

# 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 up to 315 A

## Cam switches, switch-disconnectors

### Technical overview

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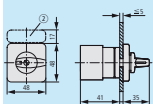
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## Mini rotary switches

### Technical overview

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### Description

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### System overview

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### Ordering

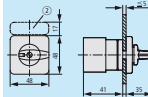
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### Technical data

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### Dimensions

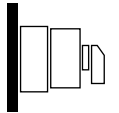


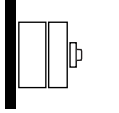


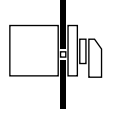
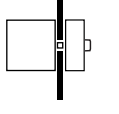
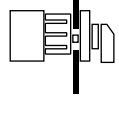
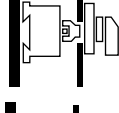
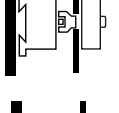
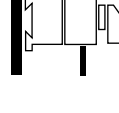
Mini rotary switches	4/111
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CI-K and CI basic enclosures and small enclosures	20/92
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T, P, TM

Switch, basic type	Part no.	TM	T0	T3	T5B
Max. motor rating AC-23 A, 400/415 V, 50/60 Hz		3.0 kW	6.5 kW	13 kW	22 kW
Max. rated operational current I <sub>n</sub>		≤ 10 A	20 A	32 A	63 A
<b>Switch-disconnectors</b>					
Main switches, maintenance/manual override switches		-	→ 4/10	→ 4/10	→ 4/10
On-Off switches		→ 4/70	→ 4/22	→ 4/22	→ 4/22
Safety switches with warning label		-	-	-	→ 4/30
Changeover switches		-	→ 4/32	→ 4/32	→ 4/32
Reversing switch with 0 position		-	→ 4/38	→ 4/38	→ 4/38
Star-delta switches		-	→ 4/38	→ 4/38	→ 4/38
Reversing star-delta switches		-	→ 4/38	→ 4/38	→ 4/38
Multi-speed switch		-	→ 4/40	→ 4/40	→ 4/40
Reversing multi-speed switches		-	→ 4/40	→ 4/40	→ 4/40
<b>Control switch</b>					
Step switch		→ 4/72	→ 4/42	-	-
On-Off switches		-	→ 4/46	-	-
Changeover switches		→ 4/71	→ 4/48	-	-
Manual/Auto switches		→ 4/72	→ 4/48	-	-
Push button switch		-	→ 4/50	-	-
Universal control switches		-	→ 4/52	-	-
Coding switches		→ 4/76	→ 4/52	-	-
Series switches		-	→ 4/52	-	-
Instrument selector switches		-	→ 4/54	-	-
Group switches		→ 4/75	-	-	-
ON OFF button		→ 4/75	-	-	-
Reversing switch		→ 4/76	-	-	-
<b>Switches with interlocks</b>					
Panic switches without emergency switching off function		-	→ 4/56	-	-
On-Off switches without Emergency-Stop function		-	→ 4/56	-	-
<b>Non-standard switches</b>					
		→ 4/83	→ 4/79	→ 4/80	→ 4/81
<b>Mounting form</b>					
 	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...	✓	✓	-	-

T, P, TM

T5	T6	T8	P1-25	P1-32	P3-63	P3-100	P5-125	P5-160	P5-250	P5-315
30 kW	55 kW	132 kW	13 kW	15 kW	37 kW	50 kW	45 kW	55 kW	90 kW	110 kW
100 A	160 A	315 A	25 A	32 A	63 A	100 A	125 A	160 A	250 A	315 A
→ 4/12	→ 4/14	→ 4/14	→ 4/10	→ 4/10	→ 4/10	→ 4/10	→ 4/10	→ 4/10	→ 4/10	→ 4/10
→ 4/26	-	-	→ 4/28	→ 4/22	→ 4/22	→ 4/22	→ 4/22	→ 4/22	→ 4/22	→ 4/22
→ 4/30	-	-	→ 4/30	→ 4/30	→ 4/30	→ 4/30	-	-	-	-
→ 4/32	→ 4/32	→ 4/32	-	-	-	-	-	-	-	-
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→ 4/82	-	-	-	-	-	-	-	-	-	-
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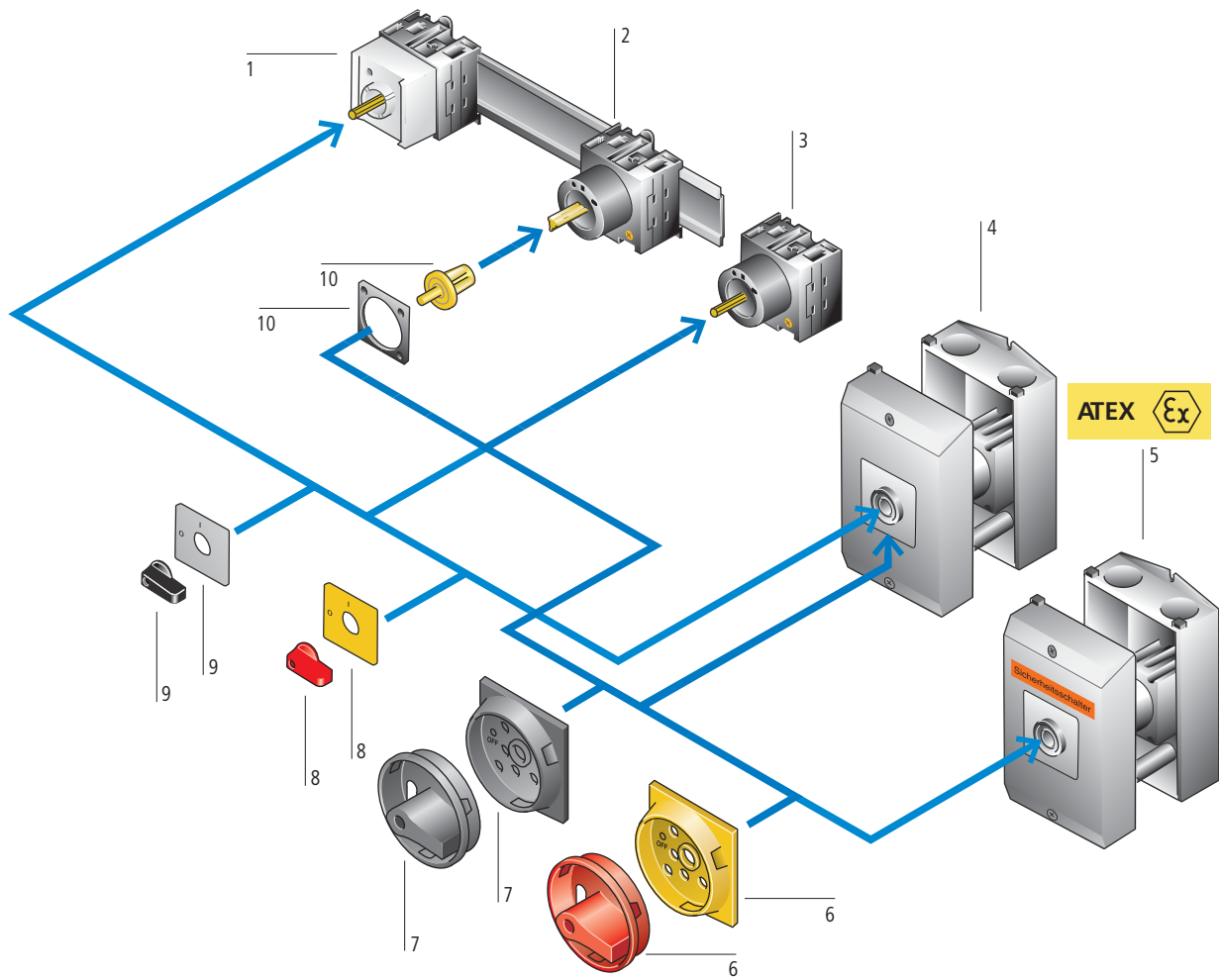
# 4/4 Cam switches, switch-disconnectors

