	1	13	32	T3-3-15683/E³⁾ 014377	1 Off	 	
	3 + N	1	1	6.5	20	T0-3-8901/E¹⁾ 231938	1 Off	 	
	3 + N	1	1	13	32	T3-3-8901/E³⁾ 231949	1 Off	 	
	6	1	1	6.5	20	T0-4-15682/E¹⁾ 010405	1 Off	 	
	6	1	1	13	32	T3-4-15682/E³⁾ 023869	1 Off	 	
	6	1	1	22	63	T5B-4-15682/E⁴⁾ 207424	1 Off	 	
	6	1	1	30	100	T5-4-15682/E 207412	1 Off	 	

Information relevant for export to North America

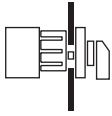


1)	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	2)	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	3)	Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
	UL File No.	E36332		UL File No.	E36332		UL File No.	E36332
	UL CCN	NLRV		UL CCN	NLRV		UL CCN	NLRV
	CSA File No.	12528		CSA File No.	12528		CSA File No.	12528
	CSA Class No.	3211-05		CSA Class No.	3211-05		CSA Class No.	3211-07
	NA Certification	UL Listed, CSA certified		NA Certification	UL Listed, CSA certified		NA Certification	UL Listed, CSA certified
	Suitable for	Branch circuits, suitable as motor disconnect		Suitable for	Branch circuits, suitable as motor disconnect		Suitable for	Branch circuits, suitable as motor disconnect
	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12		Degree of Protection	IEC: IP30; UL/CSA Type: –		Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
7)	Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking						
	UL File No.	E36332						
	UL CCN	NLRV						
	CSA File No.	12528						
	CSA Class No.	3211-05						
	NA Certification	UL Listed, CSA certified						
	Suitable for	Branch circuits, suitable as motor disconnect						
	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12						

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

Center
mounting
Front IP65

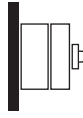


Part no.
Article no.

Price
See
price
list

Std. pack

Surface
mounting
IP65



Part no.
Article no.

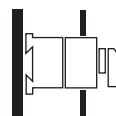
Price
See
price
list

Std. pack

Totally insulated

Distribution board - mounting

Front IP30



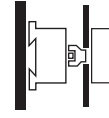
Part no.
Article no.

Price
See
price
list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price
list

Std. pack

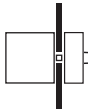
T0-2-15679/EZ¹⁾ 031760	1 Off  	T0-2-15679/I1 207094	1 Off	T0-2-15679/IVS²⁾ 036506	1 Off  	T0-2-15679/Z¹⁾ 041252	1 Off  
	1 Off  	P1-25/12H/HI11 226899	1 Off		1 Off  		1 Off  
	1 Off  	P1-32/12H/HI11 227867	1 Off		1 Off  		1 Off  
T0-3-15683/EZ¹⁾ 016658	1 Off  	T0-3-15683/I1 207118	1 Off	T0-3-15683/IVS²⁾ 016722	1 Off  		1 Off  
	1 Off  	T3-3-15683/I2³⁾ 207182	1 Off  		1 Off  		1 Off  
T0-3-8901/EZ¹⁾ 231939	1 Off  	T0-3-8901/I1 231941	1 Off	T0-3-8901/IVS²⁾ 231940	1 Off  		1 Off  
T3-3-8901/EZ³⁾ 231950	1 Off  	T3-3-8901/I2³⁾ 231951	1 Off  		1 Off  	T3-3-8901/Z³⁾ 231952	1 Off  
T0-4-15682/EZ¹⁾ 012778	1 Off  	T0-4-15682/I1 207135	1 Off	T0-4-15682/IVS²⁾ 017524	1 Off  	T0-4-15682/Z¹⁾ 022270	1 Off  
	1 Off  	T3-4-15682/I2³⁾ 207190	1 Off  		1 Off  	T3-4-15682/Z³⁾ 030988	1 Off  
	1 Off  	T5B-4-15682/I4⁵⁾ 207229	1 Off  		1 Off  	T5B-4-15682/Z⁴⁾ 207429	1 Off  
	1 Off  	T5-4-15682/I5 207269	1 Off		1 Off  	T5-4-15682/Z 207417	1 Off  

4)		5)		6)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-07	CSA Class No.	3211-07	CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1	Degree of Protection	IEC: IP65; UL/CSA Type: –	Degree of Protection	IEC: IP65; UL/CSA Type: –

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

T, P

Contact sequence	Front plate no.  FS 908	Main contacts Pole	Auxiliary contacts	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting 			
		N/O 	N/O 	N/C 	400 V P kW	I _u A	Part no. Article no.	Price See price list	Std. pack

On-Off switches as an emergency switching off/emergency stop device

With red thumb-grip and yellow front plate
To IEC/EN 60204-1, VDE 113 Part 1

	1	0	0	6.5	20	T0-1-8200/E-RT¹⁾ 009474	1 Off  
				13	32	T3-1-8200/E-RT³⁾ 017025	1 Off  
				22	63	T5B-1-8200/E-RT⁴⁾ 094280	1 Off  
				30	100	T5-1-8200/E-RT 097225	1 Off
	2	0	0	6.5	20	T0-1-102/E-RT¹⁾ 009046	1 Off  
				13	32	T3-1-102/E-RT¹⁾ 016318	1 Off  
				22	63	T5B-1-102/E-RT⁴⁾ 094470	1 Off  
	3	0	0	6.5	20	T0-2-1/E-RT¹⁾ 011082	1 Off  
				13	25	P1-25/E-RT¹⁾ 002388	1 Off  
				15	32	P1-32/E-RT¹⁾ 003197	1 Off  
				37	63	P3-63/E-RT⁷⁾ 005743	1 Off  
				50	100	P3-100/E-RT⁷⁾ 007189	1 Off  
	3 + N	0	0	6.5	20	T0-2-8900/E-RT¹⁾ 207399	1 Off  

Information relevant for export to North America

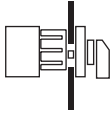


1) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	2) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	3) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-05	CSA Class No.	3211-05	CSA Class No.	3211-07
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12	Degree of Protection	IEC: IP30; UL/CSA Type: –	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12
7) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking				
UL File No.	E36332				
UL CCN	NLRV				
CSA File No.	12528				
CSA Class No.	3211-05				
NA Certification	UL Listed, CSA certified				
Suitable for	Branch circuits, suitable as motor disconnect				
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12				

Cam switches, switch-disconnectors

Switch-disconnectors – On-Off switches

Center
mounting
Front IP65

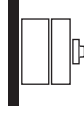


Part no.
Article no.

Price
See
price
list

Std. pack

Surface
mounting
IP65



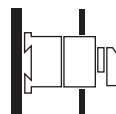
Part no.
Article no.

Price
See
price
list

Std. pack

totally insulated

Distribution board - mounting
Front IP30

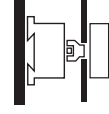


Part no.
Article no.

Price
See
price
list

Std. pack

Rear mounting
Front IP65



Part no.
Article no.

Price
See
price
list

Std. pack

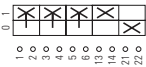
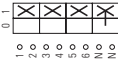
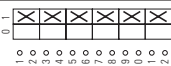
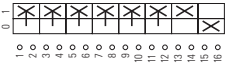
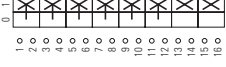
	T0-1-8200/I1-RT 207075	1 Off		T0-1-8200/IVS-RT²⁾ 081956	1 Off	
					1 Off	
					1 Off	
					1 Off	
	T0-1-102/I1-RT 207062	1 Off		T0-1-102/IVS-RT²⁾ 079583	1 Off	
	T3-1-102/I2-RT³⁾ 207166	1 Off			1 Off	
					1 Off	
	T0-2-1/I1-RT 207082	1 Off		T0-2-1/IVS-RT²⁾ 084329	1 Off	
	P1-25/I2-RT⁷⁾ 207300	1 Off		P1-25/IVS-RT⁶⁾ 013140	1 Off	
	P1-32/I2-RT⁷⁾ 207321	1 Off		P1-32/IVS-RT⁶⁾ 022632	1 Off	
	P3-63/I4-RT⁷⁾ 207357	1 Off		P3-63/IVS-RT⁶⁾ 045845	1 Off	
	P3-100/I5-RT⁷⁾ 207382	1 Off		P3-100/IVS-RT⁶⁾ 086185	1 Off	
	T0-2-8900/I1-RT 207110	1 Off		T0-2-8900/IVS-RT²⁾ 207404	1 Off	

4) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	5) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking	6) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-07	CSA Class No.	3211-07	CSA Class No.	3211-05
NA Certification Suitable for	UL Listed, CSA certified Branch circuits, suitable as motor disconnect	NA Certification Suitable for	UL Listed, CSA certified Branch circuits, suitable as motor disconnect	NA Certification Suitable for	UL Listed, CSA certified Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 1	Degree of Protection	IEC: IP65; UL/CSA Type: –	Degree of Protection	IEC: IP65; UL/CSA Type: –

Cam switches, switch-disconnectors

Switch-disconnectors – safety switches

T, P

Contact sequence	Front plate no.	Main contacts Pole	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	As an emergency switching off/ emergency stop device ¹⁾ Surface mounting IP65	Part no. Article no.	Price See price list	Std. pack
	 FS 908								
		N/O	N/O	N/C	400 V P kW	I _u A			
Safety switches with warning label									
		3	0	0	13	25	P1-25/12-SI⁽³⁾ 207308		1 Off
					15	32	P1-32/12-SI⁽³⁾ 207329		1 Off
					37	63	P3-63/14-SI⁽³⁾ 207361		1 Off
					50	100	P3-100/15-SI⁽³⁾ 207386		1 Off
		3	1	1	13	25	P1-25/12-SI/HI11⁽³⁾ 207310		1 Off
					15	32	P1-32/12-SI/HI11⁽³⁾ 207331		1 Off
					37	63	P3-63/14-SI/HI11⁽³⁾ 207363		1 Off
					50	100	P3-100/15-SI/HI11⁽³⁾ 207388		1 Off
		3 + N	0	0	13	25	P1-25/12-SI/N⁽³⁾ 207312		1 Off
					15	32	P1-32/12-SI/N⁽³⁾ 207333		1 Off
					37	63	P3-63/14-SI/N⁽³⁾ 207365		1 Off
					50	100	P3-100/15-SI/N⁽³⁾ 207390		1 Off
		6	0	0	22	63	T5B-3-8342/14-SI⁽⁴⁾ 207250		1 Off
					30	100	T5-3-8342/15-SI⁽⁴⁾ 207447		1 Off
		6	1	1	22	63	T5B-4-15682/14-SI⁽⁴⁾ 207254		1 Off
					30	100	T5-4-15682/15-SI⁽⁴⁾ 207285		1 Off
		6	2	0	22	63	T5B-4-8903/14-SI⁽⁴⁾ 207258		1 Off
					30	100	T5-4-8903/15-SI⁽⁴⁾ 207289		1 Off

Notes

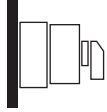
- Surface mounting IP65 : With red rotary handle and yellow locking collar with auxiliary contacts , lockable in position 0 with cover interlock, according to IEC/EN 60204-1, VDE 0113 Part 1
- Surface mounting IP65 : With black rotary handle and locking collar with auxiliary contacts Lockable in position 0 with cover interlock

Without emergency switching off/
emergency stop function ²⁾

Surface mounting

IP65

totally insulated



Part no.
Article no.

Price
See price
list

Std. pack

Notes

P1-25/12-SI-SW⁽³⁾ 207309	1 Off
P1-32/12-SI-SW⁽³⁾ 207330	1 Off
P3-63/14-SI-SW⁽³⁾ 207362	1 Off
P3-100/15-SI-SW⁽³⁾ 207387	1 Off
P1-25/12-SI/HI11-SW⁽³⁾ 207311	1 Off
P1-32/12-SI/HI11-SW⁽³⁾ 207332	1 Off
P3-63/14-SI/HI11-SW⁽³⁾ 207364	1 Off
P3-100/15-SI/HI11-SW⁽³⁾ 207389	1 Off
P1-25/12-SI/N-SW⁽³⁾ 207313	1 Off
P1-32/12-SI/N-SW⁽³⁾ 207334	1 Off
P3-63/14-SI/N-SW⁽³⁾ 207366	1 Off
P3-100/15-SI/N-SW⁽³⁾ 207391	1 Off
T5B-3-8342/14-SI-SW⁽⁴⁾ 207251	1 Off
T5-3-8342/15-SI-SW⁽⁴⁾ 207448	1 Off
T5B-4-15682/14-SI-SW⁽⁴⁾ 207255	1 Off
T5-4-15682/15-SI-SW⁽⁴⁾ 207286	1 Off
T5B-4-8903/14-SI-SW⁽⁴⁾ 207259	1 Off
T5-4-8903/15-SI-SW⁽⁴⁾ 207290	1 Off

Engineering

Maintenance, repair and safety switches all have the same electrical function. They are designed to safely isolate electrical installations (loads) from mains power during maintenance and repair work and to ensure that a hazard does not arise which endangers personnel, machinery and production materials.

A safety switch is an additional enclosed main switch = isolator dedicated to an individual electrical load and mounted in the immediate vicinity of the motor or the electrical load. This is particularly important if there is any danger of the main switch being inadvertently operated.

Application

By using his padlock (up to 3), each fitter/electrician involved can protect themselves by preventing unauthorized personnel from switching the unit on. Maintenance/manual override switches are simply additional enclosed main switches with a padlocking feature. Enclosed main switch with padlocking facility

Features

- Safety switches are always housed in insulated enclosures and have an inscription saying "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 (as per IEC/EN 60204/VDE 0113).
- If the switch is not approved for emergency stop switching, both parts will be black ("SW" part no. suffix).
- The cover and handle are interlocked by fitting a padlock.

Selection

The switches must be selected according to the following performance specifications:

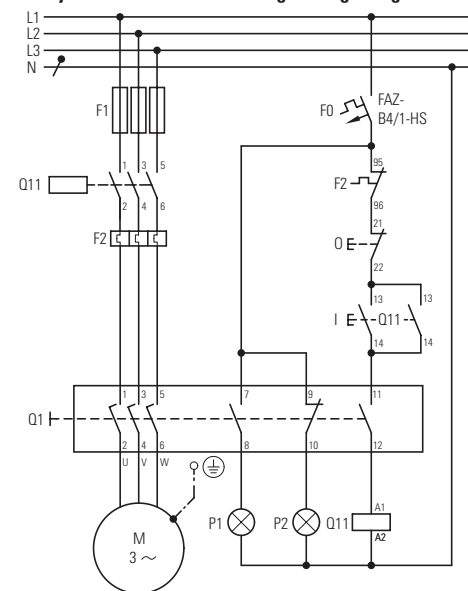
1) According to motor switching capacity, when the switch is fitted in such a way that the operator may use it for operational ON and OFF switching.

2) The rating data always applies to 3 poles. When the motor rating is divided between 6 poles, such as for star-delta switching, a 6 pole switch can be used to control 1.73 times the rated power.

3) If the switch has a load-shedding Contact (LA), you can select the appropriate switch according to the uninterrupted current. The load-shedding contact is an auxiliary contact, which is closed in the ON position and opens early when switching off, so that a contactor located in the circuit takes over the switching 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 the N/O auxiliary contact. 4) The "ON" position can be locked with a padlock (by altering the handle).

This is not permissible for switches with a red/yellow handle.

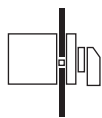
Safety switch with load shedding and signaling



Cam switches, switch-disconnectors

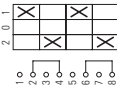
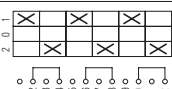
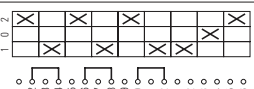
Switch-disconnectors – changeover switches

T, P

Contact sequence	Front plate no.	Main contacts Pole	Max. operating power AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting 	Part no. Article no.	Price See price list	Std. pack
		N/O 	400 V P kW	I _u A				

Changeover switches

With black thumb-grip and front plate without emergency switching off/emergency stop function

	 FS 684	1	6.5	20	T0-1-8210/E¹⁾ 012742	1 Off  
			13	32	T3-1-8210/E¹⁾ 054718	1 Off  
			22	63	T5B-1-8210/E⁵⁾ 094261	1 Off  
	 FS 4011	1	6.5	20		1 Off  
	 FS 684	2	6.5	20	T0-2-8211/E¹⁾ 022234	1 Off  
			13	32	T3-2-8211/E¹⁾ 061837	1 Off  
			22	63	T5B-2-8211/E⁵⁾ 093094	1 Off  
	 FS 684	3	6.5	20	T0-3-8212/E¹⁾ 029353	1 Off  
			13	32	T3-3-8212/E¹⁾ 068956	1 Off  
			22	63	T5B-3-8212/E⁵⁾ 092386	1 Off  
			30	100	T5-3-8212/E 096466	1 Off
	 	3	55	160	T6-3-8212/E/HI12 214781	1 Off
			132	315	T8-3-8212/E/HI12 214782	1 Off

Information relevant for export to North America



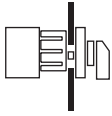
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Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection
E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits IEC: IP65; UL/CSA Type 3R, 12	E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits IEC: IP30; UL/CSA Type: –	E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – changeover switches

Center mounting

Front IP65



Part no.
Article no.

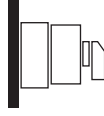
Price
See
price list

Std. pack

Surface mounting

IP65

totally insulated



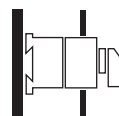
Part no.
Article no.

Price
See
price list

Std. pack

Distribution board
mounting

Front IP30



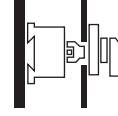
Part no.
Article no.

Price
See
price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

T0-1-8210/EZ⁽¹⁾ 048337	1 Off  	T0-1-8210/I1 207076	1 Off	T0-1-8210/IVS⁽²⁾ 074440	1 Off  	T0-1-8210/Z⁽¹⁾ 019862	1 Off  
T3-1-8210/EZ⁽¹⁾ 003072	1 Off  	T3-1-8210/I2⁽³⁾ 207169	1 Off  		1 Off  	T3-1-8210/Z⁽¹⁾ 057091	1 Off  
	1 Off  	T5B-1-8210/I4⁽⁴⁾ 207432	1 Off  		1 Off  	T5B-1-8210/Z⁽⁵⁾ 094258	1 Off  
T0-1-8214/EZ⁽¹⁾ 076815	1 Off  				1 Off  	T0-1-8214/Z⁽¹⁾ 050720	1 Off  
T0-2-8211/EZ⁽¹⁾ 053083	1 Off  	T0-2-8211/I1 207102	1 Off	T0-2-8211/IVS⁽²⁾ 076813	1 Off  	T0-2-8211/Z⁽¹⁾ 029354	1 Off  
T3-2-8211/EZ⁽¹⁾ 003075	1 Off  	T3-2-8211/I2⁽³⁾ 207178	1 Off  		1 Off  	T3-2-8211/Z⁽¹⁾ 064210	1 Off  
	1 Off  	T5B-2-8211/I4⁽⁴⁾ 207220	1 Off  		1 Off  	T5B-2-8211/Z⁽⁵⁾ 093082	1 Off  
T0-3-8212/EZ⁽¹⁾ 057829	1 Off  	T0-3-8212/I1 207123	1 Off	T0-3-8212/IVS⁽²⁾ 079186	1 Off  	T0-3-8212/Z⁽¹⁾ 036473	1 Off  
T3-3-8212/EZ⁽¹⁾ 003080	1 Off  	T3-3-8212/I2⁽³⁾ 207183	1 Off  			T3-3-8212/Z⁽¹⁾ 071329	1 Off  
		T5B-3-8212/I4⁽⁴⁾ 207223	1 Off  			T5B-3-8212/Z⁽⁵⁾ 092383	1 Off  
		T5-3-8212/I5 207266	1 Off			T5-3-8212/Z 096464	1 Off

4)

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type: –

5)

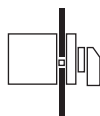
Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type 1

Cam switches, switch-disconnectors

Switch-disconnectors – changeover switches

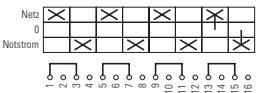
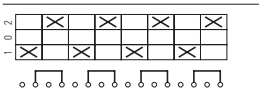
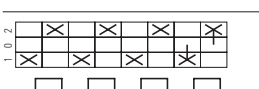
T, P

Contact sequence	Front plate no.	Main contacts Pole	Max. operating power AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting 	Part no. Article no.	Price See price list	Std. pack
		N/O 	400 V P kW	I _u A				

Changeover switches

With black thumb-grip and front plate

Without emergency switching off/emergency stop function

 FS 161629	 FS 161629	4	13	32	T3-4-8902/E¹⁾ 215222	1 Off  
			22	63	T5B-4-8902/E⁵⁾ 207430	1 Off  
			30	100	T5-4-8902/E 207418	1 Off  
 FS 684	 FS 684	4	6.5	20	T0-4-8213/E¹⁾ 031726	1 Off  
			13	32	T3-4-8213/E¹⁾ 076075	1 Off  
			22	63	T5B-4-8213/E⁵⁾ 092112	1 Off  
			30	100	T5-4-8213/E 096014	1 Off  
 FS 953	 FS 953	4	6.5	20	T0-4-8294/E¹⁾ 010371	1 Off  
			13	32	T3-4-8294/E¹⁾ 002513	1 Off  
			22	63	T5B-4-8294/E⁵⁾ 092084	1 Off  
			30	100	T5-4-8294/E 095986	1 Off  

Information relevant for export to North America



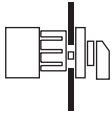
1)	2)	3)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. E36332 UL CCN NLRV CSA File No. 12528 CSA Class No. 3211-05 NA Certification UL Listed, CSA certified Suitable for Branch circuits Degree of Protection IEC: IP65; UL/CSA Type 3R, 12	Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. E36332 UL CCN NLRV CSA File No. 12528 CSA Class No. 3211-05 NA Certification UL Listed, CSA certified Suitable for Branch circuits Degree of Protection IEC: IP30; UL/CSA Type: –	Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking UL File No. E36332 UL CCN NLRV CSA File No. 12528 CSA Class No. 3211-05 NA Certification UL Listed, CSA certified Suitable for Branch circuits Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – changeover switches

Center mounting

Front IP65



Part no.
Article no.

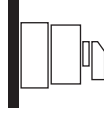
Price
See
price list

Std. pack

Surface mounting

IP65

totally insulated



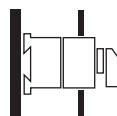
Part no.
Article no.

Price
See
price list

Std. pack

Distribution board
mounting

Front IP30



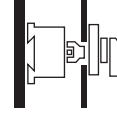
Part no.
Article no.

Price
See
price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

T3-4-8902/EZ ⁽¹⁾ 215223	1 Off  	T3-4-8902/I2 ⁽³⁾ 215224	1 Off  	T3-4-8902/Z ⁽¹⁾ 215225	1 Off  
		T5B-4-8902/I4 ⁽⁴⁾ 207237	1 Off  	T5B-4-8902/Z ⁽⁵⁾ 207431	1 Off  
		T5-4-8902/I5 207214	1 Off	T5-4-8902/Z 207419	1 Off
T0-4-8213/EZ ⁽¹⁾ 062575	1 Off  	T0-4-8213/I1 207136	1 Off	T0-4-8213/IVS ⁽²⁾ 081559	1 Off  
T3-4-8213/EZ ⁽¹⁾ 003079	1 Off  	T3-4-8213/I2 ⁽³⁾ 207191	1 Off  	T3-4-8213/Z ⁽¹⁾ 078448	1 Off  
		T5B-4-8213/I4 ⁽⁴⁾ 207230	1 Off  	T5B-4-8213/Z ⁽⁵⁾ 092109	1 Off  
		T5-4-8213/I5 207270	1 Off	T5-4-8213/Z 096012	1 Off
T0-4-8294/EZ ⁽¹⁾ 072069	1 Off  	T0-4-8294/I1 207138	1 Off	T0-4-8294/IVS ⁽²⁾ 043594	1 Off  
		T3-4-8294/I2 ⁽³⁾ 207193	1 Off  	T3-4-8294/Z ⁽¹⁾ 004886	1 Off  
		T5B-4-8294/I4 ⁽⁴⁾ 207232	1 Off  	T5B-4-8294/Z ⁽⁵⁾ 092081	1 Off  
		T5-4-8294/I5 207433	1 Off	T5-4-8294/Z 095984	1 Off

4)

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type: –

5)

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type 1

Cam switches, switch-disconnectors

Switch-disconnectors – changeover switches

T, P

Contact sequence

Front plate no.

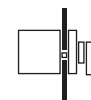
Main contacts Pole

Max. motor rating
AC-23A
400/415 V
50/60 Hz

Rated uninterrupted current

Flush mounting

Front IP65



N/O

400 V
P
kW

I_u
A

Part no.
Article no.