Cam switches

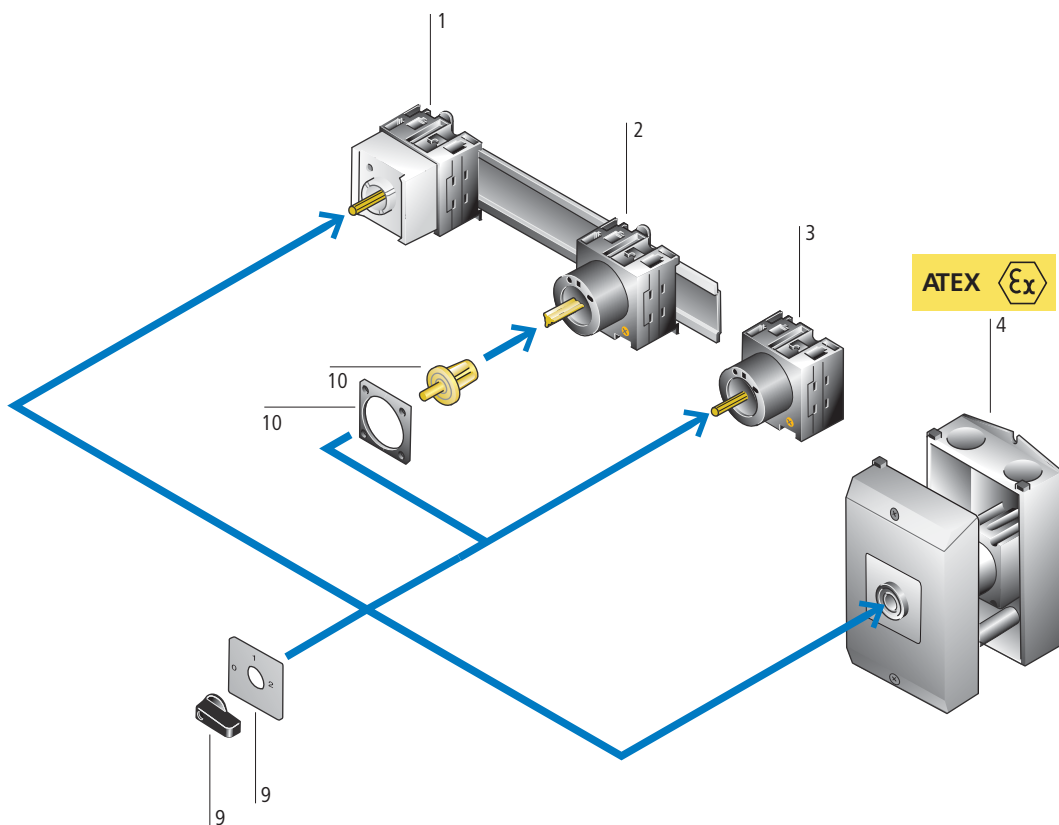
T



## System overview

ON-OFF switches T0, T3, T5B, T5



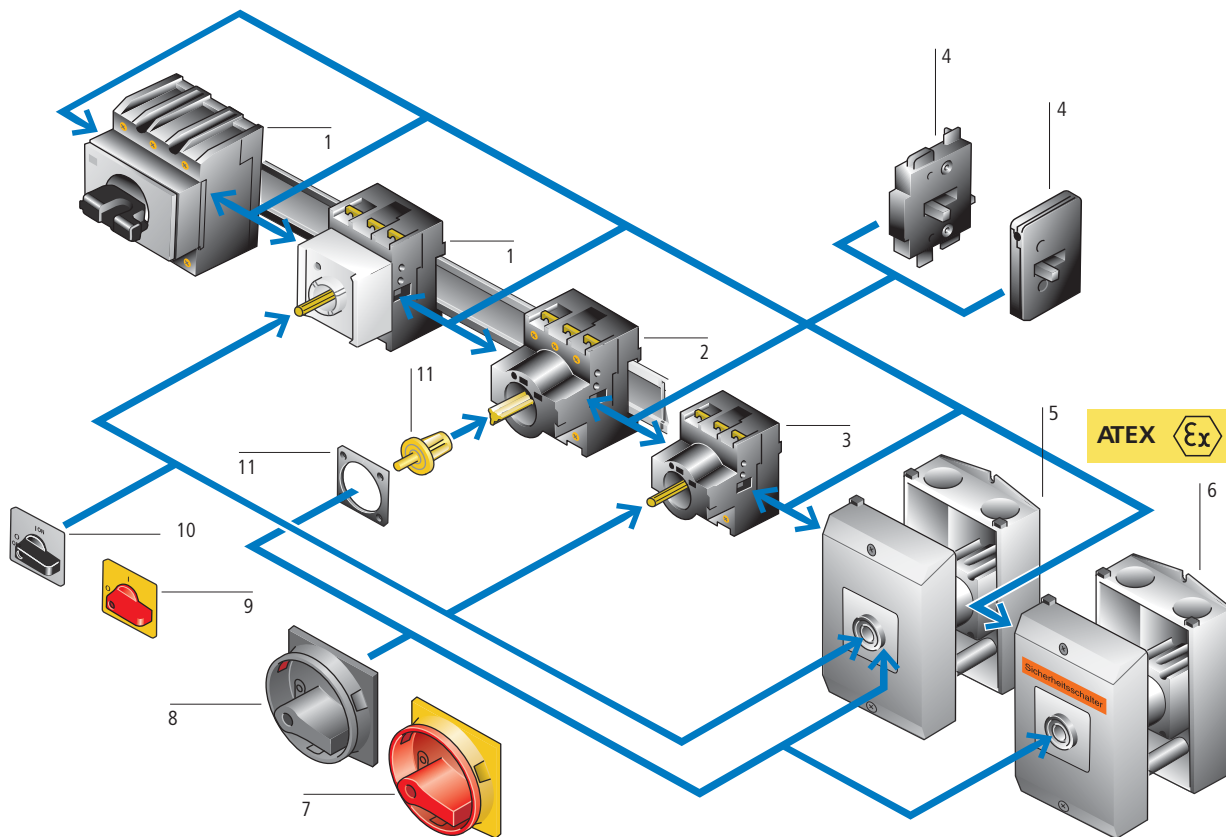
Control switches T0, T3, T5B, T5



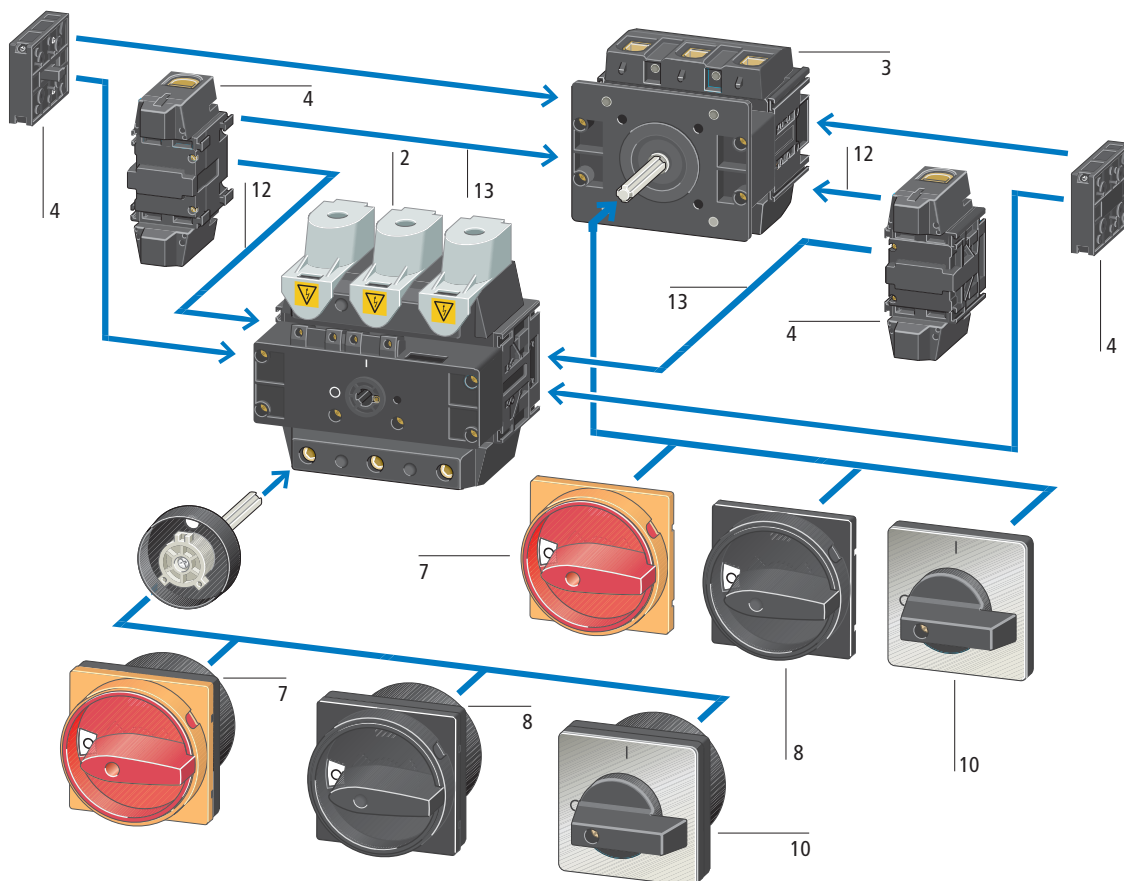
<b>Service distribution board mounting (.../IVS)</b> 1	<b>Flush mounting main switch (.../EA/SVB)</b> 3	<b>Surface mounting main switch (.../L...)</b> 4	<b>Main switch (kit) for use as emergency switching off device</b> 6
Front IP30	Front IP65	IP65	To IEC/EN 60204-1, VDE 0113 part 1
Can be snapped onto top-hat rail as per IEC/EN 60715 (only T0 and T3)	To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3, For T0...: up to 8 contacts; For T3...: up to 12 contacts	<b>totally insulated</b>	With red rotary handle and yellow locking collar
Mounting	N and PE terminal	To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3, For T0...: up to 8 contacts; For T3...: up to 10 contacts	Lockable in the 0 (Off) position
<ul style="list-style-type: none"> <li>In service distribution board up to 3 contact units (45 mm mounting depth)</li> <li>In control panel up to 11 contact units</li> </ul>	→ Page 4/10	Position 0 lockable with 3 padlocks	→ Page 4/58
→ Page 4/22	<b>Center mounting (.../EZ)</b> 3	Enclosures for metric cable glands to EN 50262	<b>Main switch (kit)</b> 7
<b>Rear mounting (.../Z)</b> 2	Front IP65	With an additional terminal	Black rotary handle and locking collar
Front IP65	Mounted in $\varnothing$ 22.3 fixing hole to IEC/EN 60947-5-1	→ Page 4/10	Lockable in the 0 position
Fixing: optionally with screw fixing or snap fitting, only T0 und T3	"One man mounting" by center fixing	<b>ATEX</b> 	→ Page 4/58
For snap fitting to IEC/EN 60715 top-hat rail	→ Page 4/22	→ Page 4/58	<b>Thumb-grip, for use as emergency switching off device</b> 8
Drive coupling in door or cover	<b>Surface mounting (.../L...)</b> 4	<b>Safety switch (.../L...)</b> 5	To IEC/EN 60204-1, VDE 0113 part 1
Connection from front	IP65	IP65	Red thumb-grip and yellow front plate
→ Page 4/22	<b>totally insulated</b>	With an additional terminal	→ Page 4/58
<b>Rear mounting main switch (.../SVB)</b> 2	With an additional terminal	With cover fixing in 0 position	<b>Thumb-grip</b> 9
Front IP65	Enclosures for metric cable glands to EN 50262	Position 0 lockable with 3 padlocks	Black thumb-grip with front plate
To IEC/EN 60204, VDE 0113 and IEC/EN 60947-3	→ Page 4/22	Enclosures for metric cable glands to EN 50262	→ Page 4/58
For T0...: up to 8 contacts; For T3...: up to 12 contacts	<b>Surface mounting (.../L...)</b> 4	"Safety Switch" label; color: orange	<b>Coupling drive</b> 10
With door interlock in "I" position	IP65	→ Page 4/30	Including push-fit shaft
→ Page 4/10	<b>totally insulated</b>	<b>ATEX</b> 	For the retrofitting of switch T0(T3)-.../XZ as rear mounting, spare part for T0(T3)/(P1)-.../Z
<b>Flush mounting (.../E)</b> 3	With an additional terminal	→ Page 4/58	For the conversion of T5(B)-.../E flush mounting switch to rear mounting, spare part for T5(B)/(P3)-...Z
Front IP65	Enclosures for metric cable glands to EN 50262		→ Page 4/65
Flush mounting and connection from rear	→ Page 4/22		<b>Note:</b>
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 4/22			







ON-OFF switches P1, P3



ON OFF switches P5



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



T0, T3, T5, T5B

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).

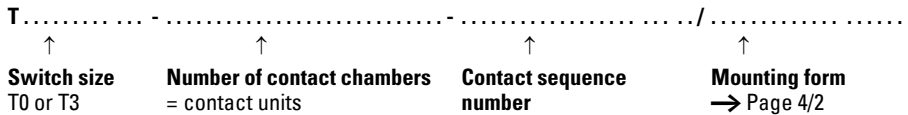
The following pages feature a selection of our standard contact sequences.

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

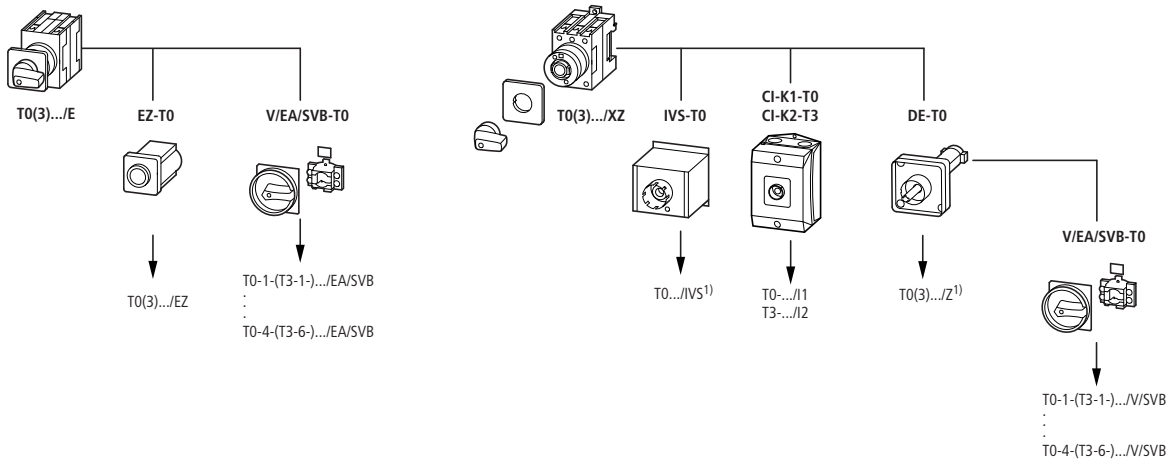
The CI-K... insulated enclosures are silicon and halogen free.

Cam switches T0 and T3

Key to part numbers

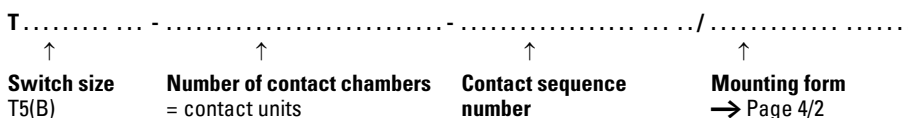


Using the modular system to convert the mounting form

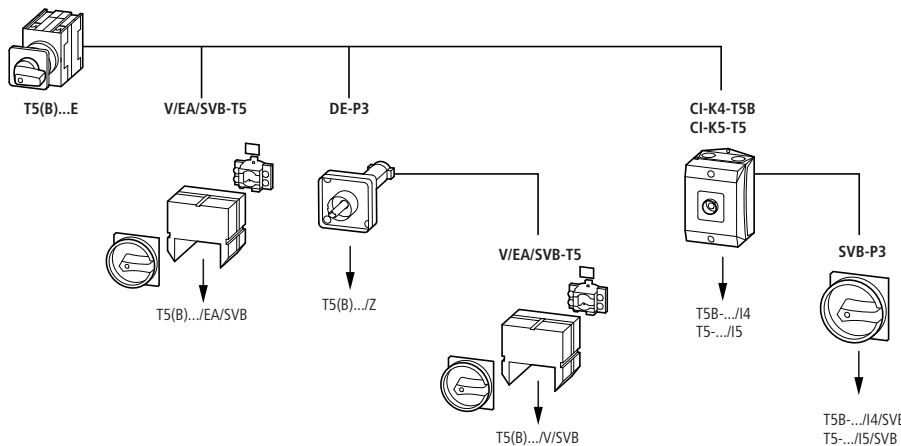


Cam switch T5B

Key to part numbers



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



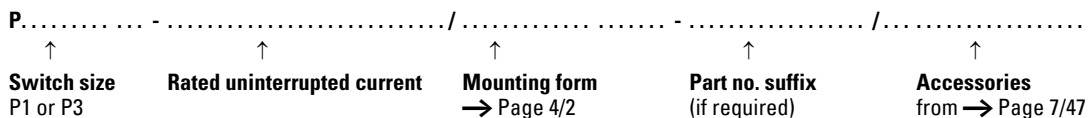
Note

1) Including shaft

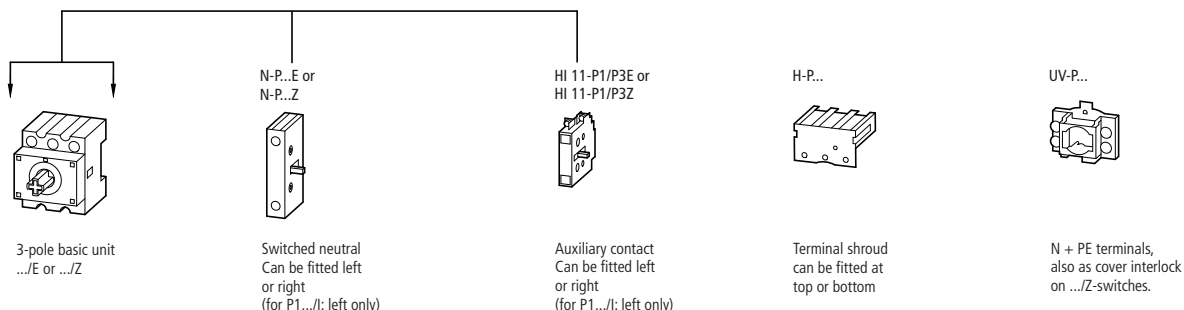


Switch-disconnectors P1 and P3

Key to part numbers



Add-on functions due to modular system



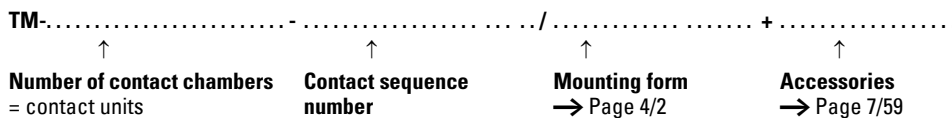
TM mini cam switches

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.

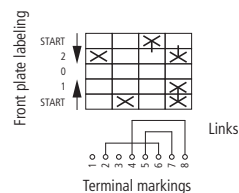
TM switches have consecutive terminal markings starting with 1.

Selection pages: Starting on → Page 7/54

Key to part numbers



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

Ordering

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
		Pole N/O	N/O N/C	400 V P kW	I <sub>u</sub> 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

	1	0	0	6.5	20		<b>T0-1-8200/EA/SVB</b> 053110		1 Off
				13	32		<b>T3-1-8200/EA/SVB<sup>1)</sup></b> 066576		
				22	63		<b>T5B-1-8200/EA/SVB<sup>3)</sup></b> 094279		
	2	0	0	6.5	20		<b>T0-1-102/EA/SVB<sup>1)</sup></b> 091078		
				13	32		<b>T3-1-102/EA/SVB<sup>1)</sup></b> 014374		
				22	63		<b>T5B-1-102/EA/SVB<sup>3)</sup></b> 094469		
				30	100		<b>T5-1-102/EA/SVB</b> 098808		1 Off
	3	0	0	6.5	20		<b>T0-2-1/EA/SVB<sup>1)</sup></b> 038873		1 Off
				13	25		<b>P1-25/EA/SVB<sup>1)</sup></b> 041097		
				13	25				
				15	32		<b>P1-32/EA/SVB<sup>1)</sup></b> 081438		
				37	63		<b>P3-63/EA/SVB<sup>1)</sup></b> 031607		
				45	125		<b>P5-125/EA/SVB<sup>4)</sup></b> 280898		
				50	100		<b>P3-100/EA/SVB<sup>1)</sup></b> 074320		
				55	160		<b>P5-160/EA/SVB<sup>4)</sup></b> 280922		
				90	250		<b>P5-250/EA/SVB<sup>4)</sup></b> 280936		
				110	315		<b>P5-315/EA/SVB<sup>4)</sup></b> 280950		
	3 + N	0	0	6.5	20		<b>T0-2-8900/EA/SVB<sup>1)</sup></b> 207400		1 Off
	3 + N	0	0	13	25		<b>P1-25/EA/SVB/N<sup>1)</sup></b> 081587		
				13	25				
				15	32		<b>P1-32/EA/SVB/N<sup>1)</sup></b> 091079		
				15	32				
				37	63		<b>P3-63/EA/SVB/N<sup>1)</sup></b> 010398		
				45	125		<b>P5-125/EA/SVB/N<sup>4)</sup></b> 280910		
				50	100		<b>P3-100/EA/SVB/N<sup>1)</sup></b> 019890		
				55	160		<b>P5-160/EA/SVB/N<sup>4)</sup></b> 280924		


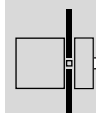
Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America
<b>T0-1-8200/11/SVB</b> 207145		1 Off	<b>T0-1-8200/V/SVB</b> 057856		1 Off	1) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE 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
<b>T3-1-8200/12/SVB<sup>2)</sup></b> 207200		1 Off	<b>T3-1-8200/V/SVB<sup>1)</sup></b> 007255		1 Off	
<b>T5B-1-8200/14/SVB<sup>3)</sup></b> 207240		1 Off	<b>T5B-1-8200/V/SVB<sup>3)</sup></b> 094273		1 Off	
<b>T0-1-102/11/SVB</b> 207143		1 Off	<b>T0-1-102/V/SVB<sup>1)</sup></b> 095824		1 Off	
<b>T3-1-102/12/SVB<sup>2)</sup></b> 207198		1 Off	<b>T3-1-102/V/SVB<sup>1)</sup></b> 019120		1 Off	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 Suitable for Branch circuits, suitable as motor disconnect Degree of Protection IEC: IP65; UL/CSA Type 3R, 12
<b>T5B-1-102/14/SVB<sup>3)</sup></b> 207238		1 Off	<b>T5B-1-102/V/SVB<sup>3)</sup></b> 094463		1 Off	
<b>T5-1-102/15/SVB</b> 207273		1 Off			1 Off	
<b>T0-2-1/11/SVB</b> 207147		1 Off	<b>T0-2-1/V/SVB<sup>1)</sup></b> 043619		1 Off	
<b>P1-25/12/SVB<sup>2)</sup></b> 207293		1 Off	<b>P1-25/V/SVB<sup>2)</sup></b> 055335		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: IP65; UL/CSA Type 3R, 12
<b>P1-25/12H/SVB</b> 226900		1 Off			1 Off	
<b>P1-32/12/SVB<sup>2)</sup></b> 207314		1 Off	<b>P1-32/V/SVB<sup>1)</sup></b> 095676		1 Off	
<b>P3-63/14/SVB<sup>1)</sup></b> 207343		1 Off	<b>P3-63/V/SVB<sup>1)</sup></b> 048218		1 Off	
			<b>P5-125/V/SVB<sup>4)</sup></b> 280914		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
<b>P3-100/15/SVB<sup>1)</sup></b> 207373		1 Off	<b>P3-100/V/SVB<sup>1)</sup></b> 088558		1 Off	
			<b>P5-160/V/SVB<sup>4)</sup></b> 280928		1 Off	
			<b>P5-250/V/SVB<sup>4)</sup></b> 280942		1 Off	
<b>T0-2-8900/11/SVB</b> 207151		1 Off	<b>T0-2-8900/V/SVB<sup>1)</sup></b> 207405		1 Off	1) 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 1, 3R, 12, 13
<b>P1-25/12/SVB/N<sup>2)</sup></b> 207298		1 Off	<b>P1-25/V/SVB/N<sup>2)</sup></b> 086333		1 Off	
<b>P1-25/12H/SVB/N</b> 227860		1 Off			1 Off	
<b>P1-32/12/SVB/N<sup>2)</sup></b> 207319		1 Off	<b>P1-32/V/SVB/N<sup>1)</sup></b> 095825		1 Off	
<b>P1-32/12H/SVB/N</b> 227871		1 Off			1 Off	2) 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
<b>P3-63/14/SVB/N<sup>1)</sup></b> 207349		1 Off	<b>P3-63/V/SVB/N<sup>1)</sup></b> 015144		1 Off	
			<b>P5-125/V/SVB/N<sup>4)</sup></b> 280916		1 Off	
<b>P3-100/15/SVB/N<sup>1)</sup></b> 207379		1 Off	<b>P3-100/V/SVB/N<sup>1)</sup></b> 024636		1 Off	
			<b>P5-160/V/SVB/N<sup>4)</sup></b> 280930		1 Off	

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 <sub>u</sub> A				
<b>Main switch as emergency switching off/emergency stop device</b>									
With red rotary handle and yellow locking collar To IEC/EN 60204-1, VDE 0113 Part 1 Lockable in the 0 (Off) position									
<b>Without auxiliary contacts</b>									
		3 + N	0	0	90	250	P5-250/EA/SVB/N <sup>4)</sup> 280938		1 Off 
		3 + N	0	0	110	315	P5-315/EA/SVB/N <sup>4)</sup> 280952		
		6	0	0	6.5	20	T0-3-8342/EA/SVB <sup>1)</sup> 029382		
					13	32	T3-3-8342/EA/SVB <sup>1)</sup> 071326		
					22	63	T5B-3-8342/EA/SVB <sup>3)</sup> 092308		
					30	100	T5-3-8342/EA/SVB 096383		1 Off
		8	0	0	6.5	20	T0-4-8344/EA/SVB <sup>1)</sup> 008267		1 Off 
					13	32	T3-4-8344/EA/SVB <sup>1)</sup> 008964		
					22	63	T5B-4-8344/EA/SVB <sup>3)</sup> 092062		
					30	95			
					30	100	T5-4-8344/EA/SVB 095961		1 Off
<b>With auxiliary contacts</b>									
		3	1	0	6.5	20	T0-2-15679/EA/SVB <sup>1)</sup> 081588		1 Off 
		3	1	1	13	25	P1-25/EA/SVB/Hi11 <sup>1)</sup> 091080		
					13	25			
					15	32	P1-32/EA/SVB/Hi11 <sup>1)</sup> 072567		
					15	32			
					37	63	P3-63/EA/SVB/Hi11 <sup>1)</sup> 019891		
					50	100	P3-100/EA/SVB/Hi11 <sup>1)</sup> 029383		
		3	1	0	45	125	P5-125/EA/SVB/Hi10 <sup>4)</sup> 280899		1 Off 
					55	160	P5-160/EA/SVB/Hi10 <sup>4)</sup> 280923		
					90	250	P5-250/EA/SVB/Hi10 <sup>4)</sup> 280937		
					110	315	P5-315/EA/SVB/Hi10 <sup>4)</sup> 280951		

Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America
<b>Without auxiliary contacts</b>						
			P5-250/V/SVB/N <sup>4)</sup> 280944		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 UL 508; CSA-C22.2 No. 14-05; E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
			P5-315/V/SVB/N <sup>4)</sup> 280958			
T0-3-8342/I1/SVB 207159		1 Off	T0-3-8342/V/SVB <sup>1)</sup> 034128			
T3-3-8342/I2/SVB <sup>2)</sup> 207208		1 Off 	T3-3-8342/V/SVB <sup>1)</sup> 076072			
T5B-3-8342/I4/SVB <sup>3)</sup> 207242		1 Off 	T5B-3-8342/V/SVB <sup>3)</sup> 092300			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. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection UL 508; CSA-C22.2 No. 14-05; E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
T5-3-8342/I5/SVB 207279		1 Off	T5-3-8342/V/SVB 096381		1 Off	
T0-4-8344/I1/SVB 207163		1 Off	T0-4-8344/V/SVB <sup>1)</sup> 014007		1 Off 	
T3-4-8344/I2/SVB <sup>2)</sup> 207212		1 Off 	T3-4-8344/V/SVB <sup>1)</sup> 020598			
T5B-4-8344/I4/SVB <sup>3)</sup> 207248		1 Off 	T5B-4-8344/V/SVB <sup>3)</sup> 092056			3) 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 UL 508; CSA-C22.2 No. 14-05; E36332 NLRV7 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 1, 3R, 12, 13
T5-4-8344/I5/SVB 207283		1 Off	T5-4-8344/V/SVB 095959		1 Off	
T0-2-15679/I1/SVB 207149		1 Off	T0-2-15679/V/SVB <sup>1)</sup> 086334		1 Off 	
P1-25/I2/SVB/Hi11 <sup>2)</sup> 207297		1 Off 	P1-25/V/SVB/Hi11 <sup>1)</sup> 095826			
P1-25/I2H/SVB/Hi11 226902		1 Off				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 UL 508; CSA-C22.2 No. 14-05; E36332 NLRV, NLRV7 223805 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
P1-32/I2/SVB/Hi11 <sup>1)</sup> 207318		1 Off 	P1-32/V/SVB/Hi11 <sup>1)</sup> 015145			
P1-32/I2H/SVB/Hi11 227870		1 Off				
P3-63/I4/SVB/Hi11 <sup>1)</sup> 207348		1 Off 	P3-63/V/SVB/Hi11 <sup>1)</sup> 024637			
P3-100/I5/SVB/Hi11 <sup>1)</sup> 207378		1 Off 	P3-100/V/SVB/Hi11 <sup>1)</sup> 034129			
			P5-125/V/SVB/Hi10 <sup>4)</sup> 280915		1 Off 	
			P5-160/V/SVB/Hi10 <sup>4)</sup> 280929			
			P5-250/V/SVB/Hi10 <sup>4)</sup> 280943			
			P5-315/V/SVB/Hi10 <sup>4)</sup> 280957			

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 <sub>u</sub> A				
<b>Main switch as emergency switching off/emergency stop device</b>									
With red rotary handle and yellow locking collar To IEC/EN 60204-1, VDE 0113 Part 1 Lockable in the 0 (Off) position									
<b>With auxiliary contacts</b>									
		3	2 1	6.5	20		<b>T0-3-15683/EA/SVB<sup>1)</sup></b> 015571		1 Off
		3	2 1	13	32		<b>T3-3-15683/EA/SVB<sup>1)</sup></b> 040478		
		3 + N	1 1	6.5	20		<b>T0-3-15680/EA/SVB<sup>1)</sup></b> 038875		
				13	32		<b>P1-25/EA/SVB/N/HI11<sup>1)</sup></b> 048367		
				13	32		<b>T3-3-15680/EA/SVB<sup>1)</sup></b> 012002		
		3 + N	1 1	15	32		<b>P1-32/EA/SVB/N/HI11<sup>1)</sup></b> 057859		
		3 + N	1 1	6.5	20		<b>T0-3-8901/EA/SVB<sup>1)</sup></b> 231932		1 Off
				13	32		<b>T3-3-8901/EA/SVB<sup>1)</sup></b> 231945		
				22	63		<b>T5B-3-8901/EA/SVB<sup>3)</sup></b> 207420		
				30	100		<b>T5-3-8901/EA/SVB</b> 207408		1 Off
		3 + N	1 1	37	63		<b>P3-63/EA/SVB/N/HI11<sup>1)</sup></b> 067351		1 Off
		3 + N	1 1	50	100		<b>P3-100/EA/SVB/N/HI11<sup>1)</sup></b> 076843		
		6	1 1	6.5	20		<b>T0-4-15682/EA/SVB<sup>1)</sup></b> 019892		
				13	32		<b>T3-4-15682/EA/SVB<sup>1)</sup></b> 054716		
				22	63		<b>T5B-4-15682/EA/SVB<sup>3)</sup></b> 207425		
				30	100		<b>T5-4-15682/EA/SVB</b> 207413		
		6	1 1	55	160				
		6	1 1	132	275				








Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America
<b>T0-3-15683/11/SVB</b> 207157		1 Off	<b>T0-3-15683/V/SVB<sup>1)</sup></b> 015634		1 Off	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
<b>T3-3-15683/I2/SVB<sup>2)</sup></b> 207206		1 Off	<b>T3-3-15683/V/SVB<sup>1)</sup></b> 045224			
<b>T0-3-15680/11/SVB</b> 207153		1 Off	<b>T0-3-15680/V/SVB<sup>1)</sup></b> 043621			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 Suitable for Branch circuits, suitable as motor disconnect Degree of Protection IEC: IP65; UL/CSA Type 3R, 12
<b>T3-3-15680/I2/SVB<sup>2)</sup></b> 207202		1 Off	<b>T0-3-15680/V/SVB<sup>1)</sup></b> 053113			
<b>T0-3-8901/11/SVB</b> 231934		1 Off	<b>T3-3-8901/V/SVB<sup>1)</sup></b> 016748			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: IP65; UL/CSA Type 1, 3R, 12, 13
<b>T3-3-8901/I2/SVB<sup>2)</sup></b> 218987		1 Off	<b>P1-32/V/SVB/N/HI11<sup>1)</sup></b> 062605			
<b>T5B-3-8901/I4/SVB<sup>3)</sup></b> 207244		1 Off	<b>T5B-3-8901/V/SVB<sup>3)</sup></b> 207422		1 Off	Notes <sup>5)</sup> Enclosure without flanges with K95/1N/BR <sup>6)</sup> With KS4-C1 and K150/1/BR: Ingress protection IP64
<b>T5-3-8901/I5/SVB</b> 207277		1 Off	<b>P3-63/V/SVB/N/HI11<sup>1)</sup></b> 072097			
<b>P3-63/I4/SVB/N/HI11<sup>1)</sup></b> 207350		1 Off	<b>P3-100/V/SVB/N/HI11<sup>1)</sup></b> 081589		1 Off	
<b>P3-100/I5/SVB/N/HI11<sup>1)</sup></b> 207380		1 Off	<b>T0-4-15682/I1/SVB</b> 207161		1 Off	
<b>T0-4-15682/I1/SVB</b> 207161		1 Off	<b>T3-4-15682/I2/SVB<sup>2)</sup></b> 207210		1 Off	
<b>T3-4-15682/I2/SVB<sup>2)</sup></b> 207210		1 Off	<b>T5B-4-15682/I4/SVB<sup>3)</sup></b> 207246		1 Off	
<b>T5B-4-15682/I4/SVB<sup>3)</sup></b> 207246		1 Off	<b>T0-4-15682/V/SVB<sup>1)</sup></b> 024638			
<b>T5-4-15682/I5/SVB</b> 207281		1 Off	<b>T3-4-15682/V/SVB<sup>1)</sup></b> 059462			
<b>T6-160-6/I45/SVB/HI11<sup>5)</sup></b> 201448			<b>T5B-4-15682/V/SVB<sup>3)</sup></b> 207427		1 Off	
<b>T8-3-8342/I48/SVB/HI11<sup>6)</sup></b> 201450			<b>T5-4-15682/V/SVB</b> 207415		1 Off	
			<b>T6-160-6/V/SVB/HI11</b> 200619			
			<b>T8-3-8342/V/SVB/HI11</b> 200620			