Price
See
price list

Std. pack

Changeover switches with 0 position

With black thumb-grip and front plate
Without emergency switching off/emergency stop function
with momentary from both directions to 0

		1	6.5	20	T0-1-8214/E²⁾ 019863	1 Off	
			13	32	T3-1-8214/E²⁾ 009632	1 Off	
		2	6.5	20	T0-2-8215/E²⁾ 022236	1 Off	
			13	32	T3-2-8215/E²⁾ 016751	1 Off	
		3	6.5	20	T0-3-8216/E²⁾ 024609	1 Off	
			13	32	T3-3-8216/E²⁾ 023870	1 Off	

Changeover switches without 0 position

With black thumb-grip and front plate
Without emergency switching off/emergency stop function

Two-way switch

		1	6.5	20	T0-1-8220/E²⁾ 031728	1 Off	
		2	6.5	20	T0-2-8221/E²⁾ 038847	1 Off	
			13	32	T3-2-8221/E²⁾ 045227	1 Off	
			22	63	T5B-2-8221/E⁴⁾ 093047	1 Off	
		3	6.5	20	T0-3-8222/E²⁾ 048339	1 Off	
			13	32	T3-3-8222/E²⁾ 052346	1 Off	
			22	63	T5B-3-8222/E⁴⁾ 092378	1 Off	
		4	6.5	20	T0-4-8223/E²⁾ 050712	1 Off	
			13	32	T3-4-8223/E²⁾ 059465	1 Off	
			22	63	T5B-4-8223/E⁴⁾ 092108	1 Off	
		5	6.5	20	T0-5-8369/E²⁾ 060204	1 Off	
			13	32	T3-5-8369/E²⁾ 066584	1 Off	
		6	6.5	20	T0-6-8370/E²⁾ 062577	1 Off	
			13	32	T3-6-8370/E²⁾ 073703	1 Off	
		8	6.5	20	T0-8-8372/E²⁾ 064950	1 Off	
			13	32	T3-8-8372/E²⁾ 080822	1 Off	

Information relevant for export to North America



1)

Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking

E36332
NLRV
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP30; UL/CSA Type: –

2)

Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking

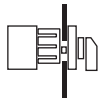
E36332
NLRV
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – changeover switches

Center mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

Surface mounting

IP65



Part no.
Article no.

Price
See
price list

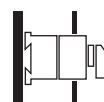
Std. pack

totally insulated

Distribution board

mounting

Front IP30



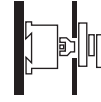
Part no.
Article no.

Price
See
price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

T0-1-8214/EZ 076815			T0-1-8214/I1 207077	1 Off	T0-1-8214/IVS¹⁾ 045967	1 Off	T0-1-8214/Z 050720	
T0-2-8215/EZ²⁾ 081561	1 Off		T0-2-8215/I1 207103	1 Off	T0-2-8215/IVS¹⁾ 048340	1 Off		
			T3-2-8215/I2³⁾ 207179	1 Off				
T0-3-8216/EZ²⁾ 086307	1 Off		T0-3-8216/I1 207434	1 Off	T0-3-8216/IVS¹⁾ 050713	1 Off	T0-3-8216/Z²⁾ 055466	1 Off
			T3-3-8216/I2³⁾ 207184	1 Off				
T0-1-8220/EZ²⁾ 095799	1 Off		T0-1-8220/I1 207078	1 Off	T0-1-8220/IVS¹⁾ 055459	1 Off	T0-1-8220/Z²⁾ 086312	1 Off
T0-2-8221/EZ²⁾ 010372	1 Off		T0-2-8221/I1 207104	1 Off	T0-2-8221/IVS¹⁾ 057832	1 Off	T0-2-8221/Z²⁾ 074450	1 Off
T3-2-8221/EZ²⁾ 001025	1 Off		T3-2-8221/I2³⁾ 207180	1 Off			T3-2-8221/Z²⁾ 047600	1 Off
			T5B-2-8221/I4⁵⁾ 207221	1 Off			T5B-2-8221/Z⁴⁾ 093044	1 Off
T0-3-8222/EZ²⁾ 015118	1 Off		T0-3-8222/I1 207124	1 Off	T0-3-8222/IVS¹⁾ 060205	1 Off	T0-3-8222/Z²⁾ 088686	1 Off
T3-3-8222/EZ²⁾ 001069	1 Off		T3-3-8222/I2³⁾ 207185	1 Off			T3-3-8222/Z²⁾ 057092	1 Off
			T5B-3-8222/I4⁵⁾ 207224	1 Off			T5B-3-8222/Z⁴⁾ 092375	1 Off
T0-4-8223/EZ²⁾ 019864	1 Off		T0-4-8223/I1 207137	1 Off	T0-4-8223/IVS¹⁾ 062578	1 Off	T0-4-8223/Z²⁾ 086315	1 Off
			T3-4-8223/I2³⁾ 207192	1 Off			T3-4-8223/Z²⁾ 061838	1 Off
			T5B-4-8223/I4⁵⁾ 207231	1 Off			T5B-4-8223/Z⁴⁾ 092105	1 Off
T0-5-8369/EZ²⁾ 024610	1 Off				T0-5-8369/IVS¹⁾ 064951	1 Off		
			T3-5-8369/I2³⁾ 207536	1 Off			T3-5-8369/Z²⁾ 068957	1 Off
T0-6-8370/EZ²⁾ 029356	1 Off				T0-6-8370/IVS¹⁾ 067324	1 Off	T0-6-8370/Z²⁾ 010380	1 Off
T3-6-8370/EZ²⁾ 004506	1 Off							
T0-8-8372/EZ²⁾ 034102	1 Off				T0-8-8372/IVS¹⁾ 069697	1 Off	T0-8-8372/Z²⁾ 012753	1 Off
							T3-8-8372/Z²⁾ 083195	1 Off

3)

Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking
E36332
NLRV
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type 3R, 12

4)

Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type 1

5)

Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
E36332
NLRV7
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP65; UL/CSA Type: –

Cam switches, switch-disconnectors

Switch-disconnectors – reversing switches

T, P

Contact sequence	Front plate no.	Main contacts Pole	Max. operating power AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
		S	400 V P kW	I _u A				

Reversing switch with 0 (Off) position

With black thumb-grip and front plate

Without emergency switching off/emergency stop function

Without momentary

	 FS 684	2	6.5	20	T0-2-8400/E¹⁾ 053079	1 Off	
			13	32	T3-2-8400/E¹⁾ 073695	1 Off	
			22	63	T5B-2-8400/E²⁾ 092918	1 Off	
	 FS 684	3	6.5	20	T0-3-8401/E¹⁾ 091047	1 Off	
			13	32	T3-3-8401/E¹⁾ 030992	1 Off	
			22	63	T5B-3-8401/E²⁾ 092296	1 Off	

With momentary from both directions to 0

	 FS 4011	3	6.5	20	T0-3-8228/E¹⁾ 015112	1 Off	
			13	32	T3-3-8228/E¹⁾ 002538	1 Off	
			22	63	T5B-3-8228/E²⁾ 092374	1 Off	

Star-delta switches

With black thumb-grip and front plate

Without emergency switching off/emergency stop function

	 FS 635	3	6.5	20	T0-4-8410/E¹⁾ 024604	1 Off	
			13	32	T3-4-8410/E¹⁾ 009657	1 Off	
			22	63	T5B-4-8410/E¹⁾ 092052	1 Off	

Reversing star-delta switches

With black thumb-grip and front plate

Without emergency switching off/emergency stop function

Two-way operating direction

	 FS 638	3	6.5	20	T0-5-15876/E¹⁾ 000893	1 Off	
			13	32	T3-5-15876/E¹⁾ 016776	1 Off	
	 FS 4017	3	22	63	T5B-5-15876/E²⁾ 214785	1 Off	

Information relevant for export to North America



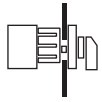
1) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	2) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV7
CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-05	CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – reversing switches

Center mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

Surface mounting

IP65



totally insulated

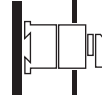
Part no.
Article no.

Price
See
price list

Std. pack

Distribution board
mounting

Front IP30



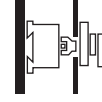
Part no.
Article no.

Price
See
price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

T0-2-8400/EZ¹⁾ 055452	1 Off  	T0-2-8400/I1 207111	1 Off	T0-2-8400/IVS⁴⁾ 060198	1 Off  	T0-2-8400/Z¹⁾ 062571	1 Off  
T3-2-8400/EZ¹⁾ 000687	1 Off  	T3-2-8400/I2³⁾ 207181	1 Off  			T3-2-8400/Z¹⁾ 095060	1 Off  
	1 Off  	T5B-2-8400/I4²⁾ 207222	1 Off  				1 Off  
T0-3-8401/EZ¹⁾ 093420	1 Off  	T0-3-8401/I1 207132	1 Off	T0-3-8401/IVS⁴⁾ 098166	1 Off  	T0-3-8401/Z¹⁾ 010366	1 Off  
T3-3-8401/EZ¹⁾ 000694	1 Off  	T3-3-8401/I2³⁾ 207188	1 Off  			T3-3-8401/Z¹⁾ 035739	1 Off  
	1 Off  	T5B-3-8401/I4²⁾ 207227	1 Off  			T5B-3-8401/Z²⁾ 092293	1 Off  
T0-3-8228/EZ¹⁾ 048334	1 Off  	T0-3-8228/I1 207125	1 Off	T0-3-8228/IVS⁴⁾ 062572	1 Off  	T0-3-8228/Z¹⁾ 074437	1 Off  
T3-3-8228/EZ¹⁾ 000695	1 Off  	T3-3-8228/I2³⁾ 207186	1 Off  			T3-3-8228/Z¹⁾ 004911	1 Off  
		T5B-3-8228/I4²⁾ 207225	1 Off  				1 Off  
T0-4-8410/EZ¹⁾ 053080	1 Off  	T0-4-8410/I1 207140	1 Off	T0-4-8410/IVS⁵⁾ 064945	1 Off  	T0-4-8410/Z¹⁾ 083929	1 Off  
T3-4-8410/EZ¹⁾ 000721	1 Off  	T3-4-8410/I2³⁾ 207195	1 Off  			T3-4-8410/Z¹⁾ 012030	1 Off  
		T5B-4-8410/I4¹⁾ 207234	1 Off  			T5B-4-8410/Z¹⁾ 092049	1 Off  
T0-5-15876/EZ¹⁾ 000900	1 Off  			T0-5-15876/IVS⁴⁾ 000902	1 Off  	T0-5-15876/Z¹⁾ 000942	1 Off  
T3-5-15876/EZ¹⁾ 000797	1 Off  	T3-5-15876/I2³⁾ 207537	1 Off  			T3-5-15876/Z¹⁾ 019149	1 Off  
						T5B-5-15876/Z²⁾ 214786	1 Off  

3)
Product Standards
UL 508; CSA-C22.2 No. 14-05;
CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

4)
Product Standards
UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

5)
Product Standards
UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

Cam switches, switch-disconnectors

Switch-disconnectors – multi-speed switches

T, P

Contact sequence	Front plate no.	Main contacts Pole	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65
		N/O	400 V P kW	I _u A	Part no. Article no.
					Price See price list
					Std. pack

Multi-speed switches

With black thumb-grip and front plate
Without emergency switching off/emergency stop function

Two-speed, non reversing, for 2 separate windings

		6	6.5	20	T0-3-8451/E²⁾ 038849	1 Off
			13	32	T3-3-8451/E²⁾ 028641	1 Off
			22	63	T5B-3-8451/E⁴⁾ 092288	1 Off

2-speed, 2 directions, for one tapped winding

		3	6.5	20	T0-4-8440/E²⁾ 041222	1 Off
			13	32	T3-4-8440/E²⁾ 035760	1 Off
			22	63	T5B-4-8440/E⁴⁾ 092032	1 Off
		3	6.5	20	T0-4-8441/E²⁾ 043595	1 Off
			13	32	T3-4-8441/E²⁾ 042879	1 Off
			22	63	T5B-4-8441/E⁴⁾ 092028	1 Off

Reversing multi-speed switches

With black thumb-grip and front plate
Without emergency switching off/emergency stop function

2-speed, 2 directions, for one tapped winding

		—	6.5	20	T0-6-15866/E²⁾ 055460	1 Off
		—	13	32	T3-6-15866/E²⁾ 054744	1 Off
		—	22	63	T5B-7-15866/E⁴⁾ 214788	1 Off

Information relevant for export to North America



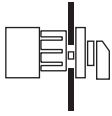
1) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	2) Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	3) Product Standards	UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No.	E36332	UL File No.	E36332	UL File No.	E36332
UL CCN	NLRV	UL CCN	NLRV	UL CCN	NLRV
CSA File No.	12528	CSA File No.	12528	CSA File No.	12528
CSA Class No.	3211-05	CSA Class No.	3211-05	CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified	NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect	Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP30; UL/CSA Type: —	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Switch-disconnectors – multi-speed switches

Center mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

Surface mounting

IP65



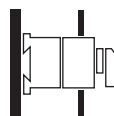
Part no.
Article no.

Price
See
price list

Std. pack

Distribution board
mounting

Front IP30



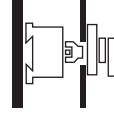
Part no.
Article no.

Price
See
price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See
price list

Std. pack

T0-3-8451/EZ⁽²⁾ 083936	1 Off  	T0-3-8451/I1 207133	1 Off	T0-3-8451/IVS⁽¹⁾ 026985	1 Off  	T0-3-8451/Z⁽²⁾ 043596	1 Off  
T3-3-8451/EZ⁽²⁾ 000956	1 Off  	T3-3-8451/I2⁽³⁾ 207189	1 Off  			T3-3-8451/Z⁽²⁾ 031014	1 Off  
		T5B-3-8451/I4⁽⁴⁾ 207228	1 Off  				
T0-4-8440/EZ⁽²⁾ 088682	1 Off  	T0-4-8440/I1 207141	1 Off	T0-4-8440/IVS⁽¹⁾ 029358	1 Off  	T0-4-8440/Z⁽²⁾ 048342	1 Off  
T3-4-8440/EZ⁽²⁾ 000959	1 Off  	T3-4-8440/I2⁽³⁾ 207196	1 Off  			T3-4-8440/Z⁽²⁾ 038133	1 Off  
	1 Off  	T5B-4-8440/I4⁽⁴⁾ 207235	1 Off  			T5B-4-8440/Z⁽⁴⁾ 092029	1 Off  
T0-4-8441/EZ⁽²⁾ 093428	1 Off  	T0-4-8441/I1 207142	1 Off	T0-4-8441/IVS⁽¹⁾ 031731	1 Off  	T0-4-8441/Z⁽²⁾ 053088	1 Off  
	1 Off  	T3-4-8441/I2⁽³⁾ 207197	1 Off  			T3-4-8441/Z⁽²⁾ 045252	1 Off  
	1 Off  	T5B-4-8441/I4⁽⁴⁾ 207236	1 Off  			T5B-4-8441/Z⁽⁴⁾ 092025	1 Off  
T0-6-15866/EZ⁽²⁾ 012747	1 Off  			T0-6-15866/IVS⁽¹⁾ 036477	1 Off  	T0-6-15866/Z⁽²⁾ 067326	1 Off  
						T3-6-15866/Z⁽²⁾ 057117	1 Off  

4)

Product Standards

UL 508; CSA-C22.2 No. 14-05;
IEC/EN 60947-3; CE marking

UL File No.

E36332

UL CCN

NLRV7

CSA File No.

12528

CSA Class No.

3211-05

NA Certification

UL Listed, CSA certified

Suitable for

Branch circuits, suitable as
motor disconnect

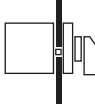
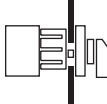
Degree of Protection

IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

Control switches – step switches

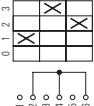
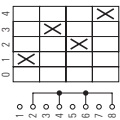
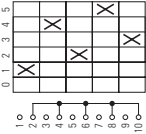
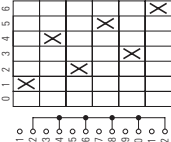
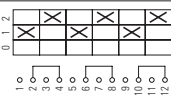
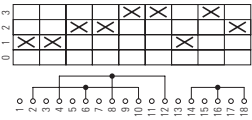
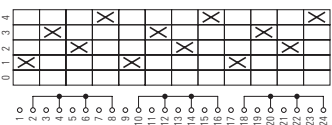
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Contact sequence			Flush mounting ¹⁾ Front IP65			Center mounting ¹⁾ Front IP65		
	Front plate no.	Main contacts						
		Pole N/O	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack

Step switches

With black thumb-grip and front plate
One contact closed per step
Without overlap

With 0 (Off) position

	 FS 418	1	T0-1-8240/E 034105	1 Off  	T0-1-8240/EZ 043597	1 Off  
	 FS 420	1	T0-2-8241/E 050716	1 Off  	T0-2-8241/EZ 053089	1 Off  
	 FS 422	1	T0-2-8242/E 067327	1 Off  	T0-2-8242/EZ 069700	1 Off  
	 FS 424	1	T0-3-8243/E 081565	1 Off  	T0-3-8243/EZ 083938	1 Off  
	 FS 426	1	T0-3-8244/E 095803	1 Off  	T0-3-8244/EZ 098176	1 Off  
	 FS 418	3	T0-3-8280/E 034106	1 Off  	T0-3-8280/EZ 036479	1 Off  
	 FS 420	3	T0-5-8281/E 048344	1 Off  	T0-5-8281/EZ 050717	1 Off  
	 FS 422	3	T0-6-8282/E 062582	1 Off  	T0-6-8282/EZ 064955	1 Off  

Information relevant for export to North America



1)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuits
Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

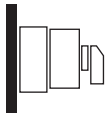
2)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuits
Degree of Protection IEC: IP30; UL/CSA Type: –

Cam switches, switch-disconnectors

Control switches – step switches

Surface mounting
IP65

totally insulated

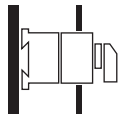


Part no.
Article no.

Price
See price
list

Std. pack

Distribution board mounting²⁾
Front IP30

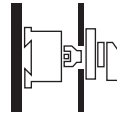


Part no.
Article no.

Price
See price
list

Std. pack

Rear mounting²⁾
Front IP65



Part no.
Article no.

Price
See price
list

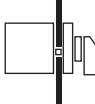
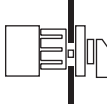
Std. pack

T0-1-8240/11 207079	1 Off	T0-1-8240/IVS 027076	1 Off  	T0-1-8240/Z 060208	1 Off  
T0-2-8241/11 207107	1 Off	T0-2-8241/IVS 057835	1 Off  	T0-2-8241/Z 062581	1 Off  
T0-2-8242/11 207108	1 Off	T0-2-8242/IVS 074446	1 Off  	T0-2-8242/Z 076819	1 Off  
T0-3-8243/11 207128	1 Off	T0-3-8243/IVS 088684	1 Off  	T0-3-8243/Z 091057	1 Off  
T0-3-8244/11 207129	1 Off	T0-3-8244/IVS 012749	1 Off  	T0-3-8244/Z 015122	1 Off  
T0-3-8280/11 207130	1 Off	T0-3-8280/IVS 041225	1 Off  	T0-3-8280/Z 043598	1 Off  
		T0-5-8281/IVS 055463	1 Off  	T0-5-8281/Z 057836	1 Off  
		T0-6-8282/IVS 069701	1 Off  	T0-6-8282/Z 072074	1 Off  

Cam switches, switch-disconnectors

Control switches – step switches, On-Off switches

T, P

Contact sequence	Front plate no.	Main contacts	Flush mounting ¹⁾ Front IP65	Center mounting ¹⁾ Front IP65				
								
		Pole N/O	Part no. Article no.	Price See price list	Std. pack	Part no. 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

		1	T0-1-8220/E 031728	1 Off  	T0-1-8220/EZ 095799	1 Off  
	FS 943					
		1	T0-2-8230/E 088685	1 Off  	T0-2-8230/EZ 091058	1 Off  
	FS 404					
		1	T0-2-8231/E 012750	1 Off  	T0-2-8231/EZ 015123	1 Off  
	FS 606					
		1	T0-3-8232/E 026988	1 Off  	T0-3-8232/EZ 029361	1 Off  
	FS 408					
		1	T0-3-8233/E 041226	1 Off  	T0-3-8233/EZ 043599	1 Off  
	FS 410					
		2	T0-4-8251/E 013971	1 Off  	T0-4-8251/EZ 013972	1 Off  
	FS 406					
		3	T0-3-8222/E 048339	1 Off  	T0-3-8222/EZ 015118	1 Off  
	FS 943					
		3	T0-5-8270/E 091059	1 Off  	T0-5-8270/EZ 093432	1 Off  
	FS 404					
		3	T0-6-8271/E 015124	1 Off  	T0-6-8271/EZ 017497	1 Off  
	FS 406					

Information relevant for export to North America



1)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuits
Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

2)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Suitable for Branch circuits
Degree of Protection IEC: IP30; UL/CSA Type: –

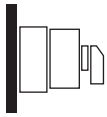
Cam switches, switch-disconnectors

Control switches – step switches, On-Off switches

Surface mounting

IP65

totally insulated



Part no.

Article no.

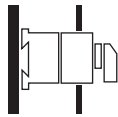
Price

See price list

Std. pack

Distribution board mounting²⁾

Front IP30



Part no.

Article no.

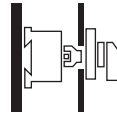
Price

See price list

Std. pack

Rear mounting¹⁾

Front IP65



Part no.

Article no.

Price

See price list

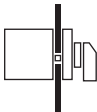
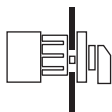
Std. pack

T0-1-8220/11 207078	1 Off	T0-1-8220/IVS 055459	1 Off  	T0-1-8220/Z 086312	1 Off  
T0-2-8230/11 207105	1 Off	T0-2-8230/IVS 095804	1 Off  	T0-2-8230/Z 098177	1 Off  
T0-2-8231/11 207106	1 Off	T0-2-8231/IVS 019869	1 Off  	T0-2-8231/Z 022242	1 Off  
T0-3-8232/11 207126	1 Off	T0-3-8232/IVS 034107	1 Off  	T0-3-8232/Z 036480	1 Off  
T0-3-8233/11 207127	1 Off	T0-3-8233/IVS 048345	1 Off  	T0-3-8233/Z 050718	1 Off  
T0-4-8251/11 218984	1 Off	T0-4-8251/IVS 013974	1 Off  	T0-4-8251/Z 013976	1 Off  
T0-3-8222/11 207124	1 Off	T0-3-8222/IVS 060205	1 Off  		
		T0-5-8270/IVS 098178	1 Off  	T0-5-8270/Z 010378	1 Off  
		T0-6-8271/IVS 022243	1 Off  	T0-6-8271/Z 024616	1 Off  

Cam switches, switch-disconnectors

Control switches – step switches, On-Off switches

T

Contact sequence	Front plate no.	Main contacts	Flush mounting ¹⁾			Center mounting ²⁾		
			Front IP65			Front IP65		
				Part no. Article no.	Price See price list	Std. pack		Part no. Article no.

On-Off switches

With black thumb-grip and front plate

		1	T0-1-15401/E 038854	1 Off 	T0-1-15401/EZ 041227	1 Off
		2	T0-1-15402/E 053092	1 Off 	T0-1-15402/EZ 055465	1 Off
		3	T0-2-15403/E 067330	1 Off 	T0-2-15403/EZ 069703	1 Off
		4	T0-2-15404/E 081568	1 Off 	T0-2-15404/EZ 083941	1 Off

Information relevant for export to North America



1)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

2)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP65; UL/CSA Type: –

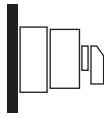
Cam switches, switch-disconnectors

Control switches – step switches, On-Off switches

Surface mounting

IP65

totally insulated



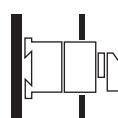
Part no.
Article no.

Price
See price list

Std. pack

Distribution board
mounting³⁾

Front IP30



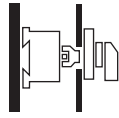
Part no.
Article no.

Price
See price list

Std. pack

Rear mounting

Front IP65



Part no.
Article no.

Price
See price list

Std. pack

T0-1-15401/11 207067	1 Off	T0-1-15401/IVS 045973	1 Off  
T0-1-15402/11 207068	1 Off	T0-1-15402/IVS 060211	1 Off  
		T0-2-15403/IVS 074449	1 Off  

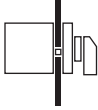
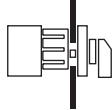
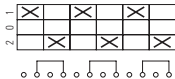
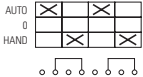
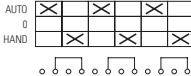
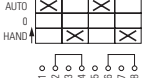
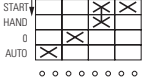
3)

Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits, suitable as motor disconnect
Degree of Protection	IEC: IP30; UL/CSA Type: –

Cam switches, switch-disconnectors

Control switches – changeover switches, manual/automatic switches

T

Contact sequence	Front plate no.	Main contacts	Flush mounting ¹⁾ Front IP65	Center mounting ¹⁾ Front IP65										
														
		Pole N/O	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack						
Changeover switches														
With black thumb-grip and front plate														
		1	T0-1-15421/E 095806	1 Off  	T0-1-15421/EZ 098179	1 Off  								
	FS 429	2	T0-2-15422/E 019871	1 Off  	T0-2-15422/EZ 022244	1 Off  								
		3	T0-3-15423/E 034109	1 Off  	T0-3-15423/EZ 036482	1 Off  								
Manual/Auto switches														
With 0 (Off) position														
		1	T0-1-15431/E 019872	1 Off  	T0-1-15431/EZ 022245	1 Off  								
	FS 1401	2	T0-2-15432/E 034110	1 Off  	T0-2-15432/EZ 036483	1 Off  								
		3	T0-3-15433/E 048348	1 Off  	T0-3-15433/EZ 050721	1 Off  								
With momentary from HAND														
		1	T0-1-15434/E 062586	1 Off  	T0-1-15434/EZ 018053	1 Off  								
	FS 1414000	2	T0-2-15435/E 003191	1 Off  	T0-2-15435/EZ 003192	1 Off  								
With momentary from START														
		2	T0-2-15907/E 066931	1 Off  	T0-2-15907/EZ 069304	1 Off  								
Without 0 (Off) position														
		1	T0-1-15451/E 076824	1 Off  	T0-1-15451/EZ 079197	1 Off  								
	FS 19334	2	T0-2-15452/E 091062	1 Off  	T0-2-15452/EZ 093435	1 Off  								
		3	T0-3-15453/E 015127	1 Off  	T0-3-15453/EZ 017500	1 Off  								

Information relevant for export to North America

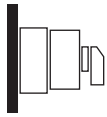


1)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Cam switches, switch-disconnectors

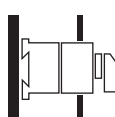
Control switches – changeover switches, manual/automatic switches

Surface mounting
IP65

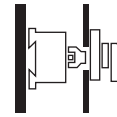


totally insulated

Distribution board mounting²⁾
Front IP30



Rear mounting¹⁾
Front IP65



Part no.
Article no.