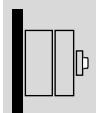
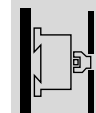

Contact sequence	Front plate no.	Main contacts	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
		Pole N/O	N/O N/C	400 V P kW	I <sub>u</sub> A				
















**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		<b>T0-1-8200/EA/SVB-SW<sup>(1)</sup></b> 055483		1 Off 
				13	32		<b>T3-1-8200/EA/SVB-SW<sup>(1)</sup></b> 068949		
				22	63		<b>T5B-1-8200/EA/SVB-SW<sup>(3)</sup></b> 094278		
	2	0	0	6.5	20		<b>T0-1-102/EA/SVB-SW<sup>(1)</sup></b> 093451		
				13	32		<b>T3-1-102/EA/SVB-SW<sup>(1)</sup></b> 016747		
				22	63		<b>T5B-1-102/EA/SVB-SW<sup>(3)</sup></b> 094468		
				30	100		<b>T5-1-102/EA/SVB-SW</b> 098807		1 Off
	3	0	0	6.5	20		<b>T0-2-1/EA/SVB-SW<sup>(1)</sup></b> 041246		1 Off 
				13	25		<b>P1-25/EA/SVB-SW<sup>(1)</sup></b> 048365		
				13	25				
				15	32		<b>P1-32/EA/SVB-SW<sup>(1)</sup></b> 053111		
				15	32				
				37	63		<b>P3-63/EA/SVB-SW<sup>(1)</sup></b> 057857		
				50	100		<b>P3-100/EA/SVB-SW<sup>(1)</sup></b> 062603		
				45	125		<b>P5-125/EA/SVB-SW<sup>(4)</sup></b> 280911		
				55	160		<b>P5-160/EA/SVB-SW<sup>(4)</sup></b> 280925		
				90	250		<b>P5-250/EA/SVB-SW<sup>(4)</sup></b> 280939		
				110	315		<b>P5-315/EA/SVB-SW<sup>(4)</sup></b> 280953		
	3 + N	0	0	6.5	20		<b>T0-2-8900/EA/SVB-SW<sup>(1)</sup></b> 207401		1 Off 
				13	25		<b>P1-25/EA/SVB-SW/N<sup>(1)</sup></b> 083960		
				13	25				
				15	32		<b>P1-32/EA/SVB-SW/N<sup>(1)</sup></b> 093452		
				15	32				
				15	32				
				37	63		<b>P3-63/EA/SVB-SW/N<sup>(1)</sup></b> 012771		
				50	100		<b>P3-100/EA/SVB-SW/N<sup>(1)</sup></b> 022263		

Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America
						

<b>T0-1-8200/11/SVB-SW</b> 207146		1 Off	<b>T0-1-8200/V/SVB-SW<sup>(1)</sup></b> 060229		1 Off 	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
<b>T3-1-8200/12/SVB-SW<sup>(2)</sup></b> 207201		1 Off 	<b>T3-1-8200/V/SVB-SW<sup>(1)</sup></b> 004882			
<b>T5B-1-8200/14/SVB-SW<sup>(3)</sup></b> 207241		1 Off 				
<b>T0-1-102/11/SVB-SW</b> 207144		1 Off	<b>T0-1-102/V/SVB-SW<sup>(1)</sup></b> 022330			
<b>T3-1-102/12/SVB-SW<sup>(2)</sup></b> 207199		1 Off 	<b>T3-1-102/V/SVB-SW<sup>(1)</sup></b> 021493			
<b>T5B-1-102/14/SVB-SW<sup>(3)</sup></b> 207239		1 Off 	<b>T5B-1-102/V/SVB-SW<sup>(3)</sup></b> 094462			
<b>T0-2-1/11/SVB-SW</b> 207148		1 Off	<b>T0-2-1/V/SVB-SW<sup>(1)</sup></b> 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 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
<b>P1-25/12/SVB-SW<sup>(2)</sup></b> 207294		1 Off 	<b>P1-25/V/SVB-SW<sup>(2)</sup></b> 050738			
<b>P1-25/12H/SVB-SW</b> 227861		1 Off				
<b>P1-32/12/SVB-SW<sup>(2)</sup></b> 207315		1 Off 	<b>P1-32/V/SVB-SW<sup>(1)</sup></b> 055484			
<b>P1-32/12H/SVB-SW</b> 227872		1 Off				
<b>P3-63/14/SVB-SW<sup>(1)</sup></b> 207344		1 Off 	<b>P3-63/V/SVB-SW<sup>(1)</sup></b> 060230			
<b>P3-100/15/SVB-SW<sup>(1)</sup></b> 207374		1 Off 	<b>P3-100/V/SVB-SW<sup>(1)</sup></b> 064976			
			<b>P5-125/V/SVB-SW<sup>(4)</sup></b> 280917			3) 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 1, 3R, 12, 13
			<b>P5-160/V/SVB-SW<sup>(4)</sup></b> 280931			
			<b>P5-250/V/SVB-SW<sup>(4)</sup></b> 280945			
			<b>P5-315/V/SVB-SW<sup>(4)</sup></b> 280959			
<b>T0-2-8900/11/SVB-SW</b> 207152		1 Off	<b>T0-2-8900/V/SVB-SW<sup>(1)</sup></b> 207406		1 Off 	
<b>P1-25/12/SVB-SW/N<sup>(2)</sup></b> 207296		1 Off 	<b>P1-25/V/SVB-SW/N<sup>(1)</sup></b> 088706			
<b>P1-25/12H/SVB-SW/N</b> 227863		1 Off				
<b>P1-32/12/SVB-SW/N<sup>(2)</sup></b> 207317		1 Off 	<b>P1-32/V/SVB-SW/N<sup>(1)</sup></b> 098198			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
<b>P1-32/12H/SVB-SW/N</b> 227874		1 Off				
<b>P1-32/12H/N</b> 227869		1 Off				
<b>P3-63/14/SVB-SW/N<sup>(1)</sup></b> 207346		1 Off 	<b>P3-63/V/SVB-SW/N<sup>(1)</sup></b> 017517			
<b>P3-100/15/SVB-SW/N<sup>(1)</sup></b> 207376		1 Off 	<b>P3-100/V/SVB-SW/N<sup>(1)</sup></b> 027009			

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
		Pole N/O	N/O N/C	400 V P kW	I <sub>u</sub> 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		<b>P5-125/EA/SVB-SW/N<sup>(4)</sup></b> 280913		1 Off
				55	160		<b>P5-160/EA/SVB-SW/N<sup>(4)</sup></b> 280927		
				90	250		<b>P5-250/EA/SVB-SW/N<sup>(4)</sup></b> 280941		
				110	315		<b>P5-315/EA/SVB-SW/N<sup>(4)</sup></b> 280955		
	6	0	0	6.5	20		<b>T0-3-8342/EA/SVB-SW<sup>(1)</sup></b> 031755		1 Off
				13	32		<b>T3-3-8342/EA/SVB-SW<sup>(1)</sup></b> 073699		
				22	63		<b>T5B-3-8342/EA/SVB-SW<sup>(3)</sup></b> 092307		
				30	100		<b>T5-3-8342/EA/SVB-SW</b> 096382		1 Off
	8	0	0	6.5	20		<b>T0-4-8344/EA/SVB-SW<sup>(1)</sup></b> 008268		1 Off
				13	32		<b>T3-4-8344/EA/SVB-SW<sup>(1)</sup></b> 008965		
				22	63		<b>T5B-4-8344/EA/SVB-SW<sup>(3)</sup></b> 092061		
				30	95				
				30	100		<b>T5-4-8344/EA/SVB-SW</b> 095960		1 Off
With auxiliary contacts									
	3	1	0	6.5	20		<b>T0-2-15679/EA/SVB-SW<sup>(1)</sup></b> 083961		1 Off
	3	1	1	13	25		<b>P1-25/EA/SVB-SW/HI1<sup>(1)</sup></b> 070194		
			1	13	25				
			1	13	25				
			1	15	32		<b>P1-32/EA/SVB-SW/HI1<sup>(1)</sup></b> 012772		
			1	15	32				
			1	37	63		<b>P3-63/EA/SVB-SW/HI1<sup>(1)</sup></b> 022264		
			1	50	100		<b>P3-100/EA/SVB-SW/HI1<sup>(1)</sup></b> 031756		
	3	1	0	45	125		<b>P5-125/EA/SVB-SW/HI10<sup>(4)</sup></b> 280912		1 Off
			0	55	160		<b>P5-160/EA/SVB-SW/HI10<sup>(4)</sup></b> 280926		
			0	90	250		<b>P5-250/EA/SVB-SW/HI10<sup>(4)</sup></b> 280940		
			0	110	315		<b>P5-315/EA/SVB-SW/HI10<sup>(4)</sup></b> 280954		
	3	2	1	6.5	20		<b>T0-3-15683/EA/SVB-SW<sup>(1)</sup></b> 015600		1 Off
	3	2	1	13	32		<b>T3-3-15683/EA/SVB-SW<sup>(1)</sup></b> 042851		1 Off

Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America

			<b>P5-125/V/SVB-SW/N<sup>(4)</sup></b> 280919		1 Off	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
			<b>P5-160/V/SVB-SW/N<sup>(4)</sup></b> 280933			
			<b>P5-250/V/SVB-SW/N<sup>(4)</sup></b> 280947			
			<b>P5-315/V/SVB-SW/N<sup>(4)</sup></b> 280961			
<b>T0-3-8342/11/SVB-SW</b> 207160		1 Off	<b>T0-3-8342/V/SVB-SW<sup>(1)</sup></b> 036501		1 Off	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 Suitable for Branch circuits, suitable as motor disconnect Degree of Protection IEC: IP65; UL/CSA Type 3R, 12
<b>T3-3-8342/12/SVB-SW<sup>(2)</sup></b> 207209	1 Off		<b>T3-3-8342/V/SVB-SW<sup>(1)</sup></b> 078445		1 Off	
<b>T5B-3-8342/14/SVB-SW<sup>(3)</sup></b> 207243	1 Off		<b>T5B-3-8342/V/SVB-SW<sup>(3)</sup></b> 092299		1 Off	
<b>T5-3-8342/15/SVB-SW</b> 207280	1 Off		<b>T5-3-8342/V/SVB-SW</b> 096380		1 Off	
<b>T0-4-8344/11/SVB-SW</b> 207164		1 Off	<b>T0-4-8344/V/SVB-SW<sup>(1)</sup></b> 008272		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: IP65; UL/CSA Type 1, 3R, 12, 13
<b>T3-4-8344/12/SVB-SW<sup>(2)</sup></b> 207213	1 Off		<b>T3-4-8344/V/SVB-SW<sup>(1)</sup></b> 008967		1 Off	
<b>T5B-4-8344/14/SVB-SW<sup>(3)</sup></b> 207249	1 Off		<b>T5B-4-8344/V/SVB-SW<sup>(3)</sup></b> 092055		1 Off	
<b>T5-4-8344/15/SVB-SW</b> 207284	1 Off		<b>T5-4-8344/V/SVB-SW</b> 095958		1 Off	
<b>T0-2-15679/11/SVB-SW</b> 207150		1 Off	<b>T0-2-15679/V/SVB-SW<sup>(1)</sup></b> 088707		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
<b>P1-25/12/SVB-SW/HI1<sup>(2)</sup></b> 207295	1 Off		<b>P1-25/V/SVB-SW/HI1<sup>(1)</sup></b> 098199		1 Off	
<b>P1-25/12H/SVB-SW/HI11</b> 227862	1 Off					
<b>P1-25/12H/SVB/HI11</b> 226902	1 Off					
<b>P1-32/12/SVB-SW/HI1<sup>(1)</sup></b> 207316	1 Off		<b>P1-32/V/SVB-SW/HI1<sup>(1)</sup></b> 017518		1 Off	
<b>P1-32/12H/SVB-SW/HI11</b> 227873	1 Off					
<b>P3-63/14/SVB-SW/HI1<sup>(1)</sup></b> 207345	1 Off		<b>P3-63/V/SVB-SW/HI1<sup>(1)</sup></b> 027010		1 Off	
<b>P3-100/15/SVB-SW/HI1<sup>(1)</sup></b> 207375	1 Off		<b>P3-100/V/SVB-SW/HI1<sup>(1)</sup></b> 036502		1 Off	
			<b>P5-125/V/SVB-SW/HI10<sup>(4)</sup></b> 280918		1 Off	
			<b>P5-160/V/SVB-SW/HI10<sup>(4)</sup></b> 280932			
			<b>P5-250/V/SVB-SW/HI10<sup>(4)</sup></b> 280946			
			<b>P5-315/V/SVB-SW/HI10<sup>(4)</sup></b> 280960			
<b>T0-3-15683/11/SVB-SW</b> 207158		1 Off	<b>T0-3-15683/V/SVB-SW<sup>(1)</sup></b> 015664		1 Off	
<b>T3-3-15683/12/SVB-SW<sup>(2)</sup></b> 207207	1 Off				1 Off	

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
		Pole N/O	N/O N/C	400 V P kW	I <sub>u</sub> 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	<b>T0-3-15680/EA/SVB-SW<sup>(1)</sup></b> 041248		1 Off	
				13	32	<b>P1-25/EA/SVB-SW/N/HI11<sup>(1)</sup></b> 050740			
				13	32	<b>T3-3-8901/EA/SVB-SW<sup>(1)</sup></b> 231946			
				15	32	<b>P1-32/EA/SVB-SW/N/HI11<sup>(1)</sup></b> 060232			
	3 + N	1	1	6.5	20	<b>T0-3-8901/EA/SVB-SW<sup>(1)</sup></b> 231933		1 Off	
				13	32	<b>T3-3-15680/EA/SVB-SW<sup>(1)</sup></b> 014375			
				22	63	<b>T5B-3-8901/EA/SVB-SW<sup>(3)</sup></b> 207421			
				30	100	<b>T5-3-8901/EA/SVB-SW</b> 207409		1 Off	
	3 + N	1	1	37	63	<b>P3-63/EA/SVB-SW/N/HI11<sup>(1)</sup></b> 069724		1 Off	
	3 + N	1	1	50	100	<b>P3-100/EA/SVB-SW/N/HI11<sup>(1)</sup></b> 079216		1 Off	
	6	1	1	6.5	20	<b>T0-4-15682/EA/SVB-SW<sup>(1)</sup></b> 022265		1 Off	
				13	32	<b>T3-4-15682/EA/SVB-SW<sup>(1)</sup></b> 057089			
				22	63	<b>T5B-4-15682/EA/SVB-SW<sup>(3)</sup></b> 207426			
				30	100	<b>T5-4-15682/EA/SVB-SW</b> 207414		1 Off	
	6	1	1	55	160				
				132	275				
				132	315				

Surface mounting IP65	Price See price list	Std. pack	Rear mounting Front IP65	Price See price list	Std. pack	Information relevant for export to North America

<b>T0-3-15680/11/SVB-SW</b> 207154		1 Off	<b>T0-3-15680/V/SVB-SW<sup>(1)</sup></b> 045994		1 Off	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
<b>T3-3-15680/12/SVB-SW<sup>(4)</sup></b> 207203		1 Off	<b>T3-3-15680/V/SVB-SW<sup>(1)</sup></b> 019121		1 Off	
			<b>P1-32/V/SVB-SW/N/HI11<sup>(1)</sup></b> 064978		1 Off	
<b>T0-3-8901/11/SVB-SW</b> 231935		1 Off			1 Off	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 Suitable for Branch circuits, suitable as motor disconnect Degree of Protection IEC: IP65; UL/CSA Type 3R, 12
<b>T3-3-8901/12/SVB-SW<sup>(2)</sup></b> 218988		1 Off	<b>P1-25/V/SVB-SW/N/HI11<sup>(1)</sup></b> 055486		1 Off	
<b>T5B-3-8901/14/SVB-SW<sup>(3)</sup></b> 207245		1 Off	<b>T5B-3-8901/V/SVB-SW<sup>(3)</sup></b> 207423		1 Off	
<b>T5-3-8901/15/SVB-SW</b> 207278		1 Off			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 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 1, 3R, 12, 13
<b>P3-63/14/SVB-SW/N/HI11<sup>(1)</sup></b> 207347		1 Off	<b>P3-63/V/SVB-SW/N/HI11<sup>(1)</sup></b> 074470		1 Off	
<b>P3-100/15/SVB-SW/N/HI11<sup>(1)</sup></b> 207377		1 Off	<b>P3-100/V/SVB-SW/N/HI11<sup>(1)</sup></b> 083962		1 Off	
<b>T0-4-15682/11/SVB-SW</b> 207162		1 Off	<b>T0-4-15682/V/SVB-SW<sup>(1)</sup></b> 027011		1 Off	1 Off
<b>T3-4-15682/12/SVB-SW<sup>(2)</sup></b> 207211		1 Off	<b>T3-4-15682/V/SVB-SW<sup>(1)</sup></b> 061835		1 Off	
<b>T5B-4-15682/14/SVB-SW<sup>(3)</sup></b> 207247		1 Off	<b>T5B-4-15682/V/SVB-SW<sup>(3)</sup></b> 207428		1 Off	
<b>T5-4-15682/15/SVB-SW</b> 207282		1 Off	<b>T5-4-15682/V/SVB-SW</b> 207416		1 Off	1 Off
<b>T6-160-6/145/SVB-SW/HI11<sup>(5)</sup></b> 201447		1 Off	<b>T6-160-6/V/SVB-SW/HI11</b> 200127		1 Off	
<b>T8-3-8342/148/SVB-SW/HI11<sup>(6)</sup></b> 201449		1 Off	<b>T8-3-8342/V/SVB-SW/HI11</b> 200128		1 Off	

**Notes**  
<sup>5)</sup> Enclosure without flanges with K95/1N/BR  
<sup>6)</sup> With KS4-CI and K150/1/BR: Ingress protection IP64

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		Std. pack
			Part no. Article no.	Price See price list	Part no. Article no.			Price See price list				
			N/O	N/O	N/C	P kW	I <sub>u</sub> A					
<b>On-Off switches</b>												
Without auxiliary contacts												
With black thumb-grip and front plate												
		1	0	0	6.5	20	<b>T0-1-8200/E<sup>(1)</sup></b> 067352	<b>T0-1-8200/EZ<sup>(2)</sup></b> 069725			1 Off	
		1	0	0	6.5	20						
		1	0	0	13	32	<b>T3-1-8200/E<sup>(4)</sup></b> 064208	<b>T3-1-8200/EZ<sup>(4)</sup></b> 066581			1 Off	
		1	0	0	22	63	<b>T5B-1-8200/E<sup>(6)</sup></b> 094281				1 Off	
		2	0	0	6.5	20	<b>T0-1-102/E<sup>(1)</sup></b> 088709	<b>T0-1-102/EZ<sup>(2)</sup></b> 091082			1 Off	
		2	0	0	6.5	20						
		2	0	0	13	32	<b>T3-1-102/E<sup>(1)</sup></b> 076073	<b>T3-1-102/EZ<sup>(1)</sup></b> 078446			1 Off	
		2	0	0	22	63	<b>T5B-1-102/E<sup>(6)</sup></b> 094471				1 Off	
		3	0	0	6.5	20	<b>T0-2-1/E<sup>(1)</sup></b> 024639	<b>T0-2-1/EZ<sup>(1)</sup></b> 027012			1 Off	
		3	0	0	6.5	20						
		3	0	0	13	25	<b>P1-25/E<sup>(1)</sup></b> 038724	<b>P1-25/EZ<sup>(1)</sup></b> 041250			1 Off	
		3	0	0	13	25						
		3	0	0	15	32	<b>P1-32/E<sup>(1)</sup></b> 079065	<b>P1-32/EZ<sup>(1)</sup></b> 048369			1 Off	
		3	0	0	15	32						
		3	0	0	37	63	<b>P3-63/E<sup>(8)</sup></b> 026861				1 Off	
		3	0	0	45	125	<b>P5-125/E<sup>(9)</sup></b> 280897				1 Off	
		3	0	0	50	100	<b>P3-100/E<sup>(8)</sup></b> 067201				1 Off	
		3	0	0	55	160	<b>P5-160/E<sup>(9)</sup></b> 280921				1 Off	
		3	0	0	90	250	<b>P5-250/E<sup>(9)</sup></b> 280935				1 Off	
		3	0	0	110	315	<b>P5-315/E<sup>(9)</sup></b> 280949				1 Off	
		3 + N	0	0	6.5	20	<b>T0-2-8900/E<sup>(1)</sup></b> 207398	<b>T0-2-8900/EZ<sup>(1)</sup></b> 207402			1 Off	
		3 + N	0	0	13	25	<b>P1-25/E/N<sup>(1)</sup></b> 076845	<b>P1-25/EZ/N<sup>(1)</sup></b> 079218			1 Off	
		3 + N	0	0	13	25						
		3 + N	0	0	15	32	<b>P1-32/E/N<sup>(1)</sup></b> 093456	<b>P1-32/EZ/N<sup>(1)</sup></b> 095829			1 Off	
		3 + N	0	0	15	32						
		3 + N	0	0	37	63	<b>P3-63/E/N<sup>(8)</sup></b> 019894				1 Off	
		3 + N	0	0	50	100	<b>P3-100/E/N<sup>(8)</sup></b> 031759				1 Off	
		4	0	0	6.5	20					1 Off	

Surface mounting IP65	Distribution board - mounting Front IP30	Rear mounting Front IP65	Information relevant for export to North America		
			Part no. Article no.	Price See price list	Std. pack
<b>T0-1-8200/11</b> 207074	<b>T0-1-8200/IVS<sup>(3)</sup></b> 074471	<b>T0-1-8200/Z<sup>(1)</sup></b> 076844			1 Off
		<b>T0-1-15401/Z<sup>(1)</sup></b> 048346			
<b>T3-1-8200/12<sup>(4)</sup></b> 207167		<b>T3-1-8200/Z<sup>(4)</sup></b> 071327			1 Off
<b>T5B-1-8200/14<sup>(5)</sup></b> 207218		<b>T5B-1-8200/Z<sup>(6)</sup></b> 094270			1 Off
<b>T0-1-102/11</b> 207061	<b>T0-1-102/IVS<sup>(3)</sup></b> 015147	<b>T0-1-102/Z<sup>(1)</sup></b> 095828			1 Off
		<b>T0-1-15402/Z<sup>(1)</sup></b> 062584			
<b>T3-1-102/12<sup>(4)</sup></b> 207165		<b>T3-1-102/Z<sup>(4)</sup></b> 083192			1 Off
<b>T5B-1-102/14<sup>(5)</sup></b> 207215		<b>T5B-1-102/Z<sup>(6)</sup></b> 094460			1 Off
<b>T0-2-1/11</b> 207081	<b>T0-2-1/IVS<sup>(3)</sup></b> 031758	<b>T0-2-1/Z<sup>(1)</sup></b> 036504			1 Off
<b>T0-2-15403/11</b> 207088		<b>T0-2-15403/Z<sup>(1)</sup></b> 076822			1 Off
<b>P1-25/12<sup>(8)</sup></b> 207299	<b>P1-25/IVS<sup>(7)</sup></b> 052962	<b>P1-25/Z<sup>(8)</sup></b> 057708			1 Off
<b>P1-25/12H</b> 226898					1 Off
<b>P1-32/12<sup>(8)</sup></b> 207320	<b>P1-32/IVS<sup>(7)</sup></b> 093303	<b>P1-32/Z<sup>(8)</sup></b> 098049			1 Off
<b>P1-32/12H</b> 227866					1 Off
<b>P3-63/14<sup>(8)</sup></b> 207356	<b>P3-63/IVS<sup>(7)</sup></b> 041099	<b>P3-63/Z<sup>(8)</sup></b> 050591			1 Off
		<b>P5-125/Z<sup>(9)</sup></b> 280920			
<b>P3-100/15<sup>(8)</sup></b> 207381	<b>P3-100/IVS<sup>(7)</sup></b> 081439	<b>P3-100/Z<sup>(8)</sup></b> 090931			1 Off
		<b>P5-160/Z<sup>(9)</sup></b> 280934			
		<b>P5-250/Z<sup>(9)</sup></b> 280948			
		<b>P5-315/Z<sup>(9)</sup></b> 280962			
<b>T0-2-8900/11</b> 207109	<b>T0-2-8900/IVS<sup>(3)</sup></b> 207403	<b>T0-2-8900/Z<sup>(1)</sup></b> 207407			1 Off
<b>P1-25/12/N<sup>(8)</sup></b> 207303	<b>P1-25/IVS/N<sup>(7)</sup></b> 083964	<b>P1-25/Z/N<sup>(8)</sup></b> 088710			1 Off
<b>P1-25/12H/N</b> 226901					1 Off
<b>P1-32/12/N<sup>(8)</sup></b> 207324	<b>P1-32/IVS/N<sup>(7)</sup></b> 010402	<b>P1-32/Z/N<sup>(8)</sup></b> 015148			1 Off
<b>P1-32/12H/N</b> 227869					1 Off
<b>P3-63/14/N<sup>(8)</sup></b> 207360	<b>P3-63/IVS/N<sup>(7)</sup></b> 022267	<b>P3-63/Z/N<sup>(8)</sup></b> 027013			1 Off
<b>P3-100/15/N<sup>(8)</sup></b> 207385	<b>P3-100/IVS/N<sup>(7)</sup></b> 034132	<b>P3-100/Z/N<sup>(8)</sup></b> 038878			1 Off
<b>T0-2-15404/11</b> 207089	<b>T0-2-15404/IVS<sup>(3)</sup></b> 088687	<b>T0-2-15404/Z<sup>(1)</sup></b> 091060			1 Off

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- 2) → Page 4/24
- 3) → Page 4/24
- 4) → Page 4/24
- 5) → Page 4/24
- 6) → Page 4/24
- 7) → Page 4/24
- 8) → Page 4/24
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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 uninterrupted current	Flush mounting Front IP65		Center mounting Front IP65		Std. pack
						Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	
	FS 908		N/O N/O N/C	P kW	I <sub>u</sub> A					
<b>On-Off switches</b>										
Without auxiliary contacts										
With black thumb-grip and front plate										
		6	0	0	6.5	20	<b>T0-3-8342/E<sup>1)</sup></b> 043624	<b>T0-3-8342/EZ<sup>1)</sup></b> 045997		1 Off
		6	0	0	13	32	<b>T3-3-8342/E<sup>4)</sup></b> 045225			
		6	0	0	22	63	<b>T5B-3-8342/E<sup>6)</sup></b> 092310			
		8	0	0	6.5	20	<b>T0-4-8344/E<sup>1)</sup></b> 014000	<b>T0-4-8344/EZ<sup>1)</sup></b> 014002		
		8	0	0	13	32	<b>T3-4-8344/E<sup>4)</sup></b> 020593	<b>T3-4-8344/EZ<sup>4)</sup></b> 020595		
		8	0	0	22	63	<b>T5B-4-8344/E<sup>6)</sup></b> 092064			

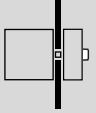
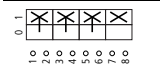

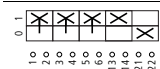

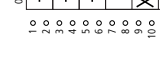
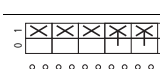