Price
See price list

Std. pack

Part no.
Article no.

Price
See price list

Std. pack

Part no.
Article no.

Price
See price list

Std. pack

T0-1-15421/I1 207069	1 Off	T0-1-15421/IVS 012752	1 Off  	T0-1-15421/Z 015125	1 Off  
T0-2-15422/I1 207090	1 Off	T0-2-15422/IVS 026990	1 Off  	T0-2-15422/Z 029363	1 Off  
T0-3-15423/I1 207114	1 Off	T0-3-15423/IVS 041228	1 Off  	T0-3-15423/Z 043601	1 Off  
T0-1-15431/I1 207070	1 Off	T0-1-15431/IVS 026991	1 Off  	T0-1-15431/Z 029364	1 Off  
T0-2-15432/I1 207091	1 Off	T0-2-15432/IVS 041229	1 Off  	T0-2-15432/Z 043602	1 Off  
T0-3-15433/I1 207115	1 Off	T0-3-15433/IVS 055467	1 Off  	T0-3-15433/Z 057840	1 Off  
T0-1-15434/I1 207071	1 Off	T0-1-15434/IVS 069705	1 Off  	T0-1-15434/Z 072078	1 Off  
T0-2-15435/I1 218971	1 Off	T0-2-15435/IVS 003195	1 Off  	T0-2-15435/Z 003196	1 Off  
T0-2-15907/I1 207095	1 Off	T0-2-15907/IVS 076423	1 Off  	T0-2-15907/Z 078796	1 Off  
T0-1-15451/I1 207072	1 Off	T0-1-15451/IVS 083943	1 Off  	T0-1-15451/Z 086316	1 Off  
T0-2-15452/I1 207092	1 Off	T0-2-15452/IVS 098181	1 Off  	T0-2-15452/Z 010381	1 Off  
T0-3-15453/I1 207116	1 Off	T0-3-15453/IVS 022246	1 Off  	T0-3-15453/Z 024619	1 Off  

²⁾

Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification
Suitable for
Degree of Protection

UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
E36332
NLRV
12528
3211-05
UL Listed, CSA certified
Branch circuits
IEC: IP30; UL/CSA Type: –

Cam switches, switch-disconnectors

Control switches – On switches

T

Contact sequence	Front plate no.	Main contacts	Flush mounting Front IP65			Center mounting Front IP65			
									
		Pole N/O	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack	

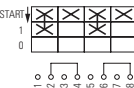
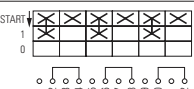
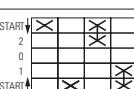
On switch (N/O)

With black thumb-grip and front plate
Momentary from position 1

		1	T0-1-15321/E 086317	1 Off  	T0-1-15321/EZ 088690	1 Off  
	FS 4721	2	T0-1-15322/E 010382	1 Off  	T0-1-15322/EZ 012755	1 Off  
		3	T0-2-15323/E 024620	1 Off  	T0-2-15323/EZ 026993	1 Off  
			T0-1-15366/E 081572		T0-1-15366/EZ 083945	
	FS 456					

ON-OFF momentary switches

With black thumb-grip and front plate
Momentary from START position

		1	T0-1-15511/E 019875	1 Off  	T0-1-15511/EZ 022248	1 Off  
	FS 147767	2	T0-2-15512/E 034113	1 Off  	T0-2-15512/EZ 036486	1 Off  
		3	T0-3-15513/E 048351	1 Off  	T0-3-15513/EZ 050724	1 Off  
		see K 115	T0-2-8177/E 015130	1 Off  	T0-2-8177/EZ 017503	1 Off  
	FS 140660					

Information relevant for export to North America



1)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

2)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP30; UL/CSA Type: –

Cam switches, switch-disconnectors

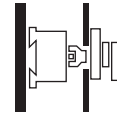
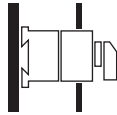
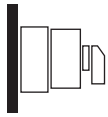
Control switches – On switches

Surface mounting
IP65

totally insulated

Distribution board mounting
Front IP30

Rear mounting
Front IP65



Part no.
Article no.

Price
See price list

Std. pack

Part no.
Article no.

Price
See price list

Std. pack

Part no.
Article no.

Price
See price list

Std. pack

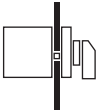
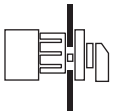
T0-1-15321/I1 207064	1 Off	T0-1-15321/IVS 093436	1 Off  	T0-1-15321/Z 095809	1 Off  
T0-1-15322/I1 207065	1 Off	T0-1-15322/IVS 017501	1 Off  		
T0-2-15323/I1 207087	1 Off	T0-2-15323/IVS 031739	1 Off  		

T0-1-15511/I1 207073	1 Off	T0-1-15511/IVS 026994	1 Off  	T0-1-15511/Z 029367	1 Off  
T0-2-15512/I1 207093	1 Off			T0-2-15512/Z 043605	1 Off  
T0-3-15513/I1 207117	1 Off				
T0-2-8177/I1 207101	1 Off	T0-2-8177/IVS 022249	1 Off  	T0-2-8177/Z 024622	1 Off  

Cam switches, switch-disconnectors

Control switches – changeover switches, manual/automatic switches

T

Contact sequence	Front plate no.	Main contacts	Flush mounting ¹⁾ Front IP65	Center mounting ¹⁾ Front IP65
				
		Pole N/O	Part no. Article no.	Part no. Article no.
			Price See price list	Price See price list
			Std. pack	Std. pack

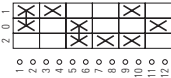
Universal control switches

With black thumb-grip and front plate

Maintained switches with 3 positions

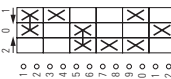
1 contact closed in each position

- Additionally 1 contact closed in position 0 and 1
- Additionally 1 contact closed in position 0 and 2
- Additionally 1 contact closed in position 0 and 3

		T0-3-15391/E 029365	1 Off  	T0-3-15391/EZ 031738	1 Off  
	FS 429				

Momentary from positions 1 and 2

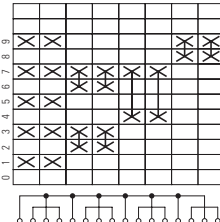
With black thumb-grip and front plate

		T0-3-15394/E 072079	1 Off  	T0-3-15394/EZ 074452	1 Off  
	FS 458				

Coding switches

With black thumb-grip and front plate

With complete rotation in both directions.

		Binary BCD code	T0-4-15602/E 029368	1 Off  	T0-4-15602/EZ 031741	1 Off  
	FS 312					

Series switches

With black thumb-grip and front plate

With 0 (Off) position

(heater switches)

		1	T0-1-91/E 072082	1 Off  	T0-1-91/EZ 074455	1 Off  
	FS 614					

Information relevant for export to North America



1)

Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

2)

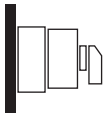
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP30; UL/CSA Type: –

Cam switches, switch-disconnectors

Control switches – changeover switches, manual/automatic switches

Surface mounting
IP65

totally insulated

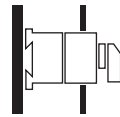


Part no.
Article no.

Price
See price
list

Std. pack

Distribution board mounting²⁾
Front IP30

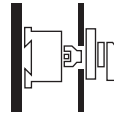


Part no.
Article no.

Price
See price
list

Std. pack

Rear mounting¹⁾
Front IP65



Part no.
Article no.

Price
See price
list

Std. pack

T0-3-15391/I1
207112

1 Off

T0-3-15391/IVS
036484

1 Off



T0-3-15394/I1
207113

1 Off

T0-3-15394/IVS
079198

1 Off



T0-3-15394/Z
081571

1 Off



T0-4-15602/I1
207134

1 Off

T0-4-15602/IVS
036487

1 Off



T0-4-15602/Z
038860

1 Off



T0-1-91/I1
207080

1 Off

T0-1-91/IVS
079201

1 Off



T0-1-91/Z
081574

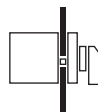
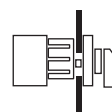
1 Off



Cam switches, switch-disconnectors

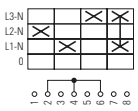
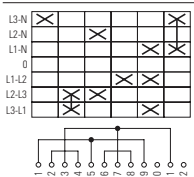
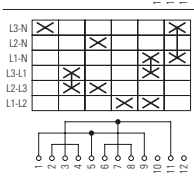
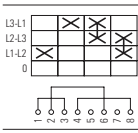
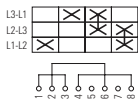
Control switches – Instrument switches

T

Contact sequence	Front plate no.	Pole	Main contacts	Flush mounting ¹⁾ Front IP65	Center mounting ¹⁾ Front IP65				
									
		Pole N/O		Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack

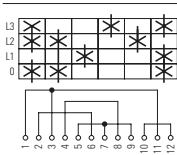
Voltmeter selector switch

With black thumb-grip and front plate

  FS 1410757	3 x phase-N with 0 position	3 + N	T0-2-15921/E 067337	1 Off 	T0-2-15921/EZ 069710	1 Off 
  FS 1410759	3 x phase-phase 3 x phase-N with 0 position	3 + N	T0-3-8007/E 095813	1 Off 	T0-3-8007/EZ 098186	1 Off 
  FS 164721	3 x phase-phase 3 x phase-N without 0 position with complete rotation in both directions	3 + N	T0-3-15924/E 019878	1 Off 	T0-3-15924/EZ 022251	1 Off 
  FS 1410755	3 x phase-phase with 0 position	3	T0-2-15920/E 038861	1 Off 	T0-2-15920/EZ 041234	1 Off 
  FS 164854	3 x phase-phase without 0 position	3	T0-2-15922/E 053099	1 Off 	T0-2-15922/EZ 055472	1 Off 

Ammeter selector switch

With black thumb-grip and front plate
With complete rotation in both directions.
Measurement via current transformer
With 0 (Off) position

  FS 9440			T0-3-8048/E 034116	1 Off 	T0-3-8048/EZ 036489	1 Off 
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Information relevant for export to North America



1)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

2)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch circuits
Degree of Protection	IEC: IP30; UL/CSA Type: –

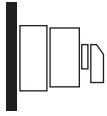
Cam switches, switch-disconnectors

Control switches – Instrument switches

Surface mounting

IP65

totally insulated



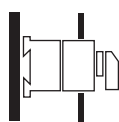
Part no.
Article no.

Price
See
price
list

Std. pack

Distribution board
mounting²⁾

Front IP30



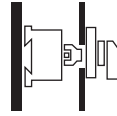
Part no.
Article no.

Price
See
price
list

Std. pack

Rear mounting¹⁾

Front IP65



Part no.
Article no.

Price
See
price
list

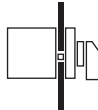
Std. pack

			T0-2-15921/IVS 074456	1 Off  	T0-2-15921/Z 076829	1 Off  
T0-3-8007/I1 207120	1 Off		T0-3-8007/IVS 012759	1 Off  	T0-3-8007/Z 015132	1 Off  
T0-3-15924/I1 207119	1 Off		T0-3-15924/IVS 026997	1 Off  	T0-3-15924/Z 029370	1 Off  
			T0-2-15920/IVS 029452	1 Off  	T0-2-15920/Z 048353	1 Off  
			T0-2-15922/IVS 060218	1 Off  	T0-2-15922/Z 062591	1 Off  
			T0-3-8048/IVS 041235	1 Off  	T0-3-8048/Z 043608	1 Off  

Cam switches, switch-disconnectors

Switches with locking mechanism

T

Contact sequence	Front plate no.	Main contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting IP65	Part no. Article no.	Price See price list	Std. pack
		Pole N/O	400 V P kW	I _u A				

Panic switch

Cylinder lock SVA

Without emergency switching off/emergency stop function, with two keys

With black thumb-grip and front plate

If the key is withdrawn in position 1 the switch can be switched off but not on again without the key.

	 FS 908	3	6.5	20		T0-2-1/E/SVA(S) 050977	1 Off
		3	13	25		P1-25/E/SVA(S) 050966	1 Off
		3	15	32		P1-32/E/SVA(S) 044977	1 Off

As an emergency switching off/emergency stop device

To IEC/EN 60204-1, VDE 0113 Part 1

With two keys

With red thumb-grip and yellow front plate

	 FS 908 GE	3	6.5	20		T0-2-1/E/SVA(S)-RT 228291	1 Off
		3	13	25		P1-25/E/SVA(S)-RT 050967	1 Off
		3	15	32		P1-32/E/SVA(S)-RT 050971	1 Off

Padlocking feature SVC

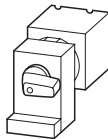
As an emergency switching off/emergency stop device

To IEC/EN 60204-1, VDE 0113 Part 1, with two keys

With red thumb-grip and yellow front plate

If the locking slide is padlocked in position 1 the switch can be switched off but not on again without removing the padlock.

Lockable with max. 3 padlocks.

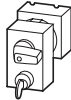
	 FS 908 GE	3	6.5	20		T0-2-1/E/SVC(S)-RT 044973	1 Off
		3	13	25		P1-25/E/SVC(S)-RT 044974	1 Off
		3	15	32		P1-32/E/SVC(S)-RT 044975	1 Off

On-Off switches

Without emergency switching off/emergency stop function

With black thumb-grip and front plate

Key can only be withdrawn in position 0 (Pos A)

	 FS 908	3	6.5	20		T0-2-1/E/SVA(A) 050976	1 Off
		3	13	25		P1-25/E/SVA(A) 050965	1 Off
		3	15	32		P1-32/E/SVA(A) 050970	1 Off

Key operation lock mechanism ST-0

Without emergency switching off/emergency stop function

With black thumb-grip and front plate

Key can only be withdrawn in position 0 (Pos A)

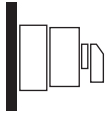
	 FS 908	2	6.5	20		T0-1-102/EZ/S 014933	1 Off
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Cam switches, switch-disconnectors

Switches with locking mechanism

Surface mounting
IP65

totally insulated

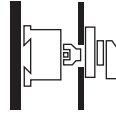


Part no.
Article no.

Price
See
price
list

Std. pack

Rear mounting
IP65



Part no.
Article no.

Price
See
price
list

Std. pack

Notes



T0-2-1/I1/SVA(S)

207084

1 Off

P1-25/I2/SVA(S)

207305

1 Off

P1-32/I2/SVA(S)

207326

1 Off



T0-2-1/I1/SVA(S)-RT

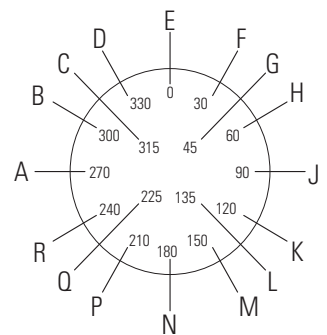
207085

1 Off

P1-25/I2/SVA(S)-RT

207306

1 Off



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



T0-2-1/I1/SVC(S)-RT

207086

1 Off

P1-25/I2/SVC(S)-RT

207307

1 Off

P1-32/I2/SVC(S)RT

207328

1 Off



T0-2-1/I1/SVA(A)

207083

1 Off

P1-25/I2/SVA(A)

207304

1 Off

P1-32/I2/SVA(A)

207325

1 Off



T0-2-1/Z/SVA(A)

050978

1 Off

P1-25/Z/SVA(A)

050969

1 Off



T0-1-102/I1/S

207063

1 Off



T0-1-102/Z/S

014971

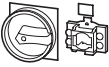
1 Off

Cam switches, switch-disconnectors

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

	Emergency switching off/emergency stop	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Main switch assembly kits						
Padlocking feature only for main switch Permissible with T0 with up to max. 4 contact units Permissible with T3 with up to max. 6 contact units						
	With red rotary handle and yellow locking collar	As an emergency switching off/emergency stop device To IEC/EN 60204-1, VDE 0113 Part 1	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	SVB-T0 057892	1 off  	- For locking the 0 position - For switches with positions 0-I at 90° - Switching angle as front plate FS908 - Lockable with max. 3 padlocks
			T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	SVB-P3 052999	1 off  	
	With black rotary handle and black locking collar	Without emergency switching off/emergency stop function	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2	SVB-SW-T0 060265	1 off  	
			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 only for main switch Permissible with T0 with up to max. 4 contact units Permissible with T3 with up to max. 6 contact units						
	With red rotary handle and yellow locking collar	As an emergency switching off/emergency stop device To IEC/EN 60204-1, VDE 0113 Part 1	T0-.../E, .../Z T3-.../E, .../Z	V/EA/SVB-T0 062638	1 off  	- For converting flush mounting switch T.../E into flush mounting main switch T.../EA/SVB... - For converting rear mounting switch T.../Z (with FS908 front plate) into interlocked rear mounting main switch T.../V/SVB
			T5(B)-.../E, .../Z	V/EA/SVB-T5 045065	1 off  	
	With black rotary handle and black locking collar	Without emergency switching off/emergency stop function	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

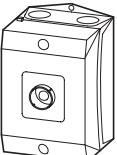
	Black	—	T0-.../E, .../EZ, .../IVS, .../Z, .../I1 T3-.../E, .../EZ, .../IVS, .../Z, .../I2 P1-.../E, .../EZ, .../IVS, .../Z, .../I2	KNB-T0 038909	10 off  	—
	Red	Only for emergency switching off/emergency stop switches To IEC/EN 60204-1, VDE 0113 Part 1	T0-.../E, .../IVS, .../Z, .../I1 T3-.../E, .../IVS, .../Z, .../I2 P1-.../E, .../IVS, .../Z, .../I2	KNB-RT-T0 043655	10 off  	Order yellow FS908GE-T0 front plate additionally
	Black	—	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	KNB-P3 041282	10 off  	—
	Red	Only for emergency switching off/emergency stop switches To IEC/EN 60204-1, VDE 0113 Part 1	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	KNB-RT-P3 046028	10 off  	Order additional yellow front plate FS908GE-P3

Maintenance key for interlocked main switches

		T0...	KNK-T0 000650	5 off  	Special devices for electricians: interlocked main switches can be switched on and off for repairs with the maintenance key while the door is open (as per IEC/EN 60204-1, Section 5.1.1.1)
		P1...			
		P3...	KNK-P3 000649	5 off  	

ATEX type

According to 94/9EG
Test Certificate BVS04E106X

	With metric knock-outs M20	T0-.../I1	+ATEX-I1 237513	1 off	Only available together with basic unit
	With solid side walls	T3-.../I2 P1-.../I2	+ATEX-I2 237514	1 off	
		T5B-.../I4 P3-.../I4	+ATEX-I4 237516	1 off	
		T5-.../I5 P3-.../I5	+ATEX-I5 237517	1 off	

Information relevant for export to North America

  UL/CSA certification not required

FS...-T0(P3)

Switch size	Dimensions (W x H x D) mm	For use with	Blank plate Can be engraved Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  
Standard front plate						
Suitable for laser inscription						
T0, T3, P1	45 x 45	(for frame 48 x 48)	FS(*)-T0 231893		10 off  	UL/CSA certification not required
P3, T5, T5B	84 x 84	(for frame 88 x 88)	FS(*)-P3 231895		10 off  	
Emergency switching off/emergency stop front plates						
T0, T3, P1	45 x 45	(for frame 48 x 48)	FS908GE-T0 003198		5 off  	
P3, T5, T5B	84 x 84	(for frame 88 x 88)	FS908GE-P3 031475		5 off  	
Blank plate						
Can be engraved						
P3, T5, T5B	84 x 84	(for frame 88 x 88)	FS-ALU980-P3 266906		10 off  	
T0, T3, P1	45 x 45	(for frame 48 x 48)	FS-ALU980-T0 266905		50 off  	

Notes

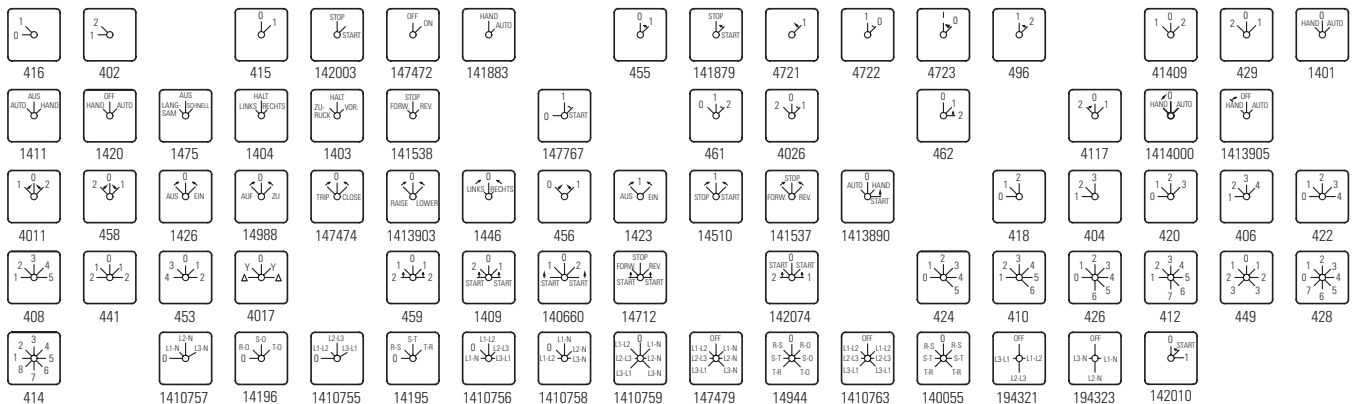
Standard front plate

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

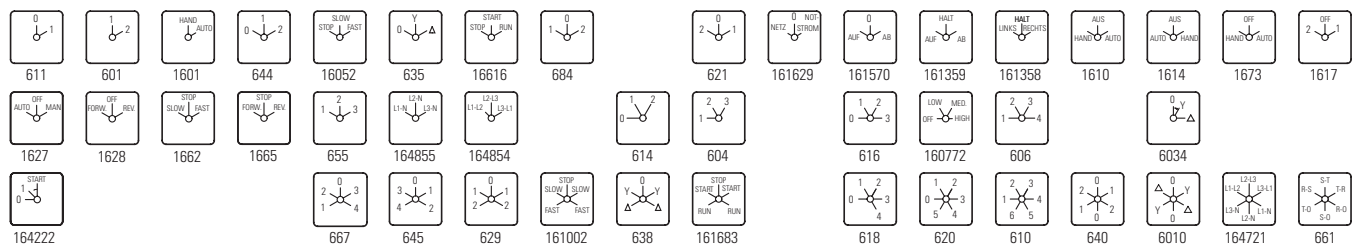
Switching angle 30°



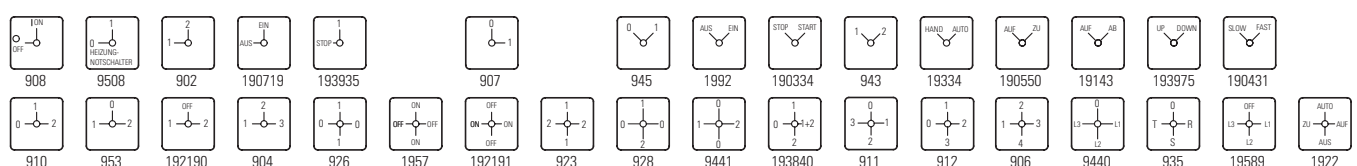
Switching angle 45°



Switching angle 60°



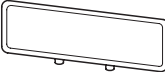
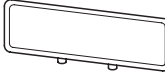
Switching angle 90°



Cam switches, switch-disconnectors

Add-on front plates

ZFS...

Language		Cam switches T0, T3, P1	Switch-disconnectors T5(B), P3				
		Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
Add-on front plate, clip-on, complete							
For padlocking features consisting of of label mount and insert label							
							
- Inscribed with standard text "Main switch - Open only in 0 position" in various languages - Front plates are already included as a standard with: T.../EA/SVB, P.../EA/SVB main switches for flush mounting T.../V/SVB, P.../V/SVB main switches for rear mounting							
Inscribed with standard text	German/English	ZFS61/62-T0 030170	25 off  	ZFS61/62-P3 065739	25 off  		
	French	ZFS63-T0 047424	25 off  	ZFS63-P3 047423	25 off  		
	Italian	ZFS68-T0 065751	25 off  				
	Portuguese	ZFS72-T0 205541	25 off  				
	Swedish	ZFS75-T0 205544	25 off  				
	Spanish	ZFS77-T0 065752	25 off  	ZFS77-P3 047422	25 off  		
	Hungarian	ZFS80-T0 205548	25 off  	ZFS80-P3 205565	25 off  		
Blank, can be engraved	None	ZFS60-T0 019924	25 off  	ZFS60-P3 022297	25 off  		
Label mounts, black, clip-on							
							
Insert label							
							
P5 switch-disconnector add-on front plate							
Clip-on Enter country reference when ordering: D = German GB = English F = French I = Italian E = Spanish							
	P5-.../EA/SVB P5-.../V/SVB	ZFS(*)-P5 105225	1 off  				
Information relevant for export to North America							
 							
UL/CSA certification not required							

Cam switches, switch-disconnectors

Key operation, padlocking feature

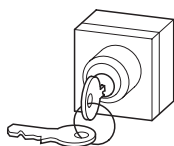
S..., SVA..., SVC...