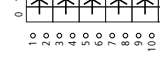

Information relevant for export to North America



<p>1) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type 3R, 12</p>	<p>2) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type: –</p>	<p>3) Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP30; UL/CSA Type: –</p>
<p>6) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-07</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type 1</p>	<p>7) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type: –</p>	<p>8) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type 3R, 12</p>

Surface mounting IP65		Std. pack	Distribution board - mounting Front IP30		Rear mounting Front IP65		Std. pack	Information relevant for export to North America
Part no. Article no.	Price See price list		Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
<b>T0-3-8342/I1</b> 207131		1 Off	<b>T0-3-8342/IVS<sup>3)</sup></b> 050743		<b>T0-3-8342/Z<sup>1)</sup></b> 055489		1 Off	
<b>T3-3-8342/I2<sup>4)</sup></b> 207187		1 Off			<b>T3-3-8342/Z<sup>4)</sup></b> 052344			
<b>T5B-3-8342/I4<sup>5)</sup></b> 207226		1 Off			<b>T5B-3-8342/Z<sup>6)</sup></b> 092297			
<b>T0-4-8344/I1</b> 207139		1 Off	<b>T0-4-8344/IVS<sup>3)</sup></b> 014006		<b>T0-4-8344/Z<sup>1)</sup></b> 014009			
<b>T3-4-8344/I2<sup>4)</sup></b> 207194		1 Off			<b>T3-4-8344/Z<sup>4)</sup></b> 020600			
<b>T5B-4-8344/I4<sup>5)</sup></b> 207233		1 Off						

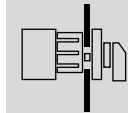
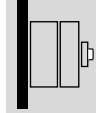
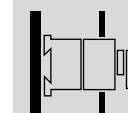
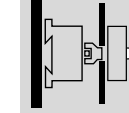







<p>4) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-07</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type 3R, 12</p>	<p>5) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 12528</p> <p>CSA Class No. 3211-07</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type: –</p>
<p>9) Product Standards UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking</p> <p>UL File No. E36332</p> <p>UL CCN NLRV</p> <p>CSA File No. 223805</p> <p>CSA Class No. 3211-05</p> <p>NA Certification UL Listed, CSA certified</p> <p>Suitable for Branch circuits, suitable as motor disconnect</p> <p>Degree of Protection IEC: IP65; UL/CSA Type 3R, 12</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	Part no. Article no.	Price See price list	Std. pack
		N/O	N/O	400 V P kW	I <sub>u</sub> A				
<b>On-Off switches without emergency switching off/emergency stop function</b>									
With auxiliary contacts With black thumb-grip and front plate									
		3	1	0	6.5	20	<b>T0-2-15679/E<sup>1)</sup></b> 029387		1 Off 
		3	1	1	13	25			
		3	1	1	15	32			
		3	2	1	6.5	20	<b>T0-3-15683/E<sup>1)</sup></b> 016619		
		3	2	1	13	32	<b>T3-3-15683/E<sup>3)</sup></b> 014377		
		3 + N	1	1	6.5	20	<b>T0-3-8901/E<sup>1)</sup></b> 231938		
		3 + N	1	1	13	32	<b>T3-3-8901/E<sup>3)</sup></b> 231949		
		6	1	1	6.5	20	<b>T0-4-15682/E<sup>1)</sup></b> 010405		
	13				32	<b>T3-4-15682/E<sup>3)</sup></b> 023869			
	22				63	<b>T5B-4-15682/E<sup>4)</sup></b> 207424			
	30				100	<b>T5-4-15682/E</b> 207412			

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, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
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, suitable as motor disconnect IEC: IP30; UL/CSA Type: –
6)	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: –
7)	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

Center mounting Front IP65	Surface mounting IP65	Distribution board - mounting Front IP30	Rear mounting Front IP65								
											
<b>Part no.</b> Article no.	<b>Price</b> See price list	Std. pack	<b>Part no.</b> Article no.	<b>Price</b> See price list	Std. pack	<b>Part no.</b> Article no.	<b>Price</b> See price list	Std. pack	<b>Part no.</b> Article no.	<b>Price</b> See price list	Std. pack
<b>T0-2-15679/EZ<sup>1)</sup></b> 031760		1 Off 	<b>T0-2-15679/11</b> 207094		1 Off	<b>T0-2-15679/IVS<sup>2)</sup></b> 036506		1 Off 	<b>T0-2-15679/Z<sup>1)</sup></b> 041252		1 Off 
			<b>P1-25/12H/HI11</b> 226899								
			<b>P1-32/12H/HI11</b> 227867								
<b>T0-3-15683/EZ<sup>1)</sup></b> 016658			<b>T0-3-15683/11</b> 207118			<b>T0-3-15683/IVS<sup>2)</sup></b> 016722					
			<b>T3-3-15683/12<sup>3)</sup></b> 207182		1 Off 						
<b>T0-3-8901/EZ<sup>1)</sup></b> 231939			<b>T0-3-8901/11</b> 231941		1 Off	<b>T0-3-8901/IVS<sup>2)</sup></b> 231940					
<b>T3-3-8901/EZ<sup>3)</sup></b> 231950			<b>T3-3-8901/12<sup>3)</sup></b> 231951		1 Off 				<b>T3-3-8901/Z<sup>3)</sup></b> 231952		
<b>T0-4-15682/EZ<sup>1)</sup></b> 012778			<b>T0-4-15682/11</b> 207135		1 Off	<b>T0-4-15682/IVS<sup>2)</sup></b> 017524			<b>T0-4-15682/Z<sup>1)</sup></b> 022270		
			<b>T3-4-15682/12<sup>3)</sup></b> 207190		1 Off 				<b>T3-4-15682/Z<sup>3)</sup></b> 030988		
			<b>T5B-4-15682/14<sup>3)</sup></b> 207229		1 Off 				<b>T5B-4-15682/Z<sup>4)</sup></b> 207429		
			<b>T5-4-15682/15</b> 207269		1 Off				<b>T5-4-15682/Z</b> 207417		

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 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect 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; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect 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; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type: –

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	400 V P kW	I <sub>u</sub> A	Part no. Article no.
			N/C			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	<b>T0-1-8200/E-RT<sup>1)</sup></b> 009474	1 Off
				13	32	<b>T3-1-8200/E-RT<sup>3)</sup></b> 017025	
				22	63	<b>T5B-1-8200/E-RT<sup>4)</sup></b> 094280	
				30	100	<b>T5-1-8200/E-RT</b> 097225	1 Off
	2	0	0	6.5	20	<b>T0-1-102/E-RT<sup>1)</sup></b> 009046	1 Off
				13	32	<b>T3-1-102/E-RT<sup>1)</sup></b> 016318	
				22	63	<b>T5B-1-102/E-RT<sup>4)</sup></b> 094470	
	3	0	0	6.5	20	<b>T0-2-1/E-RT<sup>1)</sup></b> 011082	
				13	25	<b>P1-25/E-RT<sup>1)</sup></b> 002388	
				15	32	<b>P1-32/E-RT<sup>1)</sup></b> 003197	
				37	63	<b>P3-63/E-RT<sup>7)</sup></b> 005743	
				50	100	<b>P3-100/E-RT<sup>7)</sup></b> 007189	
	3 + N	0	0	6.5	20	<b>T0-2-8900/E-RT<sup>1)</sup></b> 207399	


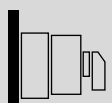
**Information relevant for export to North America**



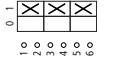
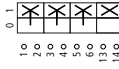
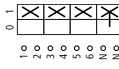
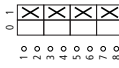
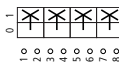
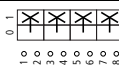
1)	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-05 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type 3R, 12
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, suitable as motor disconnect IEC: IP30; UL/CSA Type: –
6)	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: –
7)	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

Center mounting Front IP65	Surface mounting IP65	Distribution board - mounting Front IP30	Rear mounting Front IP65
Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
Price See price list	Price See price list	Price See price list	Price See price list
Std. pack	Std. pack	Std. pack	Std. pack
	<b>T0-1-8200/11-RT</b> 207075	<b>T0-1-8200/IVS-RT<sup>2)</sup></b> 081956	1 Off
	<b>T0-1-102/11-RT</b> 207062	<b>T0-1-102/IVS-RT<sup>2)</sup></b> 079583	1 Off
	<b>T3-1-102/12-RT<sup>3)</sup></b> 207166		1 Off
	<b>T0-2-1/11-RT</b> 207082	<b>T0-2-1/IVS-RT<sup>2)</sup></b> 084329	1 Off
	<b>P1-25/12-RT<sup>7)</sup></b> 207300	<b>P1-25/IVS-RT<sup>6)</sup></b> 013140	1 Off
	<b>P1-32/12-RT<sup>7)</sup></b> 207321	<b>P1-32/IVS-RT<sup>6)</sup></b> 022632	1 Off
	<b>P3-63/14-RT<sup>7)</sup></b> 207357	<b>P3-63/IVS-RT<sup>6)</sup></b> 045845	1 Off
	<b>P3-100/15-RT<sup>7)</sup></b> 207382	<b>P3-100/IVS-RT<sup>6)</sup></b> 086185	1 Off
	<b>T0-2-8900/11-RT</b> 207110	<b>T0-2-8900/IVS-RT<sup>2)</sup></b> 207404	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 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect 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; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect 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; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking E36332 NLRV 12528 3211-07 UL Listed, CSA certified Branch circuits, suitable as motor disconnect IEC: IP65; UL/CSA Type: –

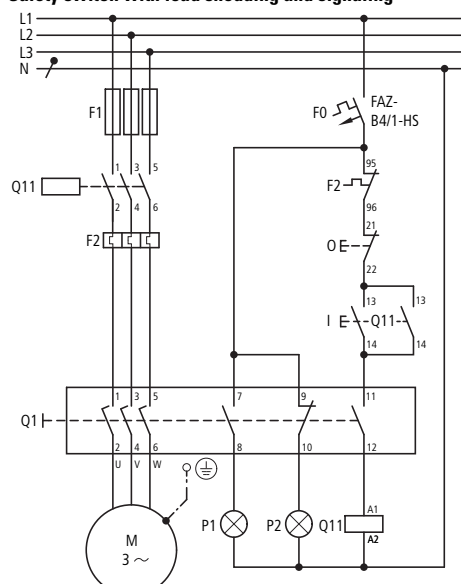
Contact sequence	Front plate no.	Main contacts Pole	Auxiliary contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninterrupted current	As an emergency switching off/ emergency stop device <sup>1)</sup> Surface mounting IP65 <span style="border: 1px solid black; padding: 2px;">totally insulated</span>	Part no. Article no.	Price See price list	Std. pack
	FS 908	N/O	N/O	400 V P kW	I <sub>u</sub> A				

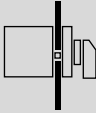










Safety switches with warning label

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

**Notes**  
<sup>1)</sup> 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  
<sup>2)</sup> 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 <sup>2)</sup> Surface mounting IP65 <span style="border: 1px solid black; padding: 2px;">totally insulated</span>	Part no. Article no.	Price See price list	Std. pack	Notes
				

<b>P1-25/I2-SI-SW<sup>3)</sup></b> 207309			1 Off	<p><b>Engineering</b> 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.</p> <p><b>Application</b> 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</p> <p><b>Features</b> • 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 0 (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.</p> <p><b>Selection</b> 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.</p> <p><b>Safety switch with load shedding and signaling</b></p> 
<b>P1-32/I2-SI-SW<sup>3)</sup></b> 207330				
<b>P3-63/I4-SI-SW<sup>3)</sup></b> 207362				
<b>P3-100/I5-SI-SW<sup>3)</sup></b> 207387				
<b>P1-25/I2-SI/HI11-SW<sup>3)</sup></b> 207311				
<b>P1-32/I2-SI/HI11-SW<sup>3)</sup></b> 207332				
<b>P3-63/I4-SI/HI11-SW<sup>3)</sup></b> 207364				
<b>P3-100/I5-SI/HI11-SW<sup>3)</sup></b> 207389				
<b>P1-25/I2-SI/N-SW<sup>3)</sup></b> 207313				
<b>P1-32/I2-SI/N-SW<sup>3)</sup></b> 207334				
<b>P3-63/I4-SI/N-SW<sup>3)</sup></b> 207366				
<b>P3-100/I5-SI/N-SW<sup>3)</sup></b> 207391				
<b>T5B-3-8342/I4-SI-SW<sup>4)</sup></b> 207251				
<b>T5-3-8342/I5-SI-SW<sup>4)</sup></b> 207448				
<b>T5B-4-15682/I4-SI-SW<sup>4)</sup></b> 207255				
<b>T5-4-15682/I5-SI-SW<sup>4)</sup></b> 207286				
<b>T5B-4-8903/I4-SI-SW<sup>4)</sup></b> 207259				
<b>T5-4-8903/I5-SI-SW<sup>4)</sup></b> 207290				

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
		N/O	400 V P kW	I <sub>u</sub> A				
<b>Changeover switches</b>								
With black thumb-grip and front plate without emergency switching off/emergency stop function								
		1	6.5	20		<b>T0-1-8210/E</b> <sup>1)</sup> 012742		1 Off 
			13	32		<b>T3-1-8210/E</b> <sup>1)</sup> 054718		
			22	63		<b>T5B-1-8210/E</b> <sup>5)</sup> 094261		
		1	6.5	20				
		2	6.5	20		<b>T0-2-8211/E</b> <sup>1)</sup> 022234		
			13	32		<b>T3-2-8211/E</b> <sup>1)</sup> 061837		
			22	63		<b>T5B-2-8211/E</b> <sup>5)</sup> 093094		
		3	6.5	20		<b>T0-3-8212/E</b> <sup>1)</sup> 029353		
			13	32		<b>T3-3-8212/E</b> <sup>1)</sup> 068956		
			22	63		<b>T5B-3-8212/E</b> <sup>5)</sup> 092386		
			30	100		<b>T5-3-8212/E</b> 096466		1 Off
		3	55	160		<b>T6-3-8212/E/HI12</b> 214781		1 Off
		3	132	315		<b>T8-3-8212/E/HI12</b> 214782		1 Off

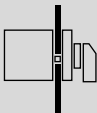
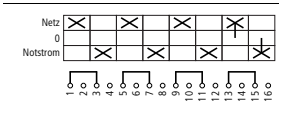