For use with

Withdrawability

S-T0 key operated lock mechanism, front IP53

With two keys



KMS 1 lock mechanism: individual lock mechanism, not suitable for master key systems
Key withdrawable in all positions

KMS 2-10, KMS 201-400 lock mechanisms: individual lock mechanisms, not suitable for master key systems
Key withdrawable in all positions

Lock KMS1: Switches with FS908 are possible as main switch.

Key can be withdrawn in positions as specified

SA(...) = master key system (master-key facility) with security certificate. Ordering only with lock plan filled out with the **full configuration of the envisaged lock system**.

When reordering state item number from the lock plan, e.g (A 6294-1.2).

Key can be withdrawn in positions as specified

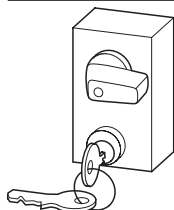
T0-1.../I1 to T0-4.../I1
T0-1.../E to T0-6.../E
T0-1.../Z to T0-6.../Z
T3-1.../E to T3-5.../E
T3-1.../Z to T3-5.../Z
T3-1.../I2 to T3-4.../I2
P1-.../E
P1-.../I2
P1-.../Z

Withdrawable positions can be programmed by user

Withdrawable positions programmed at factory as ordered

SVA-T3 cylinder lock, front IP65

With two keys



KMS 1 lock mechanism: individual lock mechanism, not suitable for master key systems
Key withdrawable in all positions

KMS 2-10, KMS 201-400 lock mechanisms: individual lock mechanisms, not suitable for master key systems
Key withdrawable in all positions

Lock KMS1: Switches with FS908 are possible as main switch.

Key can be withdrawn in positions as specified

SA(...) = master key system (master-key facility) with security certificate. Ordering only with lock plan filled out with the **full configuration of the envisaged lock system**.

When reordering state item number from the lock plan, e.g (A 6294-1.2).

Key can be withdrawn in positions as specified

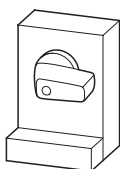
T0-.../E, T0-.../I1, T0-.../Z
T3-.../E, T3-.../I2, T3-.../Z
P1-.../E, P1-.../I2, P1-.../Z

Withdrawable positions can be programmed by user

Withdrawable positions programmed at factory as ordered

SVC-T3 padlocking feature, front IP65

The locking slide can be locked with a max. of 3 padlocks when in its pressed, interlocked position



All positions can be locked

T0-.../E, T0-.../I1, T0-.../Z
T3-.../E, T3-.../I2, T3-.../Z
P1-.../E, P1-.../I2, P1-.../Z

The positions that can be locked can be programmed by the user

Specific positions or ranges can be locked

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, P1-.../E

The positions that can be locked are programmable at the factory as ordered

Cam switches, switch-disconnectors

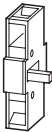
Key operation, padlocking feature

Part no. Article no.	Price See price list	Std. pack	Notes
S-T0 086709		1 off	The key replaces the thumb-grip, cannot be switched without key. The switch position indication is on the lock. Normally the key is withdrawable in every position. On cam switches ordered with front plate FS908 together with key operation, the key is only withdrawable in the 0 position. The key withdraw can be changed (also retrospectively) with the locking cam "VR-T0". When retrofitting the key operation, the existing front plate of the cam switch must be used. Keys → Page 66
S-SOND-KMS(*)-T0 231957		1 off	
S(*)-T0 231959		1 off	
S(*)-SOND-SA(*)-T0 231965		1 off	
SVA-T3 050974		1 off	
SVA-SOND-KMS(*)-T3 231967		1 off	
SVA(*)-T3 907745		1 off	
SVA(*)-SOND-SA(*)-T3 231971		1 off	
SVC-T3 050975		1 off	
SVC(*)-T3 907748		1 off	

Cam switches, switch-disconnectors

Neutral conductor, auxiliary contact, mounting accessories

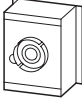
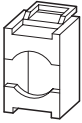
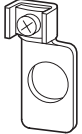
N-P1, N-P3, N-P5

	For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America  	
Neutral conductor						
Early-make on switching, late-break off switching The N contact always behaves as an early-make contact when switching on and as a late-break contact when switching off. N-P1(P3)... switching capacity same as for contacts P1(P3)-...						
	For left or right side mounting	P1-.../E, .../EA, .../EZ	N-P1E 000651	5 off  	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking CSA report applies to both Canada and US
					UL File No.	—
					UL CCN	—
					CSA File No.	12528
					CSA Class No.	3211-05
					NA Certification	UL Listed, CSA certified
For P1-.../I2: optionally, N-P1Z or HI11-P1/P3Z, can only be fitted on the left	P1-.../Z, .../V, .../I2, .../IVS	N-P1Z 000652	5 off  	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	
	P3-.../E, .../EA...	N-P3E 062432	5 off  	UL File No.	E36332	
				UL CCN	NLRV	
	P3-.../Z, .../V, .../IVS	N-P3Z 064805	5 off  	CSA File No.	12528	
	P3-63.../Z, .../I4			CSA Class No.	3211-05	
	P3-100.../Z, .../I5			NA Certification	UL Listed, CSA certified	
Neutral terminal						
Front mounting, left Service distribution board mounting, right						
	P5-125(160)/E(EA)	N-P5-125/160E 280969	1 off			
	P5-125(160)/Z(V)	N-P5-125/160Z 280970	1 off			
	P5-250(315)/E(EA)	N-P5-250/315E 280971	1 off			
	P5-250(315)/Z(V)	N-P5-250/315Z 280972	1 off			
Ground terminal						
Front mounting, right Service distribution board mounting, left						
	P5-125(160)/E(EA)	PE-P5-125/160E 280973	1 off			
	P5-125(160)/Z(V)	PE-P5-125/160Z 280974	1 off			
	P5-250(315)/E(EA)	PE-P5-250/315E 280975	1 off			
	P5-250(315)/Z(V)	PE-P5-250/315Z 280976	1 off			
Auxiliary contacts						
1 normally open (N/O), 1 normally close contact (N/C) Late-break on switching, early-make off switching. The N/O is always connected as a load-shedding contact.						
	For left and/or right side mounting	P1-.../E, .../EA..., .../EZ P3-.../E, .../EA	HI11-P1/P3E 061813	5 off  	Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
	For P1-.../I2: optionally, HI11-P1/P3Z or N-P1Z, can only be fitted on the left	P1-.../Z, .../V, .../I2, .../IVS P3-63/Z, .../V, .../I4, .../IVS P3-100/Z, .../V, .../I5, .../IVS	HI11-P1/P3Z 062031	5 off  	UL File No.	E36332
					UL CCN	NLRV
					CSA File No.	12528
					CSA Class No.	3211-05
					NA Certification	UL Listed, CSA certified
2 normally open (N/O), 1 normally close contact (N/C)						
	For left and/or right side mounting	P5-125(160)/E(EA)	HI21-P5-125/160E 280963	1 off		
		P5-125(160)/Z(V)	HI21-P5-125/160Z 280964	1 off		
		P5-250(315)/E(EA)	HI21-P5-250/315E 280965	1 off		
		P5-250(315)/Z(V)	HI21-P5-250/315Z 280966	1 off		
Center mounting accessories						
For single-hole fitting 22.3 mm						
	For cam switches with existing front plate - quick installation with snap fitting system	T0-.../E T3-.../E	EZ-T0 081622	1 off  	UL/CSA certification not required	
	Mounting diameter 22.3 mm, one man mounting with screw fixing	T0-.../E T3-.../E P1-.../E	EZ-P1 091455	1 off  		

Cam switches, switch-disconnectors

Coupling drive, interlock parts, shaft extension

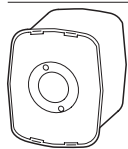
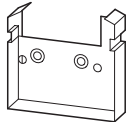
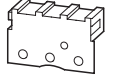
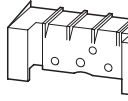
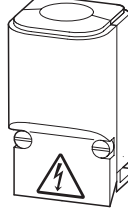
DE-T0(P3), ZAV-T0(P3)

	For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America  
Service distribution board mounting accessories						
Including push-fit shaft						
	For retrofitting in service distribution board mounting T0-.../IVS design. Use the basic switch's front plate.	T0-.../XZ IVS-T0 091114		1 off  		UL/CSA certification not required
Coupling drive						
Including push-fit shaft						
	For the retrofitting of switch T0(T3)-.../XZ as rear mounting, spare part for T0(T3)/(P1)-.../Z	— DE-T0 093487		1 off  		UL/CSA certification not required
	For the conversion of T5(B)-.../E flush mounting switch to rear mounting, spare part for T5(B)/(P3)-.../Z	— DE-P3 093972		3 off  		UL/CSA certification not required
Interlock sections						
With PE and neutral conductor connection Mounting on the back of flush mounting switch, with interlock function in rear mounting switches.						
		T0-.../E, ...EZ, ...Z T3-.../E, ...EZ, ...Z P1-.../E, ...EZ, ...Z UV-T0 019925		1 off  	Mounting on the back of flush mounting switch	UL/CSA certification not required
		T5(B)-.../E, ...Z P3-.../E, ...Z UV-P3 048289		1 off  	With interlock function for rear mounting switches	UL/CSA certification not required
Interlock extensions						
A max. of 4 units can be plugged on the interlock section every 25 mm (an equal number of shaft extensions is required for this)						
	Use only with T0/T3-... and P3-.../Z designs	UV-T0 ZVV-T0 022298		10 off  	—	UL/CSA certification not required
	Use only with T5(B)-.../Z and P3-.../Z designs	UV-P3 ZVV-P3 024671		10 off  	—	UL/CSA certification not required
Shaft extensions						
A max. of 4 units can be put on the switch shaft every 25 mm						
		T0-.../Z, T0-.../V T3-.../Z, T3-.../V P1-.../Z, P1-.../V ZAV-T0 027044		10 off  	—	UL/CSA certification not required
		T5(B)-.../Z P3-.../Z P3-.../V ZAV-P3 029417		10 off  	—	UL/CSA certification not required
Shaft						
	Aluminum, length: 480 mm	P5-.../V... P5-.../Z ZAV-P5 280979		1 off  		UL/CSA certification not required
Interlock extensions und shaft extensions, complete						
	Extension to 25 mm When ordering with basic unit	+ZAV(X1)+ZVV(X1)-T0/P3 254546		1 off  		UL/CSA certification not required
Control cable terminal						
		P5-250/315 ST-P5-250/315 280978		1 off  	Terminal capacity: • Solid or stranded: 4 mm² • Flexible with ferrules to DIN 46228: 4 mm²	UL/CSA certification not required

Cam switches, switch-disconnectors

Shrouds, keys

H...

		For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Shrouds¹⁾						
	For flush mounting switches with up to 4 contact units	T0-.../E T3-.../E	H3-T0 093828		1 off  	Cable entries Quantity: 2 x Ø 20 mm + 2 x Ø 15 mm Cross-section: 5 x 6 mm ² 5 x 2.5 mm ²
	For covering the connection terminals of up to 2 contact units	T5(B)-.../E, .../Z	H1-T5 045062		1 off  	Can be optionally used for input wiring and/or outgoer
	Extension for H1-T5 protective shroud on 3 - 8 contact units	H1-T5	HZ-T5 045063		10 off  	One HZ-T5 required per contact unit
	For covering the connection terminals on 3 pole switch-disconnectors	P1-.../E, .../EZ, .../Z, .../EA, .../V	H-P1 017253		5 off  	Can be optionally used for input wiring and/or outgoer
	For covering the connection terminals on 4 pole switch-disconnectors	P1-...N, ...HI11, ...N...HI11	H-P14 019626		5 off  	Can be optionally used for input wiring and/or outgoer
	For covering the connection terminals on 3 pole open switch-disconnectors with N neutral conductor and/or HI11 auxiliary contact	P3-.../E, .../Z, .../EA, .../V P3-...N, ...HI11, ...N...HI11	H-P3 021999		5 off  	The protective shroud is designed for mounting on the switch-disconnector on both sides; non-required parts can be broken off.
	For covering the terminals	P5	H-P5-125/160 293977		1 off  	
	For covering the terminals	P5	H-P5-250/315 293978		1 off  	
	Set (6 units) for covering the connection terminals	T8-3-8342/...	H-T8 200184		6 off  	
Key						
	For KMS 1 individual lock mechanism	–	ES-KMS1-T0 231972		10 off	
	For KMS 2 - 10 or KMS 201 - 400 individual lock mechanism	–	ES-KMS(*)-T0 231973		1 off	
	Individual key, stainless, for master key system and stored individual lock mechanisms, state lock plan no. and key.	–	HS-SA(*)-T0 256151		1 off	Master key must be ordered additionally. The security certificate must be sent when reordering. Ordering example: HS-SA(A6294-1.2)-T0
Locking cams (2 cams per set)						
	For later change of key withdrawability in the engagement positions	S-T0 for all switching angles	VR-T0 089082		1 off  	
	For changing the blocked positions/ranges	SVA-T3 SVC-T3	VR-T3 050987		1 off  	
Mounting plate shield²⁾						
To connect the shielding	CI-K2		MBS-I2 290191		1 off	
To connect the shielding	CI-K4		MBS-I4 118742		1 off	

Information relevant for export to North America



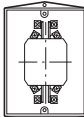
1)
UL/CSA certification not required

2)
Product Standards

UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification

UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
E36332
NLRV
12528
3211-07
UL Listed, CSA certified

Insulated enclosures, accessories

			For use with	Part no. Article no.	Price See price list	Std. pack	Notes
IP65 insulated enclosures							
	1 - 2 contact units	With push-through cable entry diaphragm.	T0-.../Z	CI-K1-T0-2 207435		1 off	The diaphragm can be pierced with the cable Main current/control current: 12 mm/- 16 mm/8 mm 1 contact unit = 2 contacts
	3 - 4 contact units		T0-.../Z	CI-K1-T0-4 207436		1 off	
	1 - 2 contact units		T3-.../Z	CI-K2-T3-2¹⁾ 207437	 	1 off	
	3 - 4 contact units		T3-.../Z	CI-K2-T3-4¹⁾ 225325	 	1 off	
	5 contact units	T3-.../Z	CI-K2-T3-5¹⁾ 207438	 	1 off		
	1 - 2 contact units	With metric knockouts	T0-.../Z	CI-K1H-T0-2 105854		1 off	
	3 - 4 contact units		T0-.../Z	CI-K1H-T0-4 105855		1 off	
	1 - 2 contact units		T3-.../Z	CI-K2H-T3-2 269462		1 off	
	3 - 4 contact units		T3-.../Z	CI-K2H-T3-4 105859		1 off	
	5 contact units		T3-.../Z	CI-K2H-T3-5 105860		1 off	
	1 - 2 contact units		T5B-.../E	CI-K4-T5B-2 207439	 	1 off	For converting T5-.../Z into T5-.../I5 and T5B-.../E into T5B-.../I4: Order AW-T5-... extension terminal additionally 1 contact unit = 2 contacts
	3 - 4 contact units		T5B-.../Z	CI-K4-T5B-4 207440	 	1 off	
	1 - 2 contact units		T5-.../Z	CI-K5-T5-2 207441	 	1 off	
	3 - 4 contact units		T5-.../Z	CI-K5-T5-4 207442	 	1 off	
	Only available together with basic unit		T0-.../I1	+I1H 105870		1 off	
	Only available together with basic unit		T3-.../I2 P1-.../I2	+I2H 105871		1 off	
Neutral terminals							
For connection of a 5th conductor			CI-K2-PK20-...	K-CI-K1/2²⁾ 207451		20 off  	
			T5B-.../I4, CI-K4-T5B-... P3-.../I4, CI-K4	K-CI-K4²⁾ 206916		20 off  	
			T5-.../I5, CI-K5-T5-... P3-.../I5, CI-K5	K-CI-K5²⁾ 218488		20 off  	
Set of external fixing brackets							
			T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5	AB-CI-K4/5²⁾ 206914		1 off  	For fixing CI-K4 and CI-K5 directly on walls. One set contains 4 brackets.
Set of extension terminals							
For retrofitting for connection inside enclosure							
	For the bottom contact unit		T5B-.../I4 T5-.../I5	AW-T5-1/2²⁾ 032601		10 off  	Already included in equipment supplied with T5B-.../I4 and T5-.../I5.
	For the second contact unit from the bottom		T5-.../I5	AW-T5-3/4²⁾ 032602		1 off  	Already included in equipment supplied with T5B-.../I4 and T5-.../I5.

Notes

Information relevant for export to North America



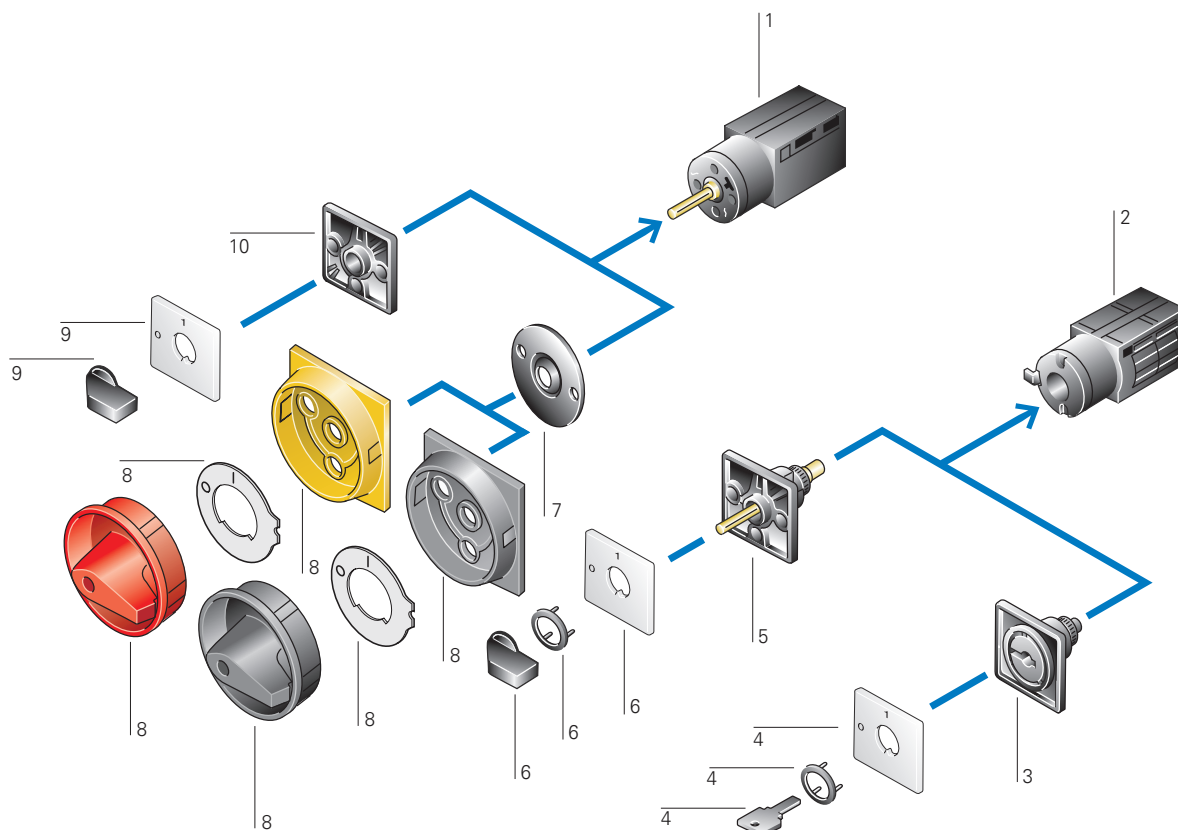
- ¹⁾ Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94;
IEC/EN 60947-3; CE marking
- UL File No. E54120
UL CCN MITW2
CSA File No. 12528
CSA Class No. 3211-07
NA Certification UL Listed, CSA certified
Degree of Protection IEC: IP65; UL/CSA Type1, 3R, 4X, 12, 13 – indoor
and outdoor use

- ²⁾ UL/CSA certification not required

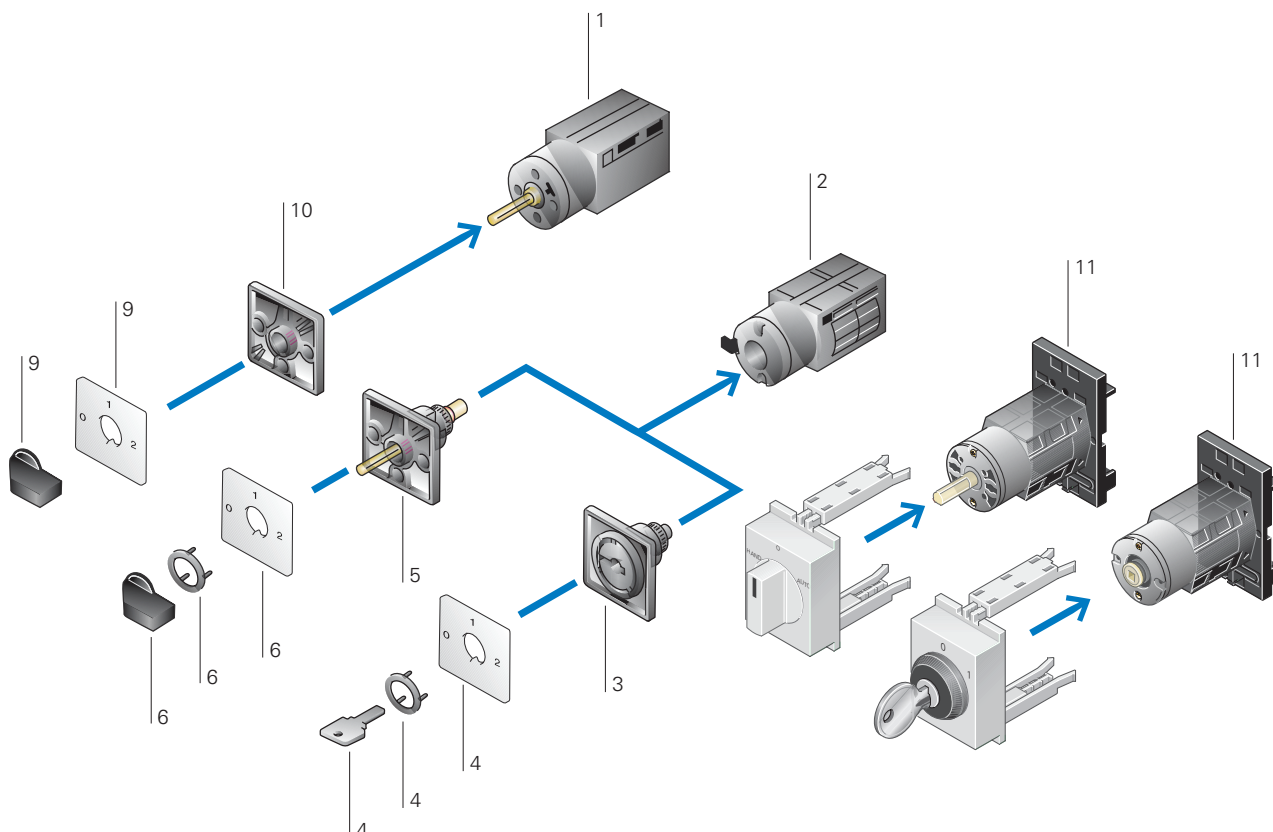
Mini cam switches

System overview

TM ON-OFF switches



TM control switch



Flush mounting (.../E)	1
Front IP65	
Mounting from rear in panel sides, plates or doors	
Terminals	
Crosshead screwdriver Pozidriv	
Finger proof	
→ Page 70	
Flush mounting control circuit isolator (.../E/SVB)	1
Front IP65	
TO IEC/EN 60 947-5, VDE 0660	
0 position lockable with 2 padlocks 4 mm Ø or 1 padlock 6 mm Ø	
Can be used with up to 250 V AC per contact	
Maximum 6 contacts permissible	
→ Page 70	

Center mounting (.../EZ)	2
Front IP65	
Mounted in 16.2 Ø or 22.3 Ø fixing hole, as specified in IEC/EN 60 947-5-1, after the included adapter is removed	
→ Page 70	
Key operation for center mounting	3, 4
2 keys are supplied	
Key withdrawable 90°	
Key withdrawable 60° with RONIS lock cylinder.	
→ Page 77	

Standard switches for center mounting	5, 6
Black thumb-grip	
→ Page 70	
Control circuit isolators	7, 8
Red rotary handle and yellow locking collar	
Black rotary handle and black locking collar	
Lockable in the 0 position	
→ Page 70	
Standard switches for flush mounting	9, 10
Black thumb-grip	
→ Page 71	
Standard switches for IVS distribution board mounting	11
Mounting in installation distribution board	
Overall width: 2 space units (45 mm mounting depth)	
Up to 2 contact units	

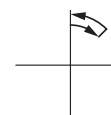
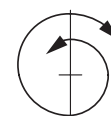
Product features

Contact chamber

- Rated uninterrupted current 10 A
- Positively opening contacts
- 1 – 2 contacts per contact chamber, up to 16 contacts per switch
- For switching unequal potentials
- Control circuit reliability

Switch position

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

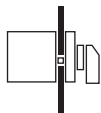


Mini cam switches

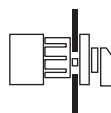
Control circuit isolators, ON/OFF switches

TM

Flush mounting
Front IP65



Center mounting
Front IP65



Contact sequence

Front plate
no.