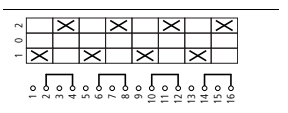


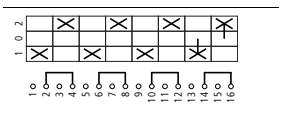


Information relevant for export to North America



1)	2)
Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	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	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: –

Center mounting Front IP65	Surface mounting IP65 <span style="border: 1px solid black; padding: 1px;">totally insulated</span>	Distribution board mounting Front IP30	Rear mounting Front IP65
Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
Price See price list	Price See price list	Price See price list	Price See price list
Std. pack	Std. pack	Std. pack	Std. pack
<b>T0-1-8210/EZ</b> <sup>1)</sup> 048337	<b>T0-1-8210/I1</b> 207076	<b>T0-1-8210/IVS</b> <sup>2)</sup> 074440	<b>T0-1-8210/Z</b> <sup>1)</sup> 019862
<b>T3-1-8210/EZ</b> <sup>1)</sup> 003072	<b>T3-1-8210/I2</b> <sup>3)</sup> 207169		<b>T3-1-8210/Z</b> <sup>1)</sup> 057091
	<b>T5B-1-8210/I4</b> <sup>4)</sup> 207432		<b>T5B-1-8210/Z</b> <sup>5)</sup> 094258
<b>T0-1-8214/EZ</b> <sup>1)</sup> 076815			<b>T0-1-8214/Z</b> <sup>1)</sup> 050720
<b>T0-2-8211/EZ</b> <sup>1)</sup> 053083	<b>T0-2-8211/I1</b> 207102	<b>T0-2-8211/IVS</b> <sup>2)</sup> 076813	<b>T0-2-8211/Z</b> <sup>1)</sup> 029354
<b>T3-2-8211/EZ</b> <sup>1)</sup> 003075	<b>T3-2-8211/I2</b> <sup>3)</sup> 207178		<b>T3-2-8211/Z</b> <sup>1)</sup> 064210
	<b>T5B-2-8211/I4</b> <sup>4)</sup> 207220		<b>T5B-2-8211/Z</b> <sup>5)</sup> 093082
<b>T0-3-8212/EZ</b> <sup>1)</sup> 057829	<b>T0-3-8212/I1</b> 207123	<b>T0-3-8212/IVS</b> <sup>2)</sup> 079186	<b>T0-3-8212/Z</b> <sup>1)</sup> 036473
<b>T3-3-8212/EZ</b> <sup>1)</sup> 003080	<b>T3-3-8212/I2</b> <sup>3)</sup> 207183		<b>T3-3-8212/Z</b> <sup>1)</sup> 071329
	<b>T5B-3-8212/I4</b> <sup>4)</sup> 207223		<b>T5B-3-8212/Z</b> <sup>5)</sup> 092383
	<b>T5-3-8212/I5</b> 207266		<b>T5-3-8212/Z</b> 096464


















3)	4)	5)
Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	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	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: –	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

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
		N/O	400 V P kW	I <sub>u</sub> A				
<b>Changeover switches</b>								
With black thumb-grip and front plate Without emergency switching off/emergency stop function								
	FS 161629	4	13	32		<b>T3-4-8902/E</b> <sup>1)</sup> 215222		1 Off 
			22	63		<b>T5B-4-8902/E</b> <sup>5)</sup> 207430		
			30	100		<b>T5-4-8902/E</b> 207418		
	FS 684	4	6.5	20		<b>T0-4-8213/E</b> <sup>1)</sup> 031726		1 Off 
			13	32		<b>T3-4-8213/E</b> <sup>1)</sup> 076075		1 Off 
			22	63		<b>T5B-4-8213/E</b> <sup>5)</sup> 092112		
			30	100		<b>T5-4-8213/E</b> 096014		
	FS 953	4	6.5	20		<b>T0-4-8294/E</b> <sup>1)</sup> 010371		1 Off 
			13	32		<b>T3-4-8294/E</b> <sup>1)</sup> 002513		1 Off 
			22	63		<b>T5B-4-8294/E</b> <sup>5)</sup> 092084		
			30	100		<b>T5-4-8294/E</b> 095986		1 Off

Information relevant for export to North America



1)	2)
Product Standards UL File No. UL CCN CSA File No. CSA Class No. NA Certification Suitable for Degree of Protection	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	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: –

Center mounting Front IP65			Surface mounting IP65 <span style="border: 1px solid black; padding: 2px;">Totally insulated</span>			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	Part no. Article no.	Price See price list	Std. pack
<b>T3-4-8902/EZ</b> <sup>1)</sup> 215223		1 Off 	<b>T3-4-8902/I2</b> <sup>3)</sup> 215224		1 Off 				<b>T3-4-8902/Z</b> <sup>1)</sup> 215225		1 Off 
			<b>T5B-4-8902/I4</b> <sup>4)</sup> 207237		1 Off 				<b>T5B-4-8902/Z</b> <sup>5)</sup> 207431		1 Off 
			<b>T5-4-8902/I5</b> 207214		1 Off				<b>T5-4-8902/Z</b> 207419		1 Off
<b>T0-4-8213/EZ</b> <sup>1)</sup> 062575		1 Off 	<b>T0-4-8213/I1</b> 207136		1 Off	<b>T0-4-8213/IVS</b> <sup>2)</sup> 081559		1 Off 	<b>T0-4-8213/Z</b> <sup>1)</sup> 043592		1 Off 
<b>T3-4-8213/EZ</b> <sup>1)</sup> 003079		1 Off 	<b>T3-4-8213/I2</b> <sup>3)</sup> 207191		1 Off 				<b>T3-4-8213/Z</b> <sup>1)</sup> 078448		
			<b>T5B-4-8213/I4</b> <sup>4)</sup> 207230		1 Off 				<b>T5B-4-8213/Z</b> <sup>5)</sup> 092109		
			<b>T5-4-8213/I5</b> 207270		1 Off				<b>T5-4-8213/Z</b> 096012		1 Off
<b>T0-4-8294/EZ</b> <sup>1)</sup> 072069		1 Off 	<b>T0-4-8294/I1</b> 207138		1 Off	<b>T0-4-8294/IVS</b> <sup>2)</sup> 043594		1 Off 			
			<b>T3-4-8294/I2</b> <sup>3)</sup> 207193		1 Off 				<b>T3-4-8294/Z</b> <sup>1)</sup> 004886		1 Off 
			<b>T5B-4-8294/I4</b> <sup>4)</sup> 207232		1 Off 				<b>T5B-4-8294/Z</b> <sup>5)</sup> 092081		1 Off 
			<b>T5-4-8294/I5</b> 207433		1 Off				<b>T5-4-8294/Z</b> 095984		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: –

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

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	Part no. Article no.	Price See price list	Std. pack
		N/O	400 V P kW	I <sub>u</sub> A				

**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

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	Part no. Article no.	Price See price list	Std. pack
	FS 4011	1	6.5	20		<b>T0-1-8214/E<sup>2)</sup></b> 019863		1 Off
		1	13	32		<b>T3-1-8214/E<sup>2)</sup></b> 009632		
		2	6.5	20		<b>T0-2-8215/E<sup>2)</sup></b> 022236		1 Off
		2	13	32		<b>T3-2-8215/E<sup>2)</sup></b> 016751		1 Off
		3	6.5	20		<b>T0-3-8216/E<sup>2)</sup></b> 024609		1 Off
		3	13	32		<b>T3-3-8216/E<sup>2)</sup></b> 023870		1 Off

**Changeover switches without 0 position**

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

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	Part no. Article no.	Price See price list	Std. pack
	FS 943	1	6.5	20		<b>T0-1-8220/E<sup>2)</sup></b> 031728		1 Off
		2	6.5	20		<b>T0-2-8221/E<sup>2)</sup></b> 038847		1 Off
		2	13	32		<b>T3-2-8221/E<sup>2)</sup></b> 045227		1 Off
		2	22	63		<b>T5B-2-8221/E<sup>4)</sup></b> 093047		1 Off
		3	6.5	20		<b>T0-3-8222/E<sup>2)</sup></b> 048339		1 Off
		3	13	32		<b>T3-3-8222/E<sup>2)</sup></b> 052346		1 Off
		3	22	63		<b>T5B-3-8222/E<sup>4)</sup></b> 092378		1 Off
		4	6.5	20		<b>T0-4-8223/E<sup>2)</sup></b> 050712		1 Off
		4	13	32		<b>T3-4-8223/E<sup>2)</sup></b> 059465		1 Off
		4	22	63		<b>T5B-4-8223/E<sup>4)</sup></b> 092108		1 Off
		5	6.5	20		<b>T0-5-8369/E<sup>2)</sup></b> 060204		1 Off
		5	13	32		<b>T3-5-8369/E<sup>2)</sup></b> 066584		1 Off
		6	6.5	20		<b>T0-6-8370/E<sup>2)</sup></b> 062577		1 Off
		6	13	32		<b>T3-6-8370/E<sup>2)</sup></b> 073703		1 Off
		8	6.5	20		<b>T0-8-8372/E<sup>2)</sup></b> 064950		1 Off
		8	13	32		<b>T3-8-8372/E<sup>2)</sup></b> 080822		1 Off

**Information relevant for export to North America**



1)		2)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	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	NLRV
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 for	Branch circuits
Degree of Protection	IEC: IP30; UL/CSA Type: –	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Center mounting Front IP65	Surface mounting IP65	Distribution board mounting Front IP30	Rear mounting Front IP65
Part no. Article no.	Part no. Article no.	Part no. Article no.	Part no. Article no.
Price See price list	Price See price list	Price See price list	Price See price list
Std. pack	Std. pack	Std. pack	Std. pack

<b>T0-1-8214/EZ</b> 076815		<b>T0-1-8214/11</b> 207077	1 Off	<b>T0-1-8214/IVS<sup>1)</sup></b> 045967	1 Off	<b>T0-1-8214/Z</b> 050720	
<b>T0-2-8215/EZ<sup>2)</sup></b> 081561	1 Off	<b>T0-2-8215/11</b> 207103	1 Off	<b>T0-2-8215/IVS<sup>1)</sup></b> 048340	1 Off		
<b>T0-3-8216/EZ<sup>2)</sup></b> 086307	1 Off	<b>T3-2-8215/12<sup>3)</sup></b> 207179	1 Off	<b>T0-3-8216/IVS<sup>1)</sup></b> 050713	1 Off	<b>T0-3-8216/Z<sup>2)</sup></b> 055466	1 Off
		<b>T3-3-8216/12<sup>3)</sup></b> 207184	1 Off				
<b>T0-1-8220/EZ<sup>2)</sup></b> 095799	1 Off	<b>T0-1-8220/11</b> 207078	1 Off	<b>T0-1-8220/IVS<sup>1)</sup></b> 055459	1 Off	<b>T0-1-8220/Z<sup>2)</sup></b> 086312	1 Off
<b>T0-2-8221/EZ<sup>2)</sup></b> 010372	1 Off	<b>T0-2-8221/11</b> 207104	1 Off	<b>T0-2-8221/IVS<sup>1)</sup></b> 057832	1 Off	<b>T0-2-8221/Z<sup>2)</sup></b> 074450	1 Off
<b>T3-2-8221/EZ<sup>2)</sup></b> 001025	1 Off	<b>T3-2-8221/12<sup>3)</sup></b> 207180	1 Off			<b>T3-2-8221/Z<sup>2)</sup></b> 047600	1 Off
		<b>T5B-2-8221/14<sup>5)</sup></b> 207221	1 Off			<b>T5B-2-8221/Z<sup>4)</sup></b> 093044	1 Off
<b>T0-3-8222/EZ<sup>2)</sup></b> 015118	1 Off	<b>T0-3-8222/11</b> 207124	1 Off	<b>T0-3-8222/IVS<sup>1)</sup></b> 060205	1 Off	<b>T0-3-8222/Z<sup>2)</sup></b> 088686	1 Off
<b>T3-3-8222/EZ<sup>2)</sup></b> 001069	1 Off	<b>T3-3-8222/12<sup>3)</sup></b> 207185	1 Off			<b>T3-3-8222/Z<sup>2)</sup></b> 057092	1 Off
		<b>T5B-3-8222/14<sup>5)</sup></b> 207224	1 Off			<b>T5B-3-8222/Z<sup>4)</sup></b> 092375	1 Off
<b>T0-4-8223/EZ<sup>2)</sup></b> 019864	1 Off	<b>T0-4-8223/11</b> 207137	1 Off	<b>T0-4-8223/IVS<sup>1)</sup></b> 062578	1 Off	<b>T0-4-8223/Z<sup>2)</sup></b> 086315	1 Off
		<b>T3-4-8223/12<sup>3)</sup></b> 207192	1 Off			<b>T3-4-8223/Z<sup>2)</sup></b> 061838	1 Off
		<b>T5B-4-8223/14<sup>5)</sup></b> 207231	1 Off			<b>T5B-4-8223/Z<sup>4)</sup></b> 092105	1 Off
<b>T0-5-8369/EZ<sup>2)</sup></b> 024610	1 Off			<b>T0-5-8369/IVS<sup>1)</sup></b> 064951	1 Off		
		<b>T3-5-8369/12<sup>3)</sup></b> 207536	1 Off			<b>T3-5-8369/Z<sup>2)</sup></b> 068957	1 Off
<b>T0-6-8370/EZ<sup>2)</sup></b> 029356	1 Off			<b>T0-6-8370/IVS<sup>1)</sup></b> 067324	1 Off	<b>T0-6-8370/Z<sup>2)</sup></b> 010380	1 Off
<b>T3-6-8370/EZ<sup>2)</sup></b> 004506	1 Off						
<b>T0-8-8372/EZ<sup>2)</sup></b> 034102	1 Off			<b>T0-8-8372/IVS<sup>1)</sup></b> 069697	1 Off	<b>T0-8-8372/Z<sup>2)</sup></b> 012753	1 Off
						<b>T3-8-8372/Z<sup>2)</sup></b> 083195	1 Off

3)		4)		5)	
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; IEC/EN 60947-3; CE marking	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	NLRV7	UL CCN	NLRV7
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 for	Branch circuits	Suitable for	Branch circuits
Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12	Degree of Protection	IEC: IP65; UL/CSA Type 1	Degree of Protection	IEC: IP65; UL/CSA Type: –