Pole

Part no.
Article no.

Price
See
price
list

Std. pack

Part no.
Article no.

Price
See
price
list

Std. pack

Control circuit isolators, 90°

with padlocking feature
Lockable in the 0 (Off) 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	1 off	
		2	TM-1-8291/E/SVB 045478	1 off	
		2	TM-1-8291/E/SVB-SW 215352	1 off	
		3	TM-2-8292/E/SVB 045484	1 off	
		3	TM-2-8292/E/SVB-SW 210955	1 off	
		3 + N	TM-2-8293/E/SVB 045485	1 off	
		6	TM-3-8326/E/SVB 045498	1 off	

On-Off switches, 90°

		1	TM-1-8290/E 070131	1 off		TM-1-8290/EZ 000693	1 off	
		2	TM-1-8291/E 072504	1 off		TM-1-8291/EZ 015073	1 off	
		3	TM-2-8292/E 074877	1 off		TM-2-8292/EZ 015096	1 off	
		3 + N	TM-2-8293/E 077250	1 off		TM-2-8293/EZ 045486	1 off	
		6	TM-3-8326/E 079623	1 off				

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada

TM

Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
Changeover switches without 0 (Off) position 60°								
	 F 072	1	TM-1-8220/E 081996		1 off 	TM-1-8220/EZ 000692		1 off
		2	TM-2-8221/E 084369		1 off 	TM-2-8221/EZ 015197		1 off
		3	TM-3-8222/E 086742		1 off 	TM-3-8222/EZ 045493		1 off
		4	TM-4-8223/E 089115		1 off 	TM-4-8223/EZ 046119		1 off
		5	TM-5-8369/E 091488		1 off 	TM-5-8369/EZ 046126		1 off
		6	TM-6-8370/E 093861		1 off 			
Changeover switches with 0 (Off) position 60°								
	 F 071	1	TM-1-8210/E 096234		1 off 	TM-1-8210/EZ 015137		1 off
		2	TM-2-8211/E 098607		1 off 	TM-2-8211/EZ 015166		1 off
		3	TM-3-8212/E 010807		1 off 	TM-3-8212/EZ 045491		1 off
		4	TM-4-8213/E 013180		1 off 	TM-4-8213/EZ 045847		1 off
Changeover switches with 0 (Off) position 90°								
	 F 057	2	TM-2-8219/E 017926		1 off 			
		3	TM-3-8299/E 020299		1 off 			

Information relevant for export to North America



Product Standards
UL File No.
UL CCN
CSA File No.
CSA Class No.
NA Certification

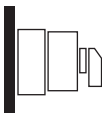
UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
E36332
NLRV
UL report applies to both US and Canada
—
UL Listed, certified by UL for use in Canada

Mini cam switches

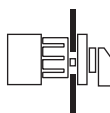
Manual/auto switches, changeover switches

TM

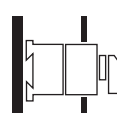
Flush mounting
Front IP65



Center mounting
Front IP65



Distribution board - mounting
Front IP30



Contact sequence

Front plate no.

Pole

Part no.
Article no.

Price
See price list

Part no.
Article no.

Price
See price list

Part no.
Article no.

Price
See price list

Std. pack

Manual/auto switch 60°



1

TM-1-8220F288/EZ
016925

1 off



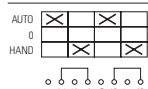
1

TM-1-15431/E
025045

TM-1-15431/EZ
000691

TM-1-15431/IVS
225342

1 off

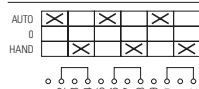


2

TM-2-15432/E
027418

TM-2-15432/EZ
016878

1 off



3

TM-3-15433/E
029791

TM-3-15433/EZ
045490

1 off

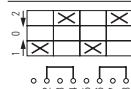
Changeover switches with spring-return from both directions, 30°



1

TM-1-8214/E
032164

1 off



2

TM-2-8215/E
034537

1 off

Step switches without 0 (Off) position

3 steps, 60°

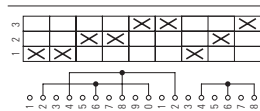


1

TM-2-8230/E
039283

TM-2-8230/EZ
000701

1 off



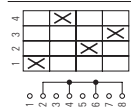
3

TM-5-8270/E
041656

TM-5-8270/EZ
046124

1 off

4 steps, 60°

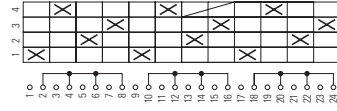


1

TM-2-8231/E
044029

TM-2-8231/EZ
000700

1 off



3

TM-6-8271/E
046402

TM-6-8271/EZ
046128

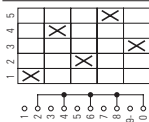
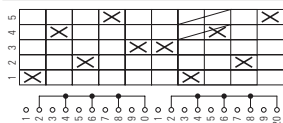
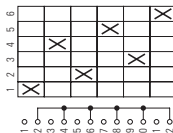
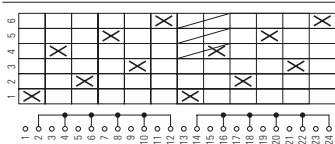
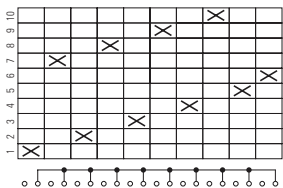
1 off

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CEN	NLRV
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada

TM

Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Center mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
Step switches without 0 (Off) position									
5 steps, 60°									
	F 078	1	TM-3-8232/E 039298		1 off  	TM-3-8232/EZ 015592		1 off  	
	F 078	2	TM-5-8252/E 041671		1 off  	TM-5-8252/EZ 046123		1 off  	
6 steps 60°, no full rotation									
	F 079	1	TM-3-8233/E 053521		1 off  	TM-3-8233/EZ 015630		1 off  	
	F 079	2	TM-6-8253/E 055894		1 off  	TM-6-8253/EZ 046127		1 off  	
10 steps, 30°									
	F 011	1	TM-5-8237/E 069150		1 off  	TM-5-8237/EZ 015661		1 off  	

Information relevant for export to North America



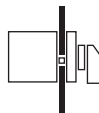
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada

Mini cam switches

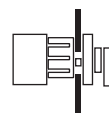
Control switches, step switches

TM

Flush mounting
Front IP65



Center mounting
Front IP65



Contact sequence

Front plate no.

Pole

Part no.
Article no.

Price
See price list

Std. pack

Part no.
Article no.

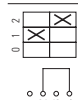
Price
See price list

Std. pack

Step switches

With 0 (Off) position

2 steps, 60°



F 075

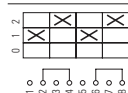
1

TM-1-8240/E
058267

1 off
 

TM-1-8240/EZ
015226

1 off
 



F 075

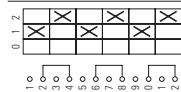
2

TM-2-8260/E
060640

1 off
 

TM-2-8260/EZ
045483

1 off
 



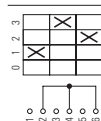
F 075

3

TM-3-8280/EZ
045496

1 off
 

3 steps, 45°



F 109

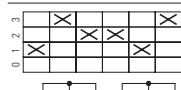
1

TM-2-8241/E
065386

1 off
 

TM-2-8241/EZ
015256

1 off
 



F 109

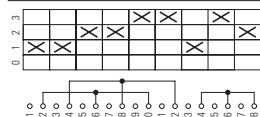
2

TM-3-8261/E
067759

1 off
 

TM-3-8261/EZ
000698

1 off
 



F 109

3

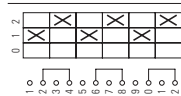
TM-5-8281/E
070132

1 off
 

TM-5-8281/EZ
046125

1 off
 

3 steps, 60°



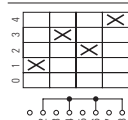
F 075

3

TM-3-8280/E
063013

1 off
 

4 steps, 30°



F 002

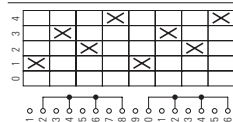
1

TM-2-8242/E
072505

1 off
 

TM-2-8242/EZ
015506

1 off
 



F 002

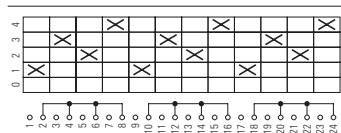
2

TM-4-8262/E
074878

1 off
 

TM-4-8262/EZ
046120

1 off
 



F 002

3

TM-6-8282/E
077251

1 off
 

Information relevant for export to North America



Product Standards

UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking

UL File No.

E36332

UL CCN

NLRV

CSA File No.

UL report applies to both US and Canada

CSA Class No.

—

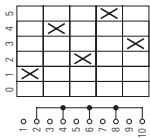
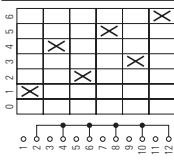
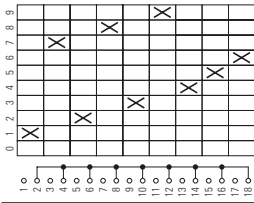
NA Certification

UL Listed, certified by UL for use in Canada

Mini cam switches

Control switches – step switches, group switches, ON/OFF switches

TM

			Flush mounting Front IP65		Center mounting Front IP65			
Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
Step switches								
With 0 (Off) position								
5 steps, 30°								
	 F 003	1	TM-3-8243/E 079624		1 off  	TM-3-8243/EZ 015537		1 off  
6 steps, 30°								
	 F 004	1	TM-3-8244/E 081997		1 off  	TM-3-8244/EZ 045495		1 off  
9 steps, 30°								
	 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/EZ 045487		1 off  
ON OFF switches								
ON switch 30°								
	 F 023	1				TM-1-8175/EZ 015690		1 off  
ON OFF 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  

Information relevant for export to North America

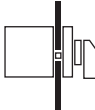
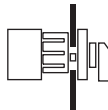
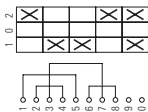
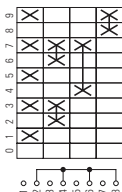
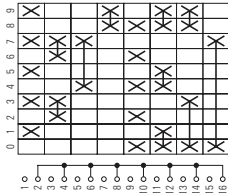


Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada

Mini cam switches

Control switches – step switches, group switches, ON/OFF switches

TM

		Flush mounting Front IP65		Center mounting Front IP65				
								
Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
Reversing switches, 60°								
	 F 071	3	TM-3-8401/E 015554		1 off 			
Coding switches								
BCD code 0-9, 30°								
	 F 007	1	TM-2-8550/E 020300		1 off 	TM-2-8550/EZ 000699		1 off 
BCD code 0-9 + complement, 30°								
	 F 007	1	TM-4-8552/E 025046		1 off 			

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada

EZ/S-...

For mounting form EZ
With two keys
When ordering with basic unit

Part no. Article no.	Price See price list	Std. pack	Notes
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Key operated lock mechanism

KABA lock 90° switch angle

Protection type IP65
With two keys
When ordering with basic unit

0°	+EZ/S-A 045458	1 off
270°	+EZ/S-B 045459	1 off
270 + 0°	+EZ/S-F 045463	1 off

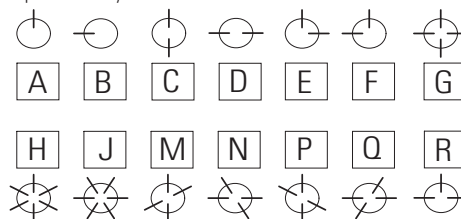
Key operation lock mechanism, incl. 2 keys.
The key can only be removed in certain positions; see diagram below. The KABA lock for 90° can be used for other switching angles as well if the key withdrawability characteristics match the type of switch.
Example: +EZ/S-B can be used with a step switch with a switching angle of 30° if the key is only to be withdrawable in the 0 position at 270°.

RONIS lock 60° switching angle

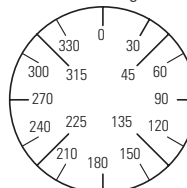
Protection type IP55
With two keys
When ordering with basic unit

270 + 90°	+EZ/S-D 045461	1 off
300 + 0 + 60 + 120 + 180 + 240°	+EZ/S-H 045465	1 off
270 + 330 + 30 + 90 + 150 + 210°	+EZ/S-J 045466	1 off
270 + 330 + 90 + 150°	+EZ/S-N 045468	1 off

Options for key withdrawal



Position marking as in example



Mini cam switches

Locks, front plates

EZ/S-...

Size	Dimensions (W x H x D) mm	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
Front plates						
Blank plate						
Can be engraved						
TM	29 x 29	(for frame 30 x 30)	FS980-TM-E 071438	10 off	 	Standard front plates for separate order For standard switches the normal front plate can be replaced if required with the front plate shown here. This is provided the switching angle, number of positions and the position of the 0 position are the same.
TM	29 x 29	(for frame 30 x 30)	FS980-TM-EZ 073811	50 off	 	
Standard front plates						
TM.../E	29 x 29	(for frame 30 x 30)	TM/E-FRONTSCILD-NR(*) 239021	1 off	 	Switching angles 30°                
TM.../EZ	29 x 29	(for frame 30 x 30)	TM/EZ-FRONTSCILD-NR(*) 239022	1 off	 	
Switching angle 45°                						
Switching angle 60°                						
Switching angle 90°                						

Information relevant for export to North America



UL/CSA certification not required

T0

	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
T0 cam switches	T0-1-SOND*/E¹⁾	907765		T0-5-SOND*/E¹⁾	907769		1 off
	T0-1-SOND*/EA/SVB²⁾	907776		T0-5-SOND*/EZ³⁾	907791		 
	T0-1-SOND*/EA/SVB-SW²⁾	908043		T0-5-SOND*/IVS⁴⁾	907810		
	T0-1-SOND*/EZ³⁾	907787		T0-5-SOND*/Z²⁾	907843		
	T0-1-SOND*/I1	207480					
	T0-1-SOND*/I1/SVB	207481		T0-6-SOND*/E¹⁾	907770		
	T0-1-SOND*/I1/SVB-SW	207482		T0-6-SOND*/EZ³⁾	907792		
	T0-1-SOND*/IVS⁴⁾	907806		T0-6-SOND*/IVS⁴⁾	907811		
	T0-1-SOND*/V/SVB²⁾	907817		T0-6-SOND*/Z²⁾	907844		
	T0-1-SOND*/V/SVB-SW²⁾	908054					
	T0-1-SOND*/Z²⁾	907839		T0-7-SOND*/E¹⁾	907771		
				T0-7-SOND*/EZ³⁾	907793		
	T0-2-SOND*/E¹⁾	907766		T0-7-SOND*/IVS⁴⁾	907812		
	T0-2-SOND*/EA/SVB²⁾	907777		T0-7-SOND*/Z²⁾	907845		
	T0-2-SOND*/EA/SVB-SW²⁾	908044					
	T0-2-SOND*/EZ³⁾	907788		T0-8-SOND*/E¹⁾	907772		
	T0-2-SOND*/I1	207483		T0-8-SOND*/EZ³⁾	907794		
	T0-2-SOND*/I1/SVB	207484		T0-8-SOND*/IVS⁴⁾	907813		
	T0-2-SOND*/I1/SVB-SW	207485		T0-8-SOND*/Z²⁾	907846		
	T0-2-SOND*/IVS⁴⁾	907807					
	T0-2-SOND*/V/SVB²⁾	907818		T0-9-SOND*/E¹⁾	907773		
	T0-2-SOND*/V/SVB-SW²⁾	908055		T0-9-SOND*/EZ³⁾	907795		
	T0-2-SOND*/Z²⁾	907840		T0-9-SOND*/IVS⁴⁾	907814		
				T0-9-SOND*/Z²⁾	907847		
	T0-3-SOND*/E¹⁾	907767					
	T0-3-SOND*/EA/SVB²⁾	907778		T0-10-SOND*/E¹⁾	907774		
	T0-3-SOND*/EA/SVB-SW²⁾	908045		T0-10-SOND*/EZ³⁾	907796		
	T0-3-SOND*/EZ³⁾	907789		T0-10-SOND*/IVS⁴⁾	907815		
	T0-3-SOND*/I1	207486		T0-10-SOND*/Z²⁾	907848		
	T0-3-SOND*/I1/SVB	207487					
	T0-3-SOND*/I1/SVB-SW	207488		T0-11-SOND*/E¹⁾	907775		
	T0-3-SOND*/IVS⁴⁾	907808		T0-11-SOND*/EZ³⁾	907797		
	T0-3-SOND*/V/SVB²⁾	907819		T0-11-SOND*/IVS⁴⁾	907816		
	T0-3-SOND*/V/SVB-SW²⁾	908056		T0-11-SOND*/Z²⁾	907849		
	T0-3-SOND*/Z²⁾	907841					
	T0-4-SOND*/E¹⁾	907768					
	T0-4-SOND*/EA/SVB²⁾	907779					
	T0-4-SOND*/EA/SVB-SW²⁾	908046					
	T0-4-SOND*/EZ³⁾	907790					
	T0-4-SOND*/I1	207489					
	T0-4-SOND*/I1/SVB	207490					
	T0-4-SOND*/I1/SVB-SW	207491					
	T0-4-SOND*/IVS⁴⁾	907809					
	T0-4-SOND*/V/SVB²⁾	907820					
	T0-4-SOND*/V/SVB-SW²⁾	908057					
	T0-4-SOND*/Z²⁾	907842					

Notes The prices apply to T cam switches with non-standard contact sequences.
Please use the "Ordering Non-Standard Contact Sequences" order form when ordering for the first time.
When placing repeat orders, specify the contact sequence number together with the country identifier (e.g. 4711D).

Information relevant for export to North America

1) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

3) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Degree of Protection IEC: IP65; UL/CSA Type: -

2) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified

4) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Degree of Protection IEC: IP30; UL/CSA Type: -

Cam switches, switch-disconnectors

Non-standard switches

T3

	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
T3 cam switches	T3-1-SOND*/E¹⁾	907850		T3-5-SOND*/E¹⁾	907854		1 off
	T3-1-SOND*/EA/SVB¹⁾	907861		T3-5-SOND*/EA/SVB¹⁾	907865		 
	T3-1-SOND*/EA/SVB-SW¹⁾	908080		T3-5-SOND*/EA/SVB-SW¹⁾	908084		
	T3-1-SOND*/EZ¹⁾	907872		T3-5-SOND*/EZ¹⁾	907876		
	T3-1-SOND*/I2²⁾	207492		T3-5-SOND*/I2²⁾	207504		
	T3-1-SOND*/I2/SVB²⁾	207493		T3-5-SOND*/I2/SVB²⁾	207506		
	T3-1-SOND*/I2/SVB-SW²⁾	207494		T3-5-SOND*/I2/SVB-SW²⁾	207507		
	T3-1-SOND*/V/SVB¹⁾	907891		T3-5-SOND*/V/SVB¹⁾	907895		
	T3-1-SOND*/V/SVB-SW¹⁾	908091		T3-5-SOND*/V/SVB-SW¹⁾	908095		
	T3-1-SOND*/Z¹⁾	907913		T3-5-SOND*/Z¹⁾	907917		
	T3-2-SOND*/E¹⁾	907851		T3-6-SOND*/E¹⁾	907855		
	T3-2-SOND*/EA/SVB¹⁾	907862		T3-6-SOND*/EA/SVB¹⁾	907866		
	T3-2-SOND*/EA/SVB-SW¹⁾	908081		T3-6-SOND*/EA/SVB-SW¹⁾	908085		
	T3-2-SOND*/EZ¹⁾	907873		T3-6-SOND*/EZ¹⁾	907877		
	T3-2-SOND*/I2²⁾	207495		T3-6-SOND*/V/SVB¹⁾	907896		
	T3-2-SOND*/I2/SVB²⁾	207496		T3-6-SOND*/V/SVB-SW¹⁾	908096		
	T3-2-SOND*/I2/SVB-SW²⁾	207497		T3-6-SOND*/Z¹⁾	907918		
	T3-2-SOND*/V/SVB¹⁾	907892					
	T3-2-SOND*/V/SVB-SW¹⁾	908092		T3-7-SOND*/E¹⁾	907856		
	T3-2-SOND*/Z¹⁾	907914		T3-7-SOND*/EZ¹⁾	907878		
				T3-7-SOND*/Z¹⁾	907919		
	T3-3-SOND*/E¹⁾	907852					
	T3-3-SOND*/EA/SVB¹⁾	907863		T3-8-SOND*/E¹⁾	907857		
	T3-3-SOND*/EA/SVB-SW¹⁾	908082		T3-8-SOND*/EZ¹⁾	907879		
	T3-3-SOND*/EZ¹⁾	907874		T3-8-SOND*/Z¹⁾	907920		
	T3-3-SOND*/I2²⁾	207498					
	T3-3-SOND*/I2/SVB²⁾	207499		T3-9-SOND*/E¹⁾	907858		
	T3-3-SOND*/I2/SVB-SW²⁾	207500		T3-9-SOND*/EZ¹⁾	907880		
	T3-3-SOND*/V/SVB¹⁾	907893		T3-9-SOND*/Z¹⁾	907921		
	T3-3-SOND*/V/SVB-SW¹⁾	908093					
	T3-3-SOND*/Z¹⁾	907915		T3-10-SOND*/E¹⁾	907859		
				T3-10-SOND*/EZ¹⁾	907881		
				T3-10-SOND*/Z¹⁾	907922		
	T3-4-SOND*/E¹⁾	907853					
	T3-4-SOND*/EA/SVB¹⁾	907864		T3-11-SOND*/E¹⁾	907860		
	T3-4-SOND*/EA/SVB-SW¹⁾	908083		T3-11-SOND*/EZ¹⁾	907882		
	T3-4-SOND*/EZ¹⁾	907875		T3-11-SOND*/Z¹⁾	907923		
	T3-4-SOND*/I2²⁾	207501					
	T3-4-SOND*/I2/SVB²⁾	207502					
	T3-4-SOND*/I2/SVB-SW²⁾	207503					
	T3-4-SOND*/V/SVB¹⁾	907894					
	T3-4-SOND*/V/SVB-SW¹⁾	908094					
	T3-4-SOND*/Z¹⁾	907916					

Notes The prices apply to T cam switches with non-standard contact sequences.
Please use the "Ordering Non-Standard Contact Sequences" order form when ordering for the first time.
When placing repeat orders, specify the contact sequence number together with the country identifier (e.g. 4711D).

Information relevant for export to North America



1)
Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified

2)
Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking
UL File No. E36332
UL CCN NLRV
CSA File No. 12528
CSA Class No. 3211-05
NA Certification UL Listed, CSA certified
Degree of Protection IEC: IP65; UL/CSA Type 3R, 12

T5B

	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
T5B cam 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

The prices apply to T cam switches with non-standard contact sequences.
Please use the "Ordering Non-Standard Contact Sequences" order form when ordering for the first time.
When placing repeat orders, specify the contact sequence number together with the country identifier (e.g. 4711D).

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV7
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified

Cam switches, switch-disconnectors

Non-standard switches

T5

	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
T5 cam 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		
				T5-9-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					

Notes The prices apply to T cam switches with non-standard contact sequences.
Please use the "Ordering Non-Standard Contact Sequences" order form when ordering for the first time.
When placing repeat orders, specify the contact sequence number together with the country identifier (e.g. 4711D).

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV7
CSA File No.	12528
CSA Class No.	3211-05
NA Certification	UL Listed, CSA certified
Suitable for	Branch Circuits

TM

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

Notes

1)

TM-...-SOND.../...:

For repeat orders for which the design number is already known. Form FO2 is **not** required for this purpose.

The design number is a six-digit number and must always be greater than 200000.

2)

TM-...-SOND-ERSTBESTELLUNG/...:

For new orders with a completed form.

Information relevant for export to North America



Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking
UL File No.	E36332
UL CCN	NLRV, NLRV7
CSA File No.	UL report applies to both US and Canada
CSA Class No.	—
NA Certification	UL Listed, certified by UL for use in Canada
Degree of Protection	IEC: IP65; UL/CSA Type: -

Cam switches, switch-disconnectors

T, TM

Ordering of non-standard contact sequences

T..... -		 /		 +
↑	↑	↑	↑	↑
Switch size	Number of contact units (2 contacts per contact unit)		Contact sequence number	Mounting form
	Max. units	Contacts max.	With country ID corresponding to the country of manufacture. Send completed form (as shown on the right) if ordering for the first time. The contact sequence number is specified by the supplying factory. Specifying the part no. is enough when placing repeat orders.	• Mounting form /E • Center mounting /EZ (for T0, T3) • Surface mounting /I...¹⁾ • Service distribution board mounting / IVS (for T0) • Rear mounting /Z • Flush mounting main switch /EA/SVB²⁾ • Surface mounting main switch /I.../SVB • Rear mounting main switch /V/SVB²⁾ • Designs for TM: /E, /EZ, or /IVS
T0	11	22		
T3	11	22		
T5B	10	20		
T5	10	20		
TM	8	16		
				Accessories Always specify completely for every order! For TM.../EZ: only +EZ/S... possible

Engineering notes for non-standard contact sequences

Contact sequence

The adjacent form makes it easier to specify 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 between

2 positions (ON-OFF-ON) not permissible for T0; T3, and TM = 30°, 45°; for T5(T5B) = 30°

Star-delta switch only with switching angle ≥ 60°

Terminal marking

TM switches have consecutive terminal markings starting with 1.

Spring-return

The switching action is limited by a stop. The switch returns under spring pressure to the last position. Where a switch has spring-return from both directions, a maximum of max. 3 positions can be traversed.

The spring-return angle is < ½ switching angle.

A max. of 6 contacts can be returned at the same time.

The switching angle of spring-return TM mini rotary switch must be ≥ 60°.

Fleeting contacts

The duration of the fleeting contact depends primarily on the actuation speed. In order to actuate a contactor with a fleeting pulse, the switching angle of the cam switch must not be less than 60°, since the pulse time can be too short if the switching angle is smaller. Fleeting contact elements always operate in **both** operating directions.

Complete rotation

Only possible with a total switching angle of 360°.

The direction of switching can be in either operating direction. The number of switch positions multiplied by the switching angle must be 360°. TM with 12 positions (one every 30°) only available with complete rotation, not with stop.

Front plates

Front plates are part of the equipment supplied with a "first order of rotary switch" and therefore do **not** need to be ordered separately.

Number of contact units

Number of contacts = Round up to nearest whole number

The contact chamber = contact unit (BE) has 1 or 2 contacts, each of which is actuated by a cam. In T5(B), there is a common cam for both contacts. Because of this, the following applies for T5(B): If the total switching angle is **less than 180°**, the contacts can be switched **independently** of each other. With switching angles greater than or equal to 180°, there can only be 2 contacts in the same chamber if their switching sequences are the same but are offset by 180° (e.g. T5B-4-8235 step switch).

Standard features

Same as cam switch with standard contact sequence.

Notes

It is possible that the order of the contacts is altered due to technical reasons.

For special switches bridges are only possible between a even or uneven number. Other connections must be made by the user at installation.

¹⁾ For T0-.../I1: max. 4 contact units

For T3-.../I2: max. 5 contact units

²⁾ For T0: up to a max. of 8 contacts = 4 BE,
For T3: up to a max. of 12 contacts = 6 BE

T, TM

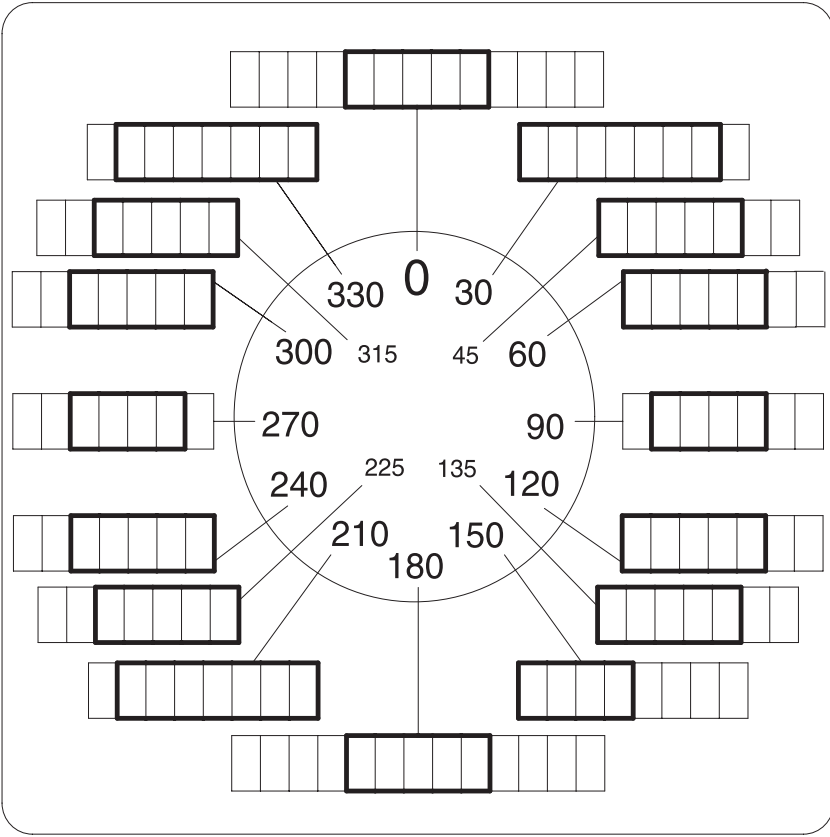
Non-standard contact sequence ordering example																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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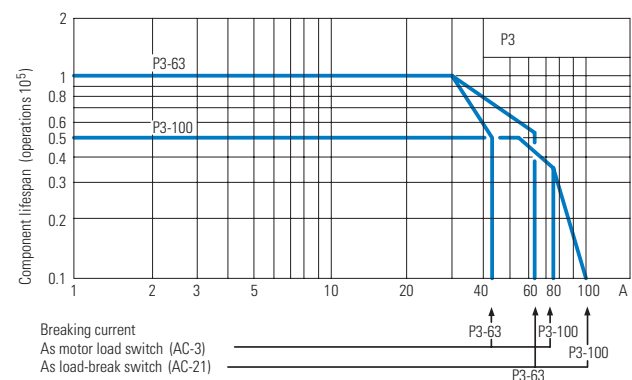
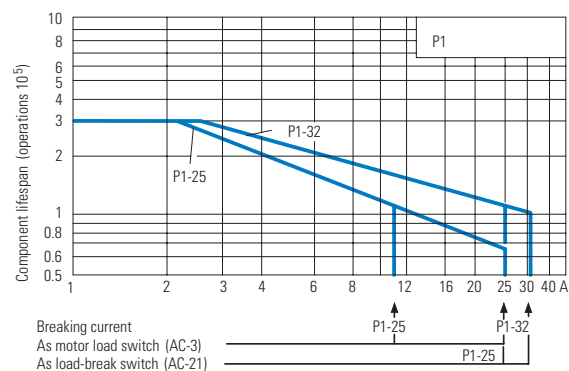
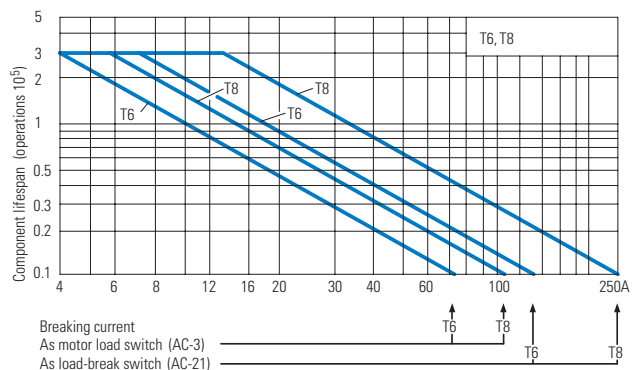
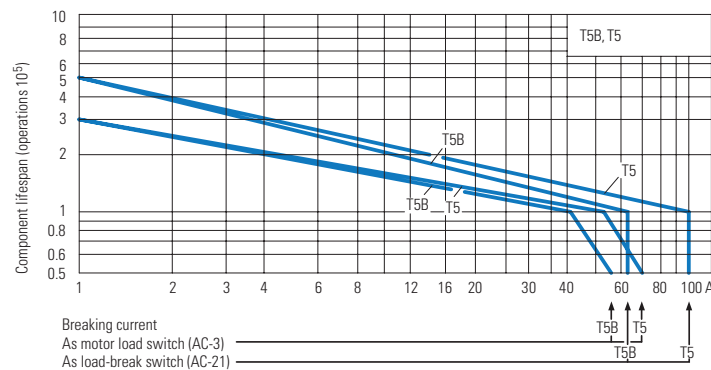
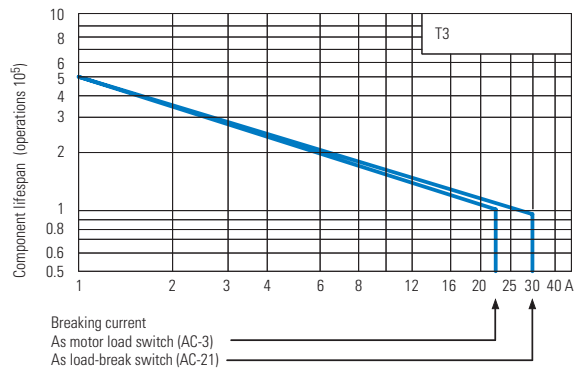
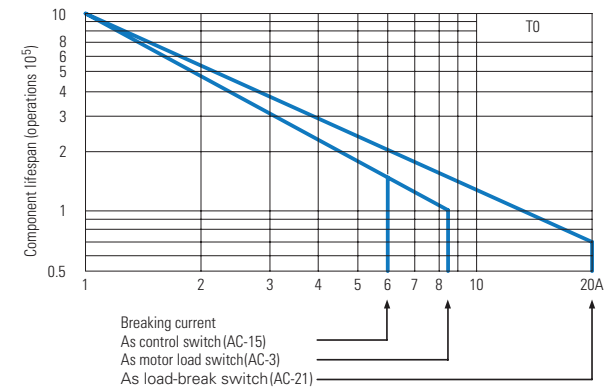
Ordering non-standard front plates			
		Binding document for ordering non-standard front plates for the first time	
Order No.:		Item:	
Office:		Name:	
Customer:		Customer no.:	
Quantity:	Euros/unit:	Date:	
The text is always centered in the text block			
Non-standard front plates			
Inscription: Front plate with black lettering			
Insert text Note the maximum number of characters allowed outside the marked areas!			
Part no.			
☐	FS-SOND-T0 (T3, P1)	Letter height ≤ 2 Characters ≥ 2 Characters	4 mm 3 mm
☐	FS-SOND-P3 (T5B, T5)	Letter height ≤ 2 Characters ≥ 2 Characters	8 mm 5 mm
☐	FS-SOND-TM-E	≤ 2 Characters approx. ≥ 2 Characters	3.5 mm 3 mm
☐	FS-SOND-TM-EZ		
			
For P1 and P3, fill out positions 270° and 0° only			
Max. possible number of characters			
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			
Part no.	Front plate size		
TM-.../E	29 x 29 mm (for frame 30 x 30)		
TM-.../EZ(-...)	29 x 29 mm (for frame 30 x 30)		
T0, T3, P1	45 x 45 mm (for frame 48 x 48)		
P3, T5, T5B	84 x 84 mm (for frame 88 x 88)		
Part no. for repeat orders (to be filled in by factory)			
FS			

Cam switches, switch-disconnectors

Characteristic curves

Component lifespan based on breaking current and utilization category¹⁾

To ensure a reasonable service life in utilization category AC-4 (extreme load: 100 % inching, reversing, or plug braking), the motor's standstill current must not exceed the rated operational current of the switch for AC-21A.



Notes

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

Technical data

P1, P3

			Unit	P1-25	P1-32	P3-63	P3-100
General							
Standards				IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL switch-disconnector to IEC/EN 60947-3			
Lifespan, mechanical	Operations	x 10 ⁶		0.3	0.3	0.1	0.1
Maximum operating frequency	Operations/h			50	50	50	50
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30			
Ambient temperature	Open	°C		-25 - 50	-25 - 50	-25 - 50	-25 - 50
	Enclosed	°C		-25 - 40	-25 - 40	-25 - 40	-25 - 40
Mounting position				Any	Any	Any	Any
Mechanical shock resistance (IEC/EN60068-2-27)	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 rating with intermittent operation, class 12	AB 60 % DF	x I _e		1.3	1.3	1.3	1.3
	AB 40 % DF	x I _e		1.6	1.6	1.6	1.6
	AB 25 % DF	x I _e		2	2	2	2
Short-circuit rating	Fuse	A gG/gL		25	50	80	100
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}		640	640	1260	2000
Isolating characteristics to IEC/EN 60947				V AC	≤ 690	≤ 690	≤ 690
Safe isolation according to EN 61140							
Safe isolation to VDE 0106 Part 101 and Part 101 A1 between the auxiliary contacts and main circuits				V AC	440	440	440
Switching angle		°		90	90	90	90
Contacts				Number	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 x (1.5 - 6) 2 x (1.5 - 6)	1 x (1.5 - 6) 2 x (1.5 - 6)	1 x (2.5 - 35) 2 x (2.5 - 10)	1 x (2.5 - 35) 2 x (2.5 - 10)
	Flexible with ferrule to DIN 46228	mm ²		1 x (1 - 4) 2 x (1 - 4)	1 x (1 - 4) 2 x (1 - 4)	1 x (1.5 - 25) 2 x (1.5 - 6)	1 x (1.5 - 25) 2 x (1.5 - 6)
Terminal screw				M4	M4	M5	M5
Tightening torque				Nm	1.6	1.6	3
Switching capacity							
AC voltage							
Rated making capacity cos φ = 0.35				A	240	320	800
Rated breaking capacity, motor load switch 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 440 V, load-break switch AC-21A		I _e	A	25	32	63	100
AC-3 motor load switch motor rating	230 V	P	kW	5.5	7.5	15	22
	400/415 V	P	kW	7.5	13	30	37
	500 V	P	kW	7.5	18.5	30	45
	690 V	P	kW	7.5	15	30	37
AC-23A motor load switch motor rating	230 V	P	kW	7	8.5	18.5	30
	400/415 V	P	kW	13	15	30	50
	500 V	P	kW	11	18.5	37	65
	690 V	P	kW	11	18.5	30	45
DC voltage							
DC-1, load switch L/R = 1 ms	Rated operational current	I _e	A	25	32	63	100
		Voltage per contact connected in series	V	60	60	60	60
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current	I _e	25	25	50	50
		Contacts	Number	1	1	1	1
	48 V	Rated operational current	I _e	25	25	50	50
		Contacts	Number	2	2	2	2
	60 V	Rated operational current	I _e	25	25	50	50
		Contacts	Number	3	3	3	3
	120 V	Rated operational current	I _e	12	12	25	25
		Contacts	Number	3	3	3	3

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

Cam switches, switch-disconnectors

Switch-disconnectors

P1, P3

Rating data for approved types¹⁾

UL File No. E36332		Unit	P1-25	P1-32	P3-63	P3-100
Contacts						
Rated operational voltage U _e		V AC	600	600	600	600
Rated uninterrupted current I _u						
Current rating		A	20	30	60	100
Pilot Duty			A 600P 600	A 600P 600	–	–
Switching capacity						
AC-3; max. rated power 40 – 60 Hz AC motors						
3-phase	200 V AC	HP	5	7½	15	20
	230 V AC	HP	5	10	15	25
	460 V AC	HP	10	20	40	60
	575 V AC	HP	15	25	50	75
Single-phase	120 V AC	HP	1½	2	3	5
	200 V AC	HP	3	3	7½	10
	230 V ACHP	HP	3	5	10	15
Short-circuit rating						
Standard	600 V AC	kA	5	5	10	10
With back-up fuse		A	110	110	150	150
With circuit-breakers		Part no.	NZMH6	NZMH6	NZMH6	NZMH9
Current setting		A	125	125	125	125
Disconnect in motor circuits	600 V AC	kA	10	10	10	–
With back-up fuse		Class	50 A/J	50 A/J	100 A	100 A
Terminal capacity						
Terminal capacity						
Cu cable	Min./	AWG	14	14	14	14
	Max.	AWG	8	8	2	2
Tightening torque	Max.	in-lb	14.1	14.1	26.5	26.5

HI 11

Auxiliary contacts (1 N/O + 1 N/C)

Pilot Duty	P 600
Heavy Pilot Duty	A 600
General Use	10 A – 600 V AC

Notes ¹⁾ Devices for world markets IEC & UL/CSA

P1, P3

UL File No:

E36332	UL approved protection types		
	UL/NEMA 3R ¹⁾	UL/NEMA 12	UL/NEMA 13
Switch-disconnectors			
P1-.../EA/SVB	•	•	–
P1-.../V/SVB	•	•	–
P3-.../EA/SVB	•	•	•
P3-.../V/SVB	•	•	•

Notes Details of protection types
¹⁾ NEMA recommendation

P1, P3

Part no.:	P1	P3-63	P3-100
Mounting form			
/E; /EA; /EZ /Z; /V; /IVS			
/I2	+NA-I2 105866		
/I4		+NA-I4 105868	
/I5			+NA-I5 105869

P5

			Unit	P5-125	P5-160	P5-250	P5-315
General							
Standards				IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3			
Lifespan, mechanical	Operations	x 10 ⁶		0.1	0.1	0.08	0.08
Maximum operating frequency	Operations/h			50	50	50	50
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30			
Ambient temperature	Open		°C	-25 - 50	-25 - 50	-25 - 50	-25 - 50
	Enclosed		°C	-25 - 40	-25 - 40	-25 - 40	-25 - 40
Mounting position				Any	Any	Any	Any
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 rating with intermittent operation, class 12	AB 60 % DF		x I _e	1.3	1.3	1.3	1.3
	AB 40 % DF		x I _e	1.6	1.6	1.6	1.6
	AB 25 % DF		x I _e	2	2	2	2
Short-circuit rating	Fuse		A gG/gL	125	160	250	315
Rated short-time withstand current (1 s current)		I _{cw}	A _{rms}	2500	3000	4600	5800
Isolating characteristics to IEC/EN 60947			V AC	≤ 690	≤ 690	≤ 690	≤ 690
Safe isolation according to EN 61140							
Safe isolation to VDE 0106 Part 101 and Part 101 A1 between the auxiliary contacts and main circuits			V AC	440	440	440	440
Switching angle			°	90	90	90	90
Contacts			Number	Max. 3 (+N)	Max. 3 (+N)	Max. 3 (+N)	Max. 3 (+N)
Current heat loss per contact at I _e			W	8	10	13	16
Terminal capacity							
Solid or stranded			mm ²	1 x (10 - 95) 2 x (10 - 35)	1 x (10 - 95) 2 x (10 - 35)	1 x (16 - 185) 2 x (16 - 70)	1 x (16 - 185) 2 x (16 - 70)
Copper strip, 1 flat conductor		Number of layers x width x thickness	mm	6 x 9 x 0.8	—	6 x 20 x 1	—
Copper strip, 2 flat conductors			mm	—	6 x 9 x 0.8	—	6 x 20 x 1
Flexible with ferrule to DIN 46228			mm ²	1 x (16 - 70) 2 x (16 - 25)	1 x (16 - 70) 2 x (16 - 25)	1 x (25 - 120) 2 x (25 - 50)	1 x (25 - 120) 2 x (25 - 50)
Terminal screw				Hexagon screw 5	Hexagon screw 5	Hexagon screw 6	Hexagon 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							
Rated uninterrupted current I _u is specified for max. cross-section.							
For terminal capacity solid, stranded, and flexible:							
Max. 2 cross-section sizes difference admissible when using 2 conductors.							

Cam switches, switch-disconnectors

Switch-disconnectors, auxiliary contacts

P5

			Unit	P5-125	P5-160	P5-250	P5-315		
Switching capacity									
AC voltage									
Rated making capacity $\cos \varphi = 0.35$			A	850	1050	1700	2050		
Rated breaking capacity, motor load switch $\cos \varphi = 0.35$	230 V		A	800	900	1600	1800		
	400 V		A	750	850	1380	1650		
	500 V		A	650	850	1250	1550		
	690 V		A	340	340	400	400		
Rated operational current 440 V, load-break switch AC-21A		I _e	A	125	160	250	315		
Motor rating motor load switch AC-3	230 V	P	kW	22	30	37	45		
	400 V	P	kW	37	45	55	75		
	690 V	P	kW	30	37	45	45		
Motor rating motor load switch AC-23 A	230 V	P	kW	30	30	37	55		
	400 V	P	kW	45	55	90	110		
	690 V	P	kW	37	37	45	45		
DC voltage									
DC-1, load switch L/R = 1 ms DC-1, load switch L/R = 1 ms	Rated operational current		I _e	A	125	160	250	315	
	Voltage per contact connected in series			V	42	42	42	42	
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current		I _e	A	125	160	250	315
		Contacts		Number	3	3	3	3	
	48 V	Rated operational current		I _e	A	125	160	250	315
		Contacts		Number	3	3	3	3	
	60 V	Rated operational current		I _e	A	125	160	250	315
		Contacts		Number	3	3	3	3	
	120 V	Rated operational current		I _e	A	40	50	80	100
		Contacts		Number	3	3	3	3	
Notes	Main switch characteristics to IEC/EN 60204; positive opening of contacts, operator element positively located on shaft Rated uninterrupted current I _u is specified for max. cross-section. For terminal capacity solid, stranded, and flexible: Max. 2 cross-section sizes difference admissible when using 2 conductores.								

P5

			Unit	HI...-P1(P3)...	HI...-P5...
Auxiliary contacts					
Standards				Control circuit isolator 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 at 230 V	I_e	A		6	6
400 V/415 V	I_e	A		—	3
DC-13					
125 V	I_e	A		1.1	0.23
250 V	I_e	A		0.55	0.1
Short-circuit rating					
Max. fuse		A gG/gL		10	10
Terminal capacity					
Solid		mm ²		1 × 0.75 - 2.5	1 × 0.75 - 2.5
				2 × 0.75 - 1.5	2 × 0.75 - 1.5
Flexible with ferrule to DIN 46228		mm ²		1 × 0.5 - 1.5	1 × 0.5 - 1.5
				2 × 0.5 - 1.5	2 × 0.5 - 1.5
Tightening torque			Nm	0.6	0.8
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H_F		< 10 ⁻⁵ , < 1 failure for 100 000 switching operations	

P5

Rating data for approved types

UL File No. E36332

UL File No. E36332		Unit	P5-125	P5-160	P5-250	P5-315
Contacts						
Rated operational voltage		U _e	V	600	600	600
Rated impulse withstand voltage ¹⁾		U _{imp}	V AC	8000	8000	8000
Rated uninterrupted current ²⁾		I _u	A	125	160	300
Rated operational current						
Ampere rating	Off switch	I _e	A	125 ²⁾	160 ²⁾	250 ²⁾
	Changeover switches	I _e	A	125 ²⁾	160 ²⁾	–
Non inductive and slightly inductive loads						
Rated switching duty						
DOL rating (similar to AC-3)						
3-phase, 3 pole						
	120 V	HP	15	20	30	40
	240 V	HP	30	40	60	75
	480 V	HP	60	60	75	100
	600 V	HP	60	60	75	100
Short-circuit rating						
Max. back-up fuse, gL characteristic			A	125	160	250
Rated short-time withstand current (1 s current)			A	2500	3000	4600
Terminal capacity						
Cu cable						
Solid or stranded for box terminal		AWG	3/0	3/0	–	–
		MCM	–	–	350	350
Flexible without ferrule		AWG	2/0	2/0	–	–
		MCM	–	–	300	300
Connection with cable lug or busbar			M10 x	M10 x	M12 x	M12 x
Terminal screw			mm	20	20	20
Max. width			mm	20	20	25
Max. width with terminal cover			mm	25	25	34
Ambient temperature	Open on 100 % I _u /I _{th}	50 °C over 24 hours with peaks up to 55 °C				
	Enclosed on 100% I _{the}	35 °C over 24 hours with peaks up to 40 °C				
Notes						
¹⁾ Valid for mains with grounded star point, overvoltage category III, pollution degree 3						
²⁾ Valid for connection with cables for 75°C						

P5

		Unit	HI11	HI21-P5-125(160)	HI21-P5-250(315)
Auxiliary contacts					
Standards					
Rated insulation voltage	U_i	V AC		600	600
Rated uninterrupted current	I_u	A		10	10
Rated operational current	I_e				
Pilot Duty			P600	P600	P600
Heavy Pilot Duty			A600	A600	A600
General Use			10 A – 600 V AC	—	—
Ampere rating					
Non inductive and slightly inductive loads			—	10	10
Short-circuit rating					
Max. fuse	gL characteristic	A	—	16	16
Terminal capacity					
Solid or stranded		AWG	—	12	12
Flexible without ferrule		AWG	—	14	14
Notes					
¹⁾ Devices for world markets IEC Δ UL/CSA					

Cam switches, switch-disconnectors

Cam switches

T

		Unit	T0-...	T3-...
General				
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnectors to IEC/EN 60947-3 Load-break switch according to IEC/EN 60947-3	
Lifespan, mechanical	Operations	x 10 ⁶	0.5	0.5
Maximum operating frequency	Operations/h		3000	3000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic to IEC 60068-2-30	
Ambient temperature				
Open		°C	-25 - 50	-25 - 50
Enclosed		°C	-25 - 40	-25 - 40
Mounting position			Any	Any
Mechanical shock resistance to IEC 60068-2-27	Half-sinusoidal shock 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 rating with intermittent operation, class 12				
AB 25 % DF		x I _e	2	2
AB 40 % DF		x I _e	1.6	1.6
AB 60 % DF		x I _e	1.3	1.3
Short-circuit rating				
Fuse		A gG/gL	20	35
Rated short-time withstand current (1 s current)	I _{cw}	A _{rms}	320	650
Safe isolation according to EN 61140				
Between the contacts		V AC	440	440
Switching angle			°	
			90	90
			60	60
			45	45
			30	30
Contact units			Max. 11	Max. 11
Contacts with double-break			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 x (1 - 2.5) 2 x (1 - 2.5)	1 x (1 - 6) 2 x (1 - 6)
Flexible with ferrule to DIN 46228		mm ²	1 x (0.75 - 1.5) 2 x (0.75 - 1.5)	1 x (0.75 - 4) 2 x (0.75 - 4)
Flat terminal for rails		mm ²		
Terminal screw			M3.5	M4
Tightening torque		Nm	1	2

Notes

The following applies 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 VAC

The following applies to rated uninterrupted current I_u of contacts: max. 95 A with T5-4-8344/I5

The following applies for solid, stranded and flexible terminal capacities:

T0(3), (6), (8)...: if 2 conductors are used, a max. difference of 2 cross-section sizes is permissible

T5(B)-...: if 2 conductors are used, a max. difference of one cross-section sizes is permissible

The following applies for part no. T8-3-8342/...: switching angle = 90° and flat conductor connection = 1 flat conductor, 25 x 5, or 2 flat conductors, 20 x 3

T5B-...	T5-...	T6-3-8212/E/HI12	T6-160-...	T8-...
IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnectors to IEC/EN 60947-3 Load-break switch according to IEC/EN 60947-3				
0.5	0.5	0.1	0.1	0.1
3000	3000	50	50	50
Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclic, 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
Any	Any	Any	Any	Any
> 15	> 15			
690	690	690	690	690
6000	6000	6000	8000	8000
III/3	III/3	III/3	III/3	III/3
63	100	125	160	315
63	100	125	160	275
2	2	2	2	2
1.6	1.6	1.6	1.6	1.6
1.3	1.3	1.3	1.3	1.3
80	100	200	160	315
1300	1850	2000	3000	4200
440	440			
90	90	90	90	90
60	60	60	60	60
45	45			
30	30			
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 x (2.5 - 35)	1 x (2.5 - 35)	1 x 70	1 x 95	150
2 x (2.5 - 16)	2 x (2.5 - 16)	2 x 25	2 x 25	
1 x (1.5 - 25)	1 x (1.5 - 25)	1 x 50	1 x 50	120
2 x (1.5 - 10)	2 x (1.5 - 10)	2 x 16	2 x 16	
				1 x (25 x 5) 2 x (20 x 3)
M6	M6	M6	M5, hexagon screw	M12
4	4	5.6	14	25

Cam switches, switch-disconnectors

Cam switches

T

				Unit	T0-...	T3-...
Switching capacity						
AC voltage						
Rated making capacity cos φ = 0.35				A	130	320
Rated breaking capacity, Motor load switch cos φ = 0.35	230 V			A	100	260
	400 V			A	110	260
	500 V			A	80	240
	690 V			A	60	170
Rated operational current load break switch AC-21A	440 V	I _e		A	20	32
Motor rating Motor load switch 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 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 switch 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	6.5	15
Rated operational current Control switch AC-15	230 V	I _e		A	6	10
	400/415 V	I _e		A	4	6
	500 V	I _e		A	2	4
DC voltage						
DC-1, load switch L/R = 1 ms	Rated operational current	I _e		A	10	25
	Voltage per contact connected in series			V	60	60
DC-21A	Rated operational current 240 V	I _e		A	1	1
	240 V contacts			Number	1	1
DC-23A, motor load switch L/R = 15 ms	24 V	Rated operational current	I _e	A	10	25
		Contacts		Number	1	1
	48 V	Rated operational current	I _e	A	10	25
		Contacts		Number	2	2
	60 V	Rated operational current	I _e	A	10	25
		Contacts		Number	3	3
	120 V	Rated operational current	I _e	A	5	12
		Contacts		Number	3	3
	240 V	Rated operational current	I _e	A	5	5
		Contacts		Number	5	5
DC-13, control switch L/R = 50 ms	Rated operational current	I _e		A	10	20
	Voltage per contact connected in series			V	32	32
Control circuit reliability at 24 V DC, 10 mA		Fault probability	H _F	< 10 ⁻⁵ , < 1 failure for 100000 switching 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 V/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	—	—	

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	75	132
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 failure for 100000 switching operations				
		Control circuit isolator to IEC/EN 60947-5 f	Control circuit isolator to IEC/EN 60947-5 f	
—	—	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 failure for 100 000 switching operations		

Cam switches, switch-disconnectors

Miscellaneous switches with "disconnect function"

T

Rating data for approved types¹⁾

UL File No. E36332		Unit	T0-...	T3-...	T5B-...
Contacts					
Rated operational voltage U _e		V AC	600	600	600
Rated uninterrupted current I _u					
Current rating		A	16	25	65
Pilot Duty			A 600 P 600	A 600	
Switching capacity					
AC-3; max. rated power 40 – 60 Hz AC motors					
3-phase	200 V AC	HP	3	5	15
	230 V AC	HP	3	7½	15
	460 V AC	HP	10	15	40
	575 V AC	HP	10	15	50
Single-phase	115 V AC	HP	1	1½	3
	200 V AC	HP	2	3	7½
	230 V AC	HP	2	3	10
Short-circuit rating					
Standard	600 V AC	kA	5	5	5
With back-up fuse		A	50	80	CLASS J
With circuit-breakers		Part no.	NZMH6	NZMH6	–
Current setting		A	50	125	–
Disconnect in motor circuits	600 V AC	kA	10	10	–
With back-up fuse		Class	20 A/J	40 A/J	–
Terminal capacity					
Terminal capacity					
Cu cable	Min.	AWG	18	14	12
	Max.	AWG	14	10	4
Tightening torque	Max.	in-lb	8.8	17.6	35.3

Notes

1) Devices for world markets IEC Δ UL/CSA.
 Accessories → Cam switches for the German market.
 If required, order English language front plate from the German market product range.
 Do not use AW extension terminals where UL/CSA approval is required.

T

UL approved protection types			
	UL/NEMA 1	UL/NEMA 3R	UL/NEMA 12
Cam switches			
T0-.../E; /Z; /SVB	•	•	•
T3-.../E; /Z; /SVB	•	•	•
T5B-.../E; /Z; /SVB	•	•	•
Notes	Protection type explanations → Chapter 23, Enclosure protection types as defined in NEC (NFPA 70), UL, CSA, NEMA		

T cam switches in NA version

In its NA version, the cam switch features a terminal inscription in English and/or a terminal inscription deviating from the IEC standard. Switches in mounting types I2 to I4 feature an additional inscription on the enclosure's front (e.g. part no. and protection type). Not possible in combination with key operation lock mechanism S-T0; SVA-T3, and SVC-T3.

An overview of these cam switches can be found in the instructional leaflet AWA 1150-2327.

Catalog No.:	T0	T3	T5B
Mounting type			
/E; /EA; /EZ /Z; /V; /IVS	+NA 105864	+NA 105864	
/I2		+NA-I2 105866	
/I4			
/I5			+NA-I5 105869

TM

		Unit	TM
General			
Standards			IEC/EN 60947, VDE 0660 UL, CSA Control switch to IEC/EN 60947-5-1 Control circuit isolators to IEC/EN 60947-5-1
Control circuit isolator (IEC/EN 60947-5-1)			Max. 6 contacts; switching angle: 90°
Lifespan, mechanical	Operations	x 10 ⁶	> 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			Any
Terminal capacity			
Solid		mm ²	1 x 1.5
			2 x 1.5
Flexible without ferrule		mm ²	1 x 1.5
			2 x 1.5
Solid or stranded		AWG	1 x 14
			2 x 14
Flexible		AWG	1 x 16
			2 x 16
Terminal screw			M2.5
Tightening torque		Nm	0.35
Contacts			
Mechanical data			
Contacts		Number	Max. 16
Contact units (BE)			Max. 8
Switching angle		°	90
			60
			45
			30
Smallest switching angle for ON-OFF-ON		°	60
Max. switch position			≤ 12
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 to UL/CSA		V AC	300
Rated uninterrupted current	I _u	A	10
Switching capacity			
AC-23 motor load switch	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 switch	230 V AC, 1 pole	A	2.5
	400 V AC, 1 pole	A	1.5
	440 V AC, 1 pole	A	1
DC-13, control switch L/R = 50 ms	Rated operational current	I _e	A
	Voltage per contact connected in series	V	32
Switching capacity (UL489, CSA 22.2 No. 5.1)	240 V AC, 3 pole	HP	1
	277 V AC, 1 pole	HP	¾
	300 V AC Heavy duty	A	10
Max. short-circuit protective device			
Fuse		A gG/gL	10
Control circuit reliability at 24 V DC, 10 mA	Fault probability	H _F	< 10 ⁻⁵ , < 1 failure for 100000 switching cycles

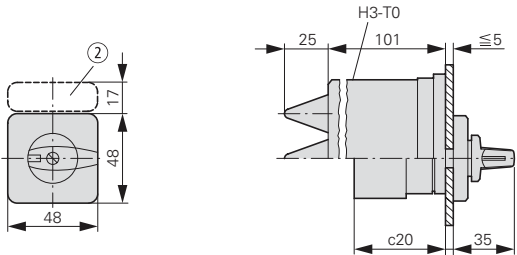
Cam switches, switch-disconnectors

Cam switches

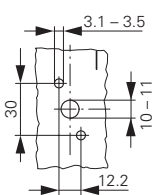
Dimensions

Flush mounting

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

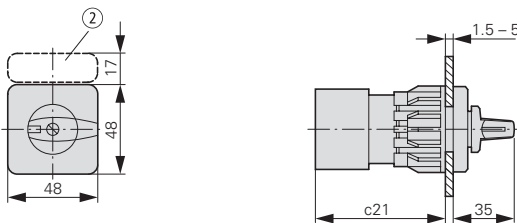


Drilling dimensions

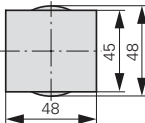


Center mounting

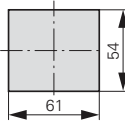
T0.../EZ
T3.../EZ



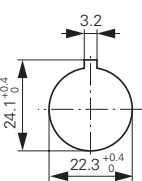
T0



T3



Drilling dimensions



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

Depth of one contact unit: 9.5 mm

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

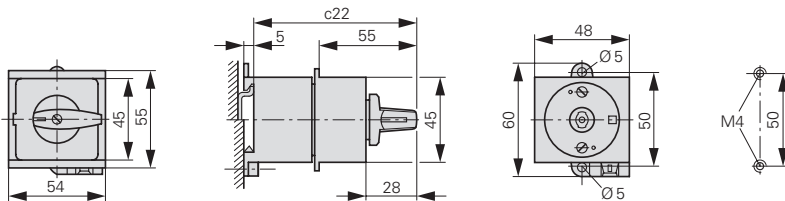
Depth of one contact unit: 11.5 mm

② Not included as standard

Service distribution board mounting

T0.../IVS

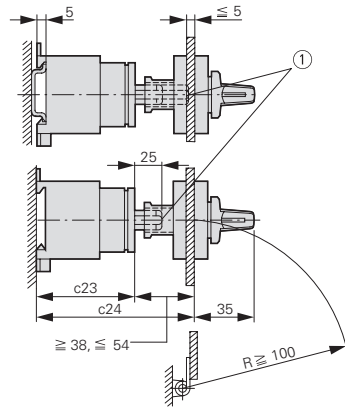
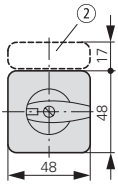
Drilling dimensions
base



Rear mounting

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

① Extension with



ZAV-T0 possible,
≅ 4 x 25 = 100 mm

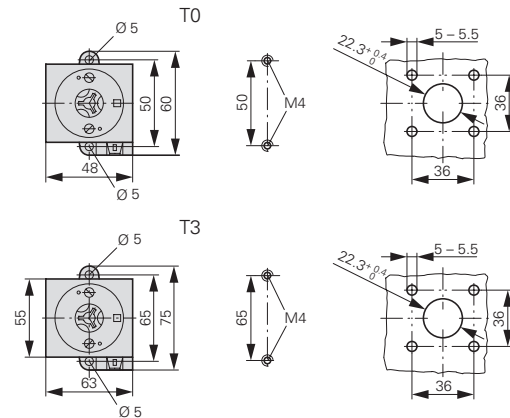
Part no.	c20	c21	c22	c23	c24 ≅ / ≅	c24 with ≅ 4 ZAV	c25
T0-1...	41	61	77	48	86 – 102	202	72
T0-2...	50	70	87	57	96 – 112	212	72
T0-3...	60	80	96	67	105 – 121	221	91
T0-4...	69	89	106	76	115 – 131	231	91
T0-5...	79	99	115	86	124 – 140	240	–
T0-6...	88	108	125	95	134 – 150	250	–
T0-7...	98	118	134	105	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

② Not included as standard

Drilling
dimensions
base

Drilling
dimensions
door

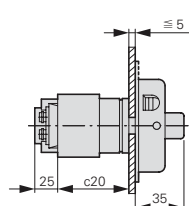
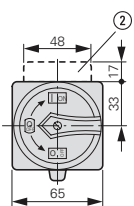


Part no.	c20	c21	c22	c23	c24 ≅ / ≅	c24 with ≅ 4 ZAV	c25
T3-1...	44	64	80	51	86 – 105	205	79
T3-2...	56	76	92	63	101 – 115	216	79
T3-3...	67	87	103	74	112 – 128	228	101
T3-4...	79	99	115	86	124 – 139	239	101
T3-5...	90	110	126	97	135 – 151	251	–
T3-6...	102	122	138	109	147 – 162	262	–
T3-7...	113	133	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

Flush mounting main switch

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

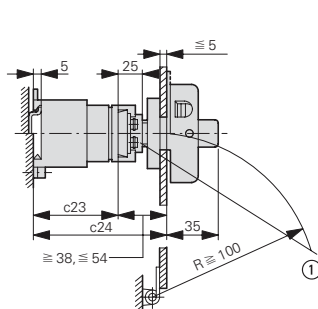
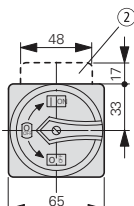


Drilling
dimensions
door



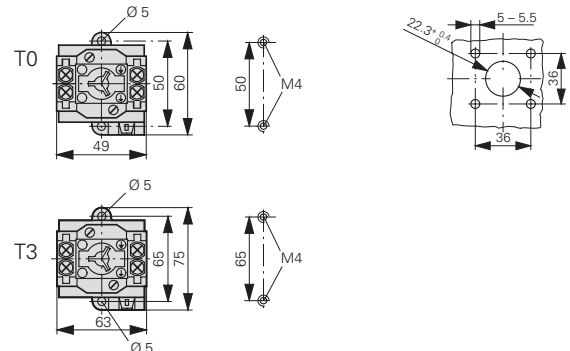
Rear mounting main switches

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



Drilling
dimensions
base

Drilling
dimensions
door



① Interlock extension possible with ZVV-T0 + ZAV-T0, F 4 x 25 = 100 mm

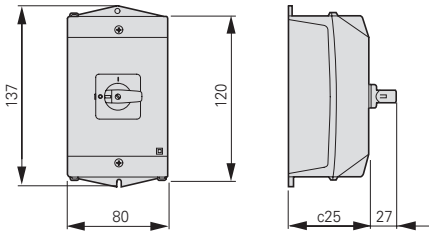
② Not included as standard

Cam switches, switch-disconnectors

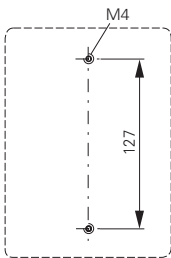
Cam switches

Surface mounting

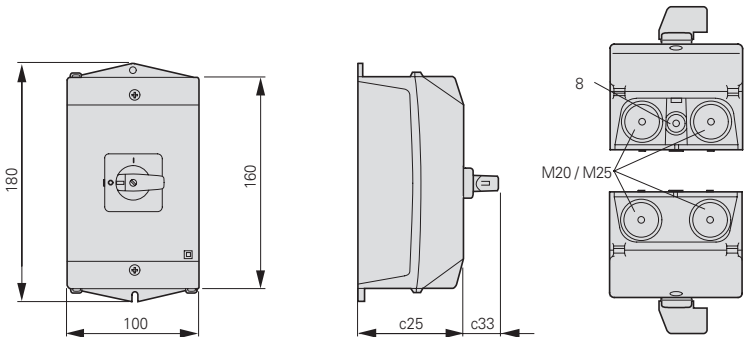
T0.../I1



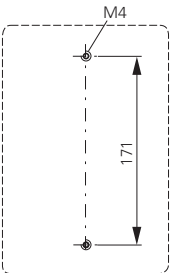
Drilling dimensions
base



T3.../I2

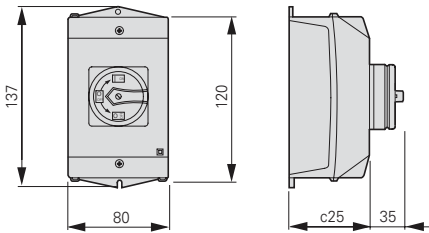


Drilling dimensions
base

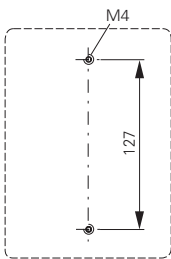


Surface mounting main switches

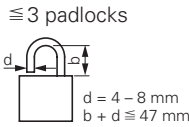
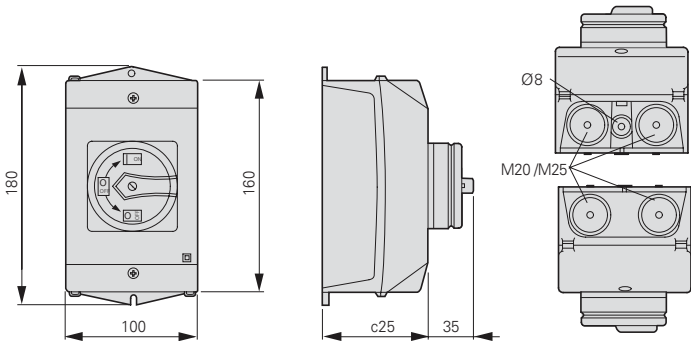
T0.../I1/padlock facility



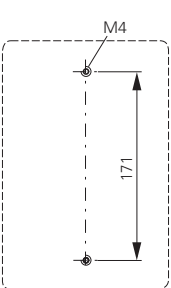
Drilling dimensions
base



T3.../I2/SVB



Drilling dimensions
base



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

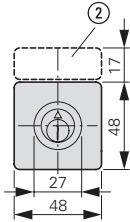
Part no.	c25	c33
T3-1...	80	27
T3-2...	80	27
T3-3...	100	35
T3-4...	100	35
T3-5...	145	35

Cam switches, switch-disconnectors

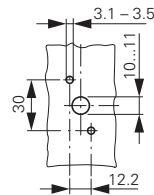
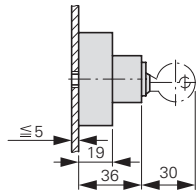
Cam switches, switch-disconnectors, accessories

Key operated lock mechanism

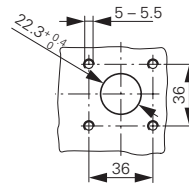
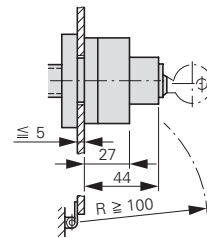
S-T0
S-SOND...-T0



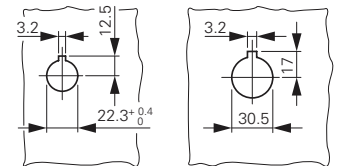
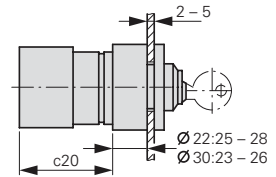
T0.../E(I1) + S-(SOND-)T0
T3.../E(I2) + S-(SOND-)T0



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

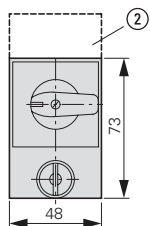


T0.../EZ = T0.../E + EZ-T0 + S-(SOND-)T0
T3.../EZ = T3.../E + EZ-T0 + S-(SOND-)T0

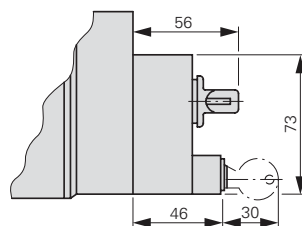


Cylinder lock

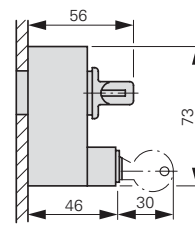
SVA-T3



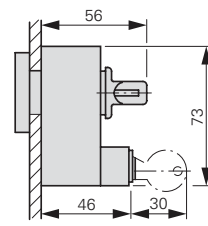
T0.../I1/SVA
T3.../I2/SVA
P1.../I2/SVA



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

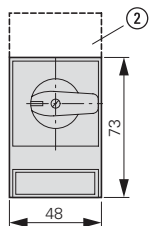


T0.../Z/SVA...
T3.../Z/SVA...
P1.../Z/SVA

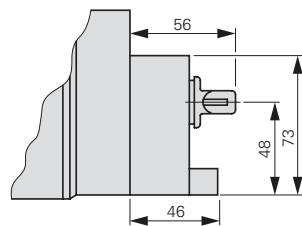


Padlocking feature

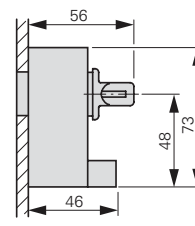
SVC-T3



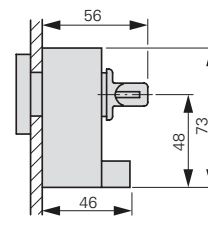
T0.../I1/SVC
T3.../I2/SVC
P1.../I2/SVC



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

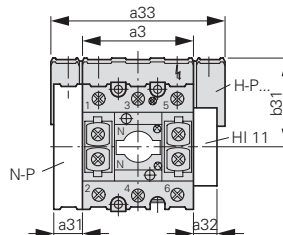
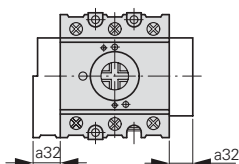
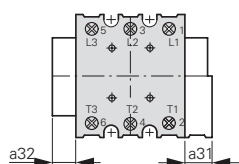


T0.../Z/SVC...
T3.../Z/SVC...
P1.../Z/SVC

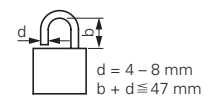


Modules

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



≅ 3 padlocks



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

② Not included as standard

Cam switches, switch-disconnectors

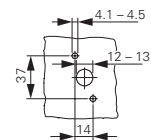
Cam switches

Flush mounting

T5(B).../E

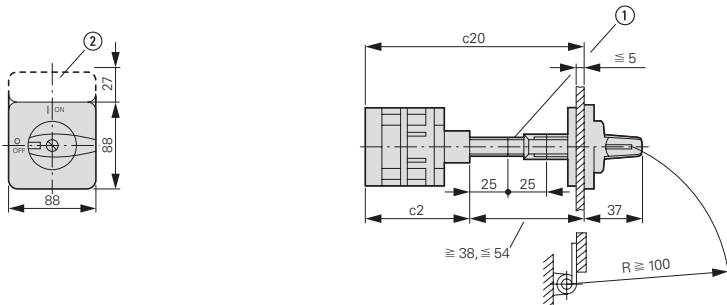


Drilling dimensions door

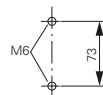


Rear mounting

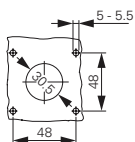
T5(B).../Z



Drilling dimensions base



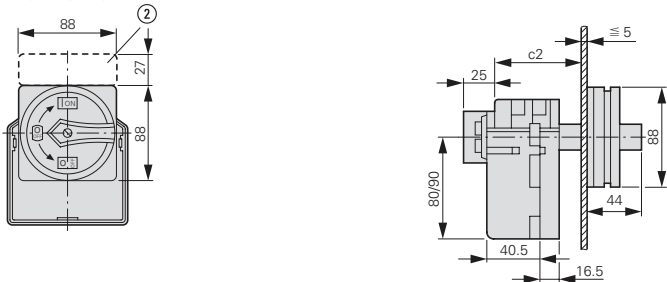
Drilling dimensions door



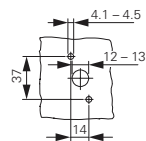
① Shaft extension possible with ZAV-P3 F 4 x 25 = 100 mm

Flush mounting main switches

T5(B).../EA/SVB

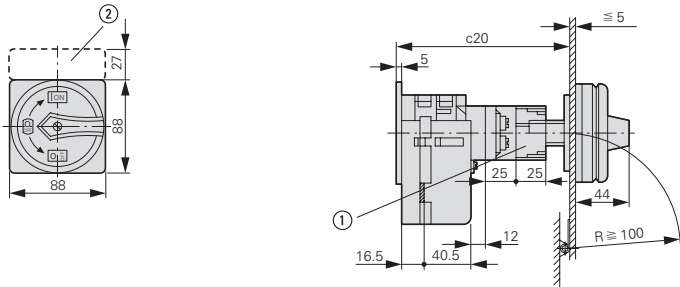


Drilling dimensions door



Rear mounting main switches

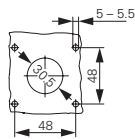
T5(B).../V/SVB



Drilling dimensions base



Drilling dimensions door



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

② Not included as standard

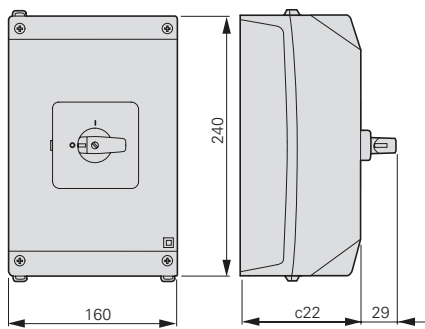
Part no.	c2	20 ≡ / ≧	c20 with ≧ 4 ZAV	c21	c22
T5(B)-1...	54	92 – 107	207	90	125 (95)
T5(B)-2...	71	109 – 124	224	90	125 (95)
T5(B)-3...	87	125 – 140	240	123	160 (160)
T5(B)-4...	104	142 – 157	257	123	160 (160)
T5(B)-5...	120	158 – 173	273	–	–
T5(B)-6...	137	175 – 190	290	–	–
T5(B)-7...	153	191 – 206	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

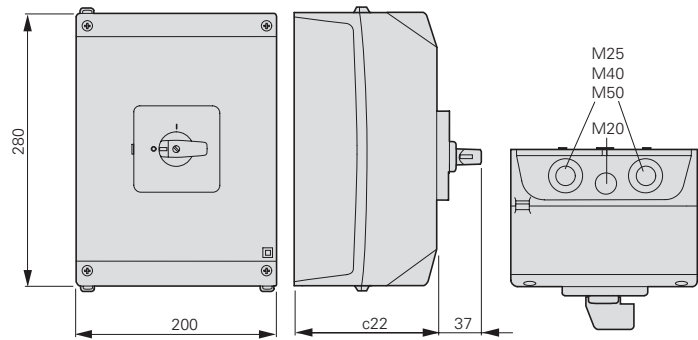
Cam switches T5B and T5 have identical designs, only their contacts are different

Surface mounting

T5B.../I4

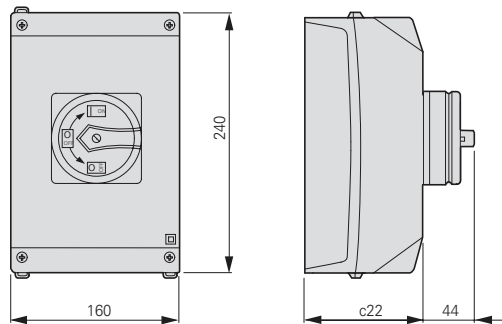


T5.../I5

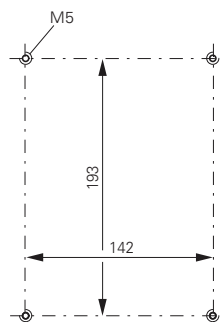


Surface mounting main switches

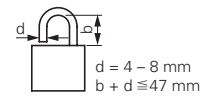
T5B.../I4/SVB



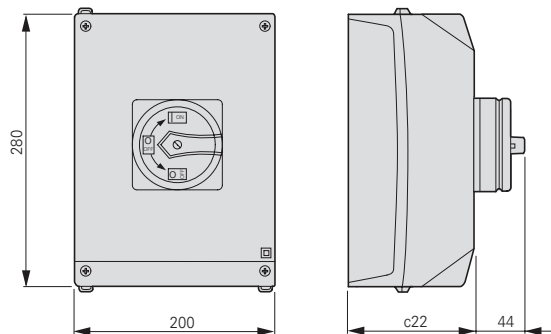
Drilling dimensions



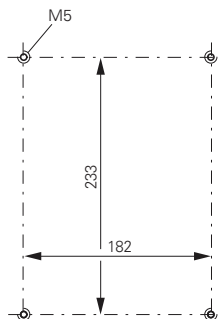
≅ 3 padlocks



T5.../I5/SVB

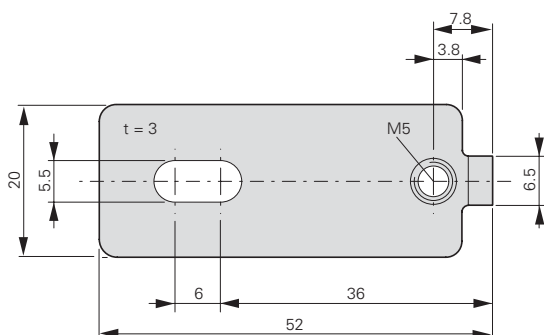


Drilling dimensions



External fixing brackets

AB-CI-K415



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

Depth of one contact unit: 16.5 mm

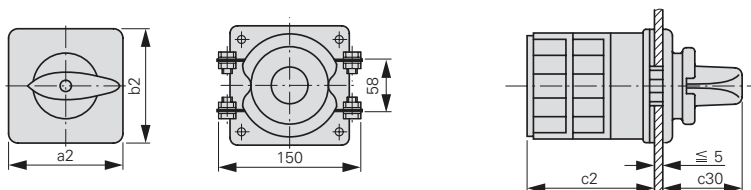
Cam switches T5B and T5 have identical designs, only their contacts are different

Cam switches, switch-disconnectors

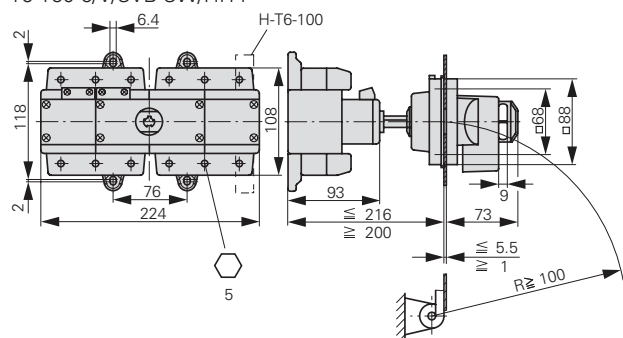
Cam switches

Flush mounting

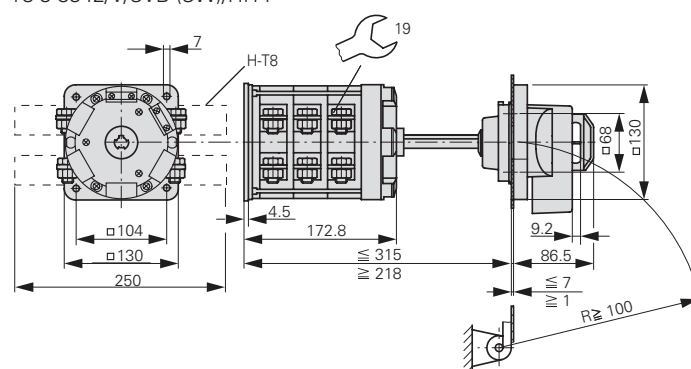
T6-3-8212/E/HI12
T8-3-8212/E/HI12



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

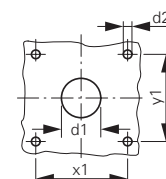


T8-3-8342/V/SVB-(SW)/HI11



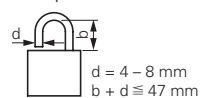
Part no.	a2	b2	c2	c30	d1	d2	x1	y1
T6-3-8212/E/HI12	88	88	152	44	Ø 26 – 30	Ø 6.0	68	68
T8-3-8212/E/HI12	130	130	173	62	Ø 22 – 25	Ø 7.0	104	104
T8-3-8342/V/SVB-(SW)/HI11	—	—	—	—	Ø 26 – 30	Ø 7.0	68	68

Drilling dimensions
door



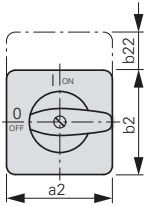
T6: 4 M5 x 20
T8: 4 M6 x 20

≅ 3 padlocks for T.../SVB

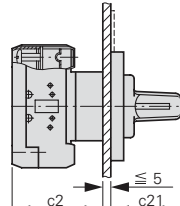
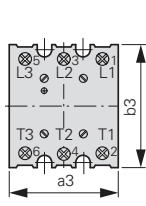


Flush mounting Center mounting

P.../E



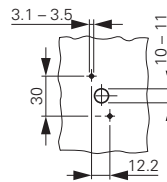
P1.../EZ



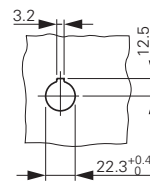
P1.../EZ = c2 + 5 mm

Drilling dimensions door

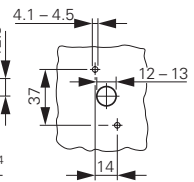
P1.../E



P1.../EZ

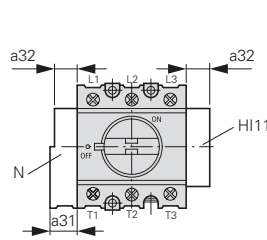
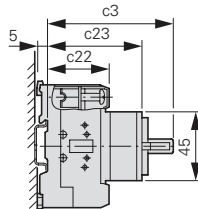
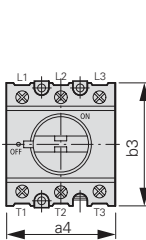


P3.../E

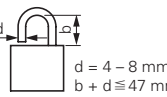


Service distribution board flush mounting

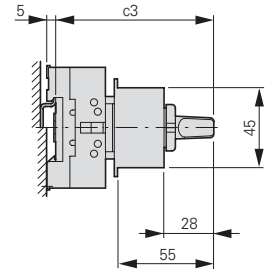
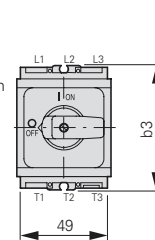
P3.../IVS



≅ 3 padlocks

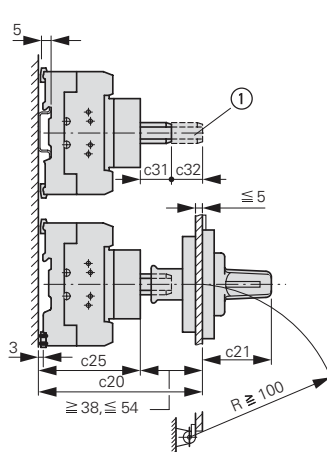
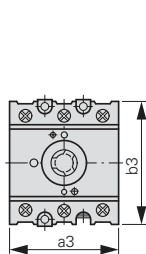
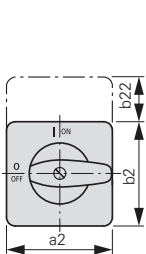


P1.../IVS

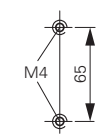


Rear mounting

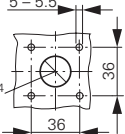
P.../Z



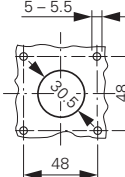
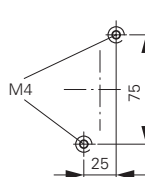
Drilling dimensions base
P1.../Z



Drilling dimensions door



P3.../Z



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

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

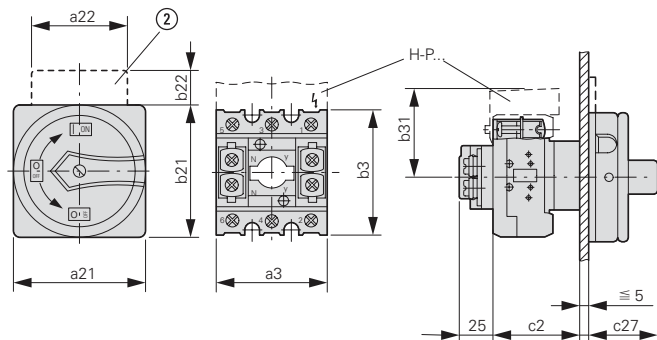
Part no.	c2	c3	c20 ≅ / ≅	c20 with ≅ 4 ZAV/ZW	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1	59	86	96 – 112	212	35	32	65	68	58	35	77	25	25	27
P3	59	82	103 – 118	218	37	41	63	81	65	44	90	25	25	29

Cam switches, switch-disconnectors

Switch-disconnectors

Flush mounting main switches

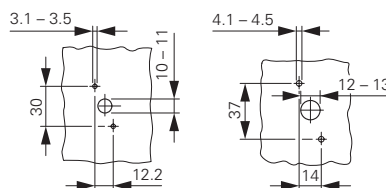
P.../EA/SVB



Drilling dimensions
door

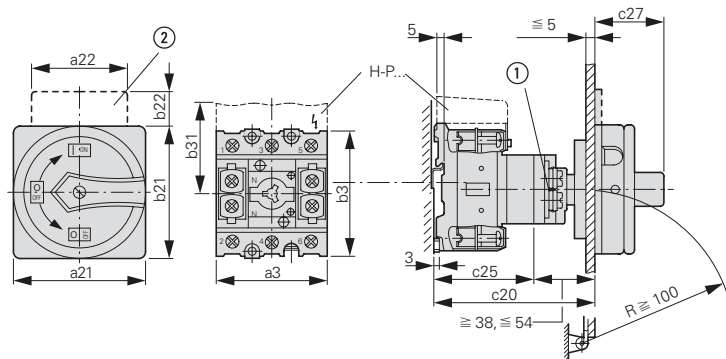
P1...

P3



Rear mounting main switches

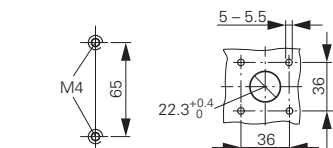
P.../V/SVB



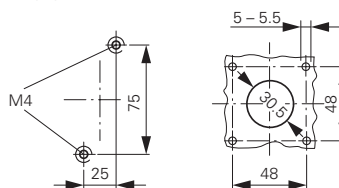
Drilling dimensions
base

Drilling dimensions
door

P1/V/SVB



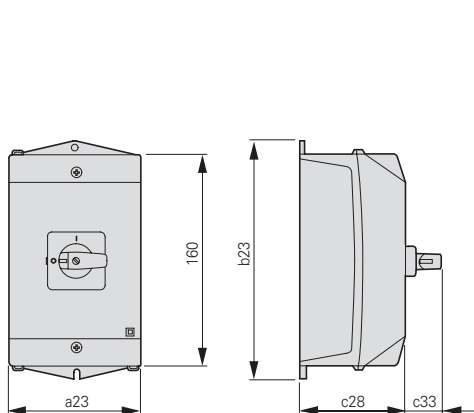
P3/V/SVB



- ① Interlock extension with ZVV...+ZAV... possible $\leq 4 \times 25 = 100$ mm
- ② Not included as standard

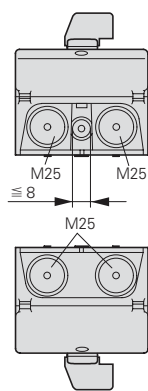
Surface mounting

P1.../I2

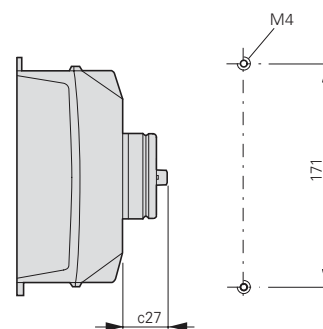


Surface mounting main switches/ safety switches

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



Drilling dimensions

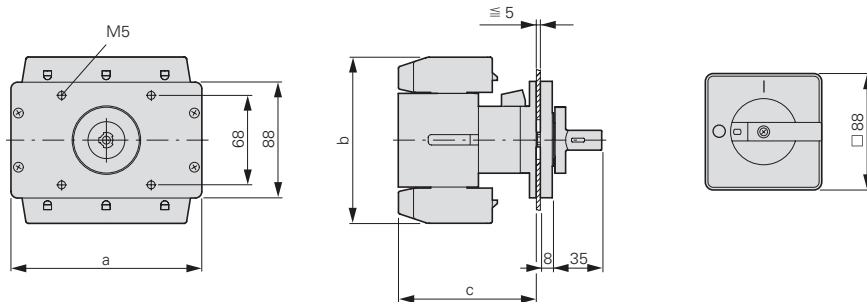


Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1.../I2	48	49	53.5	65	48	100	15	15	83	48	70	65	17	180	35.5	49

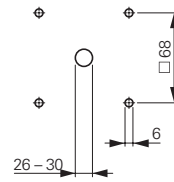
Part no.	c2	c3	c20 $\cong / \neq$	c20 with ≤ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1...	59	86	96 - 112	212	35	32	65	68	58	35	80	25	25	27

Flush mounting

P5.../E

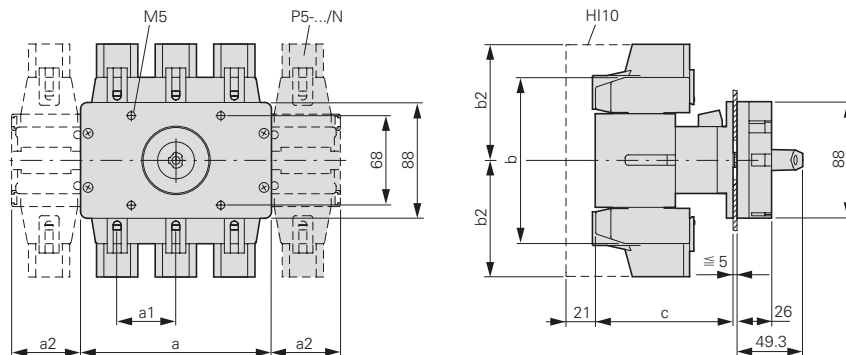


Drilling dimensions



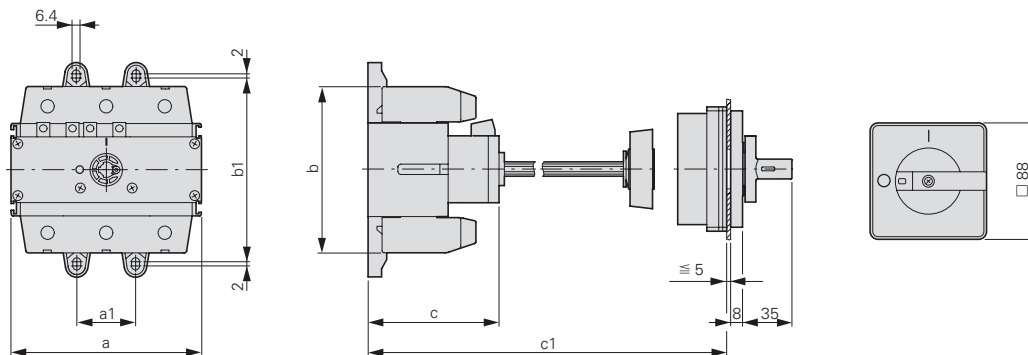
Flush mounting main switches

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

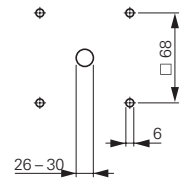


Rear mounting

P5.../Z

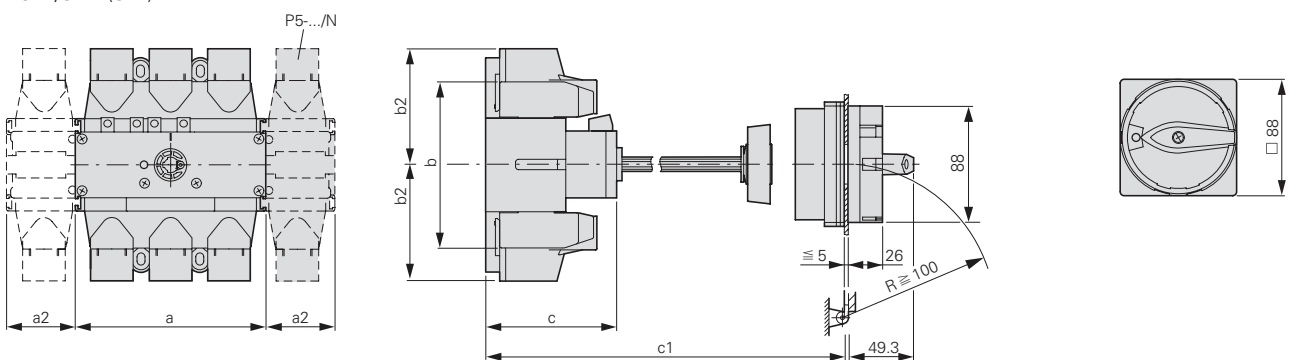


Drilling dimensions



Rear mounting main switches

P5.../SVB-(SW)



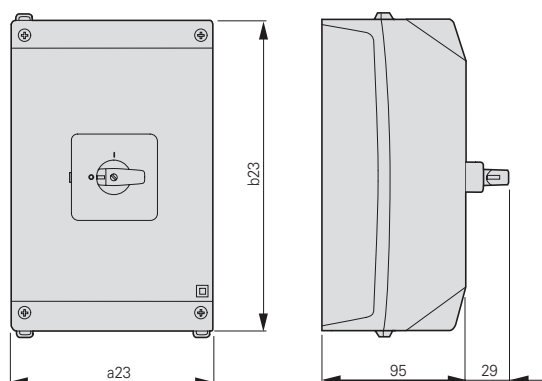
Part no.	a	a1	a2	b	b1	b2	c	c1
P5-125/160	112	36	38	108	120	76	91	≧ 130
P5-250/315	145	44	52.5	126	144	88	98	≧ 140

Cam switches, switch-disconnectors

Switch-disconnectors

Surface mounting

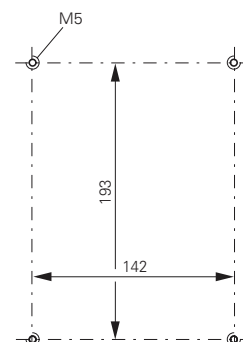
P3-63/I4



Surface mounting main switches/safety switches

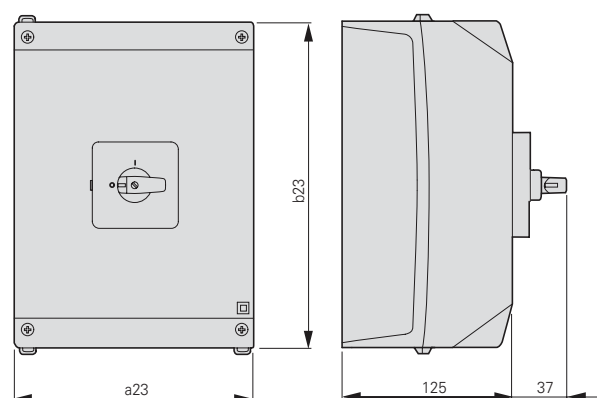
P3-63/I4/SVB
P3-63/I4/SI
T5B-.../I4/SI

Drilling dimensions



Surface mounting

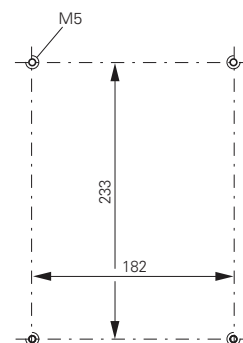
P3-100/I5



Surface mounting main switches/safety switches

P3-100/I5/SVB
P3-100/I5/SI
T5-.../I5/SI

Drilling dimensions

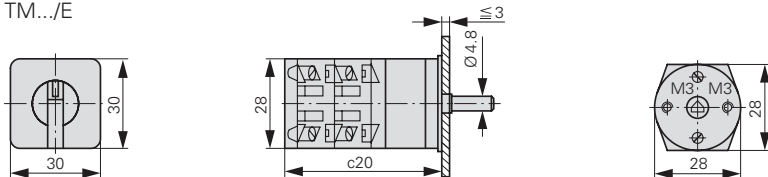


Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P3-63/I4	87	72	71.5	87	87	160	18	15	114	87	83	87	27	240	35.5	60
P3-100/I5	87	72	71.5	87	87	200	18	15	114	87	83	87	27	280	35.5	60

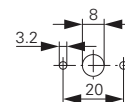
Part no.	c2	c3	c20 ≅/≅	c20 with ≅ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P3-63	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37
P3-100	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37

Flush mounting

TM.../E



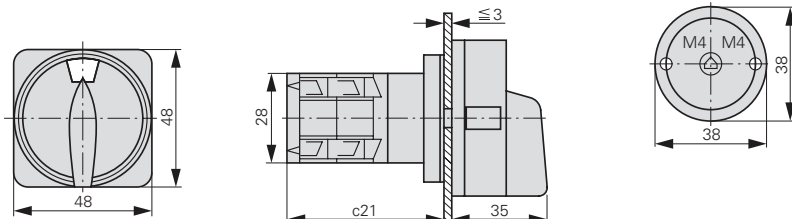
Drilling dimensions



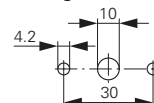
Control circuit isolators

for 2 padlocks Ø 4 mm or 1 padlock Ø 6 mm

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

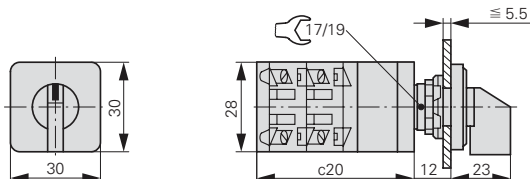


Drilling dimensions

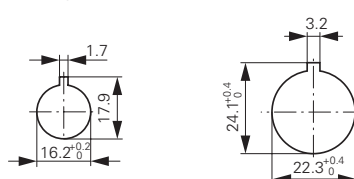


Center mounting

TM.../EZ

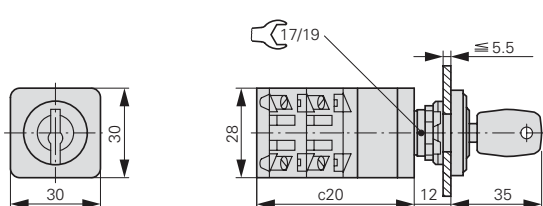


Drilling dimensions

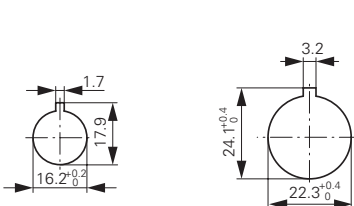


Center mounting with key operation

TM...+EZ/S-..



Drilling dimensions

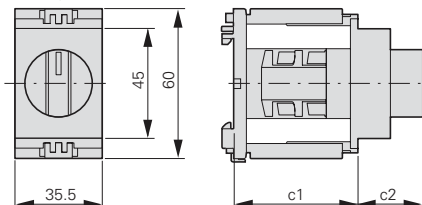


Part no.	c20	c21
TM-1	39	42
TM-2	51	54
TM-3	63	66
TM-4	75	
TM-5	87	
TM-6	99	
TM-7	111	
TM-8	123	

Depth of one contact unit: 12 mm

Service distribution board mounting

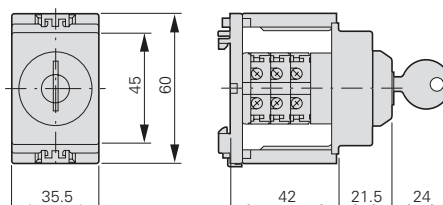
TM.../IVS



Part no.	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 optionally: 16.2 mm = without reduction Δ RMQ16; 22.3 mm = with reduction Δ RMQ Titan

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