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
<b>Reversing switch with 0 (Off) position</b>								
With black thumb-grip and front plate Without emergency switching off/emergency stop function Without momentary								
	FS 684	2	6.5	20		<b>T0-2-8400/E</b> <sup>1)</sup> 053079		1 Off
			13	32		<b>T3-2-8400/E</b> <sup>1)</sup> 073695		
			22	63		<b>T5B-2-8400/E</b> <sup>2)</sup> 092918		
		3	6.5	20		<b>T0-3-8401/E</b> <sup>1)</sup> 091047		
			13	32		<b>T3-3-8401/E</b> <sup>1)</sup> 030992		
			22	63		<b>T5B-3-8401/E</b> <sup>2)</sup> 092296		
With momentary from both directions to 0								
	FS 4011	3	6.5	20		<b>T0-3-8228/E</b> <sup>1)</sup> 015112		1 Off
			13	32		<b>T3-3-8228/E</b> <sup>1)</sup> 002538		
			22	63		<b>T5B-3-8228/E</b> <sup>2)</sup> 092374		
<b>Star-delta switches</b>								
With black thumb-grip and front plate Without emergency switching off/emergency stop function								
	FS 635	3	6.5	20		<b>T0-4-8410/E</b> <sup>1)</sup> 024604		1 Off
			13	32		<b>T3-4-8410/E</b> <sup>1)</sup> 009657		
			22	63		<b>T5B-4-8410/E</b> <sup>1)</sup> 092052		
<b>Reversing star-delta switches</b>								
With black thumb-grip and front plate Without emergency switching off/emergency stop function Two-way operating direction								
	FS 638	3	6.5	20		<b>T0-5-15876/E</b> <sup>1)</sup> 000893		1 Off
			13	32		<b>T3-5-15876/E</b> <sup>1)</sup> 016776		
	FS 4017		22	63		<b>T5B-5-15876/E</b> <sup>2)</sup> 214785		

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

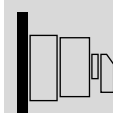
Center mounting Front IP65	Surface mounting IP65	Distribution board mounting Front IP30	Rear mounting Front IP65
<b>Reversing switch with 0 (Off) position</b>			
With black thumb-grip and front plate Without emergency switching off/emergency stop function Without momentary			
<b>T0-2-8400/EZ</b> <sup>1)</sup> 055452	<b>T0-2-8400/11</b> 207111	<b>T0-2-8400/IVS</b> <sup>4)</sup> 060198	<b>T0-2-8400/Z</b> <sup>1)</sup> 062571
<b>T3-2-8400/EZ</b> <sup>1)</sup> 000687	<b>T3-2-8400/12</b> <sup>3)</sup> 207181		<b>T3-2-8400/Z</b> <sup>1)</sup> 095060
	<b>T5B-2-8400/14</b> <sup>2)</sup> 207222		
<b>T0-3-8401/EZ</b> <sup>1)</sup> 093420	<b>T0-3-8401/11</b> 207132	<b>T0-3-8401/IVS</b> <sup>4)</sup> 098166	<b>T0-3-8401/Z</b> <sup>1)</sup> 010366
<b>T3-3-8401/EZ</b> <sup>1)</sup> 000694	<b>T3-3-8401/12</b> <sup>3)</sup> 207188		<b>T3-3-8401/Z</b> <sup>1)</sup> 035739
	<b>T5B-3-8401/14</b> <sup>2)</sup> 207227		<b>T5B-3-8401/Z</b> <sup>2)</sup> 092293
<b>T0-3-8228/EZ</b> <sup>1)</sup> 048334	<b>T0-3-8228/11</b> 207125	<b>T0-3-8228/IVS</b> <sup>4)</sup> 062572	<b>T0-3-8228/Z</b> <sup>1)</sup> 074437
<b>T3-3-8228/EZ</b> <sup>1)</sup> 000695	<b>T3-3-8228/12</b> <sup>3)</sup> 207186		<b>T3-3-8228/Z</b> <sup>1)</sup> 004911
	<b>T5B-3-8228/14</b> <sup>2)</sup> 207225		
<b>T0-4-8410/EZ</b> <sup>1)</sup> 053080	<b>T0-4-8410/11</b> 207140	<b>T0-4-8410/IVS</b> <sup>5)</sup> 064945	<b>T0-4-8410/Z</b> <sup>1)</sup> 083929
<b>T3-4-8410/EZ</b> <sup>1)</sup> 000721	<b>T3-4-8410/12</b> <sup>3)</sup> 207195		<b>T3-4-8410/Z</b> <sup>1)</sup> 012030
	<b>T5B-4-8410/14</b> <sup>1)</sup> 207234		<b>T5B-4-8410/Z</b> <sup>1)</sup> 092049
<b>T0-5-15876/EZ</b> <sup>1)</sup> 000900		<b>T0-5-15876/IVS</b> <sup>4)</sup> 000902	<b>T0-5-15876/Z</b> <sup>1)</sup> 000942
<b>T3-5-15876/EZ</b> <sup>1)</sup> 000797	<b>T3-5-15876/12</b> <sup>3)</sup> 207537		<b>T3-5-15876/Z</b> <sup>1)</sup> 019149
			<b>T5B-5-15876/Z</b> <sup>2)</sup> 214786

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 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

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
	Suitable for	Branch circuits, suitable as motor disconnect
	Degree of Protection	IEC: IP30; UL/CSA Type: –

5)	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: –

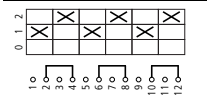




Contact sequence	Front plate no.	Main contacts Pole	Max. motor rating: AC-23A 400/415 V 50/60 Hz	Rated uninterrupted current	Flush mounting Front IP65	Part no. Article no.	Price See price list	Std. pack
		N/0	400 V P kW	I <sub>u</sub> A				

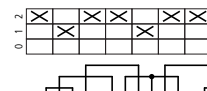


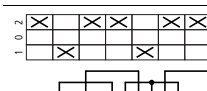


**Multi-speed switches**

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	<b>T0-3-8451/E<sup>2)</sup></b> 038849	1 Off 
			13	32	<b>T3-3-8451/E<sup>2)</sup></b> 028641	
			22	63	<b>T5B-3-8451/E<sup>4)</sup></b> 092288	

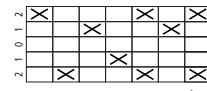




2-speed, 2 directions, for one tapped winding

		3	6.5	20	<b>T0-4-8440/E<sup>2)</sup></b> 041222	1 Off 
			13	32	<b>T3-4-8440/E<sup>2)</sup></b> 035760	
			22	63	<b>T5B-4-8440/E<sup>4)</sup></b> 092032	
		3	6.5	20	<b>T0-4-8441/E<sup>2)</sup></b> 043595	1 Off 
			13	32	<b>T3-4-8441/E<sup>2)</sup></b> 042879	
			22	63	<b>T5B-4-8441/E<sup>4)</sup></b> 092028	

**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	<b>T0-6-15866/E<sup>2)</sup></b> 055460	1 Off 
		-	13	32	<b>T3-6-15866/E<sup>2)</sup></b> 054744	
		-	22	63	<b>T5B-7-15866/E<sup>4)</sup></b> 214788	

**Information relevant for export to North America**

1)		2)	
Product Standards	UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking	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: IP30; UL/CSA Type: -	Degree of Protection	IEC: IP65; UL/CSA Type 3R, 12

Center mounting Front IP65			Surface mounting IP65 <small>totally insulated</small>			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	Part no. Article no.	Price See price list	Std. pack

<b>T0-3-8451/EZ<sup>2)</sup></b> 083936	1 Off 		<b>T0-3-8451/11</b> 207133	1 Off 		<b>T0-3-8451/IVS<sup>1)</sup></b> 026985	1 Off 		<b>T0-3-8451/Z<sup>2)</sup></b> 043596	1 Off 	
<b>T3-3-8451/EZ<sup>2)</sup></b> 000956	1 Off 		<b>T3-3-8451/12<sup>3)</sup></b> 207189	1 Off 					<b>T3-3-8451/Z<sup>2)</sup></b> 031014	1 Off 	
			<b>T5B-3-8451/14<sup>4)</sup></b> 207228	1 Off 							
<b>T0-4-8440/EZ<sup>2)</sup></b> 088682	1 Off 		<b>T0-4-8440/11</b> 207141	1 Off 		<b>T0-4-8440/IVS<sup>1)</sup></b> 029358	1 Off 		<b>T0-4-8440/Z<sup>2)</sup></b> 048342	1 Off 	
<b>T3-4-8440/EZ<sup>2)</sup></b> 000959			<b>T3-4-8440/12<sup>3)</sup></b> 207196	1 Off 					<b>T3-4-8440/Z<sup>2)</sup></b> 038133		
			<b>T5B-4-8440/14<sup>4)</sup></b> 207235	1 Off 					<b>T5B-4-8440/Z<sup>4)</sup></b> 092029		
<b>T0-4-8441/EZ<sup>2)</sup></b> 093428			<b>T0-4-8441/11</b> 207142	1 Off 		<b>T0-4-8441/IVS<sup>1)</sup></b> 031731	1 Off 		<b>T0-4-8441/Z<sup>2)</sup></b> 053088		
			<b>T3-4-8441/12<sup>3)</sup></b> 207197	1 Off 					<b>T3-4-8441/Z<sup>2)</sup></b> 045252		
			<b>T5B-4-8441/14<sup>4)</sup></b> 207236	1 Off 					<b>T5B-4-8441/Z<sup>4)</sup></b> 092025		
<b>T0-6-15866/EZ<sup>2)</sup></b> 012747	1 Off 					<b>T0-6-15866/IVS<sup>1)</sup></b> 036477	1 Off 		<b>T0-6-15866/Z<sup>2)</sup></b> 067326	1 Off 	
									<b>T3-6-15866/Z<sup>2)</sup></b> 057117	1 Off 	

3)		4)	
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; 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

Contact sequence	Front plate no.	Main contacts	Flush mounting <sup>1)</sup> Front IP65			Center mounting <sup>1)</sup> Front IP65		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>Step switches</b>								
With black thumb-grip and front plate One contact closed per step Without overlap								
With 0 (Off) position								
		1	<b>T0-1-8240/E</b> 034105		1 Off	<b>T0-1-8240/EZ</b> 043597		1 Off
		1	<b>T0-2-8241/E</b> 050716			<b>T0-2-8241/EZ</b> 053089		
		1	<b>T0-2-8242/E</b> 067327			<b>T0-2-8242/EZ</b> 069700		
		1	<b>T0-3-8243/E</b> 081565			<b>T0-3-8243/EZ</b> 083938		
		1	<b>T0-3-8244/E</b> 095803			<b>T0-3-8244/EZ</b> 098176		
		3	<b>T0-3-8280/E</b> 034106			<b>T0-3-8280/EZ</b> 036479		
		3	<b>T0-5-8281/E</b> 048344			<b>T0-5-8281/EZ</b> 050717		
		3	<b>T0-6-8282/E</b> 062582			<b>T0-6-8282/EZ</b> 064955		

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

Surface mounting IP65 <span style="border: 1px solid black; padding: 2px;">totally insulated</span>			Distribution board mounting <sup>2)</sup> Front IP30			Rear mounting <sup>2)</sup> 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
<b>T0-1-8240/11</b> 207079		1 Off	<b>T0-1-8240/IVS</b> 027076		1 Off	<b>T0-1-8240/Z</b> 060208		1 Off
<b>T0-2-8241/11</b> 207107			<b>T0-2-8241/IVS</b> 057835			<b>T0-2-8241/Z</b> 062581		
<b>T0-2-8242/11</b> 207108			<b>T0-2-8242/IVS</b> 074446			<b>T0-2-8242/Z</b> 076819		
<b>T0-3-8243/11</b> 207128			<b>T0-3-8243/IVS</b> 088684			<b>T0-3-8243/Z</b> 091057		
<b>T0-3-8244/11</b> 207129			<b>T0-3-8244/IVS</b> 012749			<b>T0-3-8244/Z</b> 015122		
<b>T0-3-8280/11</b> 207130			<b>T0-3-8280/IVS</b> 041225			<b>T0-3-8280/Z</b> 043598		
			<b>T0-5-8281/IVS</b> 055463			<b>T0-5-8281/Z</b> 057836		
			<b>T0-6-8282/IVS</b> 069701			<b>T0-6-8282/Z</b> 072074		

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: –

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

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

without 0 (Off) position								
		1	<b>T0-1-8220/E</b> 031728		<b>T0-1-8220/EZ</b> 095799			
		1	<b>T0-2-8230/E</b> 088685		<b>T0-2-8230/EZ</b> 091058			
		1	<b>T0-2-8231/E</b> 012750		<b>T0-2-8231/EZ</b> 015123			
		1	<b>T0-3-8232/E</b> 026988		<b>T0-3-8232/EZ</b> 029361			
		1	<b>T0-3-8233/E</b> 041226		<b>T0-3-8233/EZ</b> 043599			
		2	<b>T0-4-8251/E</b> 013971		<b>T0-4-8251/EZ</b> 013972			
		3	<b>T0-3-8222/E</b> 048339		<b>T0-3-8222/EZ</b> 015118			
		3	<b>T0-5-8270/E</b> 091059		<b>T0-5-8270/EZ</b> 093432			
		3	<b>T0-6-8271/E</b> 015124		<b>T0-6-8271/EZ</b> 017497			

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

Surface mounting IP65	Distribution board mounting <sup>2)</sup> Front IP30	Rear mounting <sup>1)</sup> Front IP65	Surface mounting IP65		Std. pack	Distribution board mounting <sup>2)</sup> Front IP30		Std. pack	Rear mounting <sup>1)</sup> Front IP65		Std. pack
			Part no. Article no.	Price See price list		Part no. Article no.	Price See price list		Part no. Article no.	Price See price list	

			<b>T0-1-8220/I1</b> 207078		<b>T0-1-8220/IVS</b> 055459		<b>T0-1-8220/Z</b> 086312				
			<b>T0-2-8230/I1</b> 207105		<b>T0-2-8230/IVS</b> 095804		<b>T0-2-8230/Z</b> 098177				
			<b>T0-2-8231/I1</b> 207106		<b>T0-2-8231/IVS</b> 019869		<b>T0-2-8231/Z</b> 022242				
			<b>T0-3-8232/I1</b> 207126		<b>T0-3-8232/IVS</b> 034107		<b>T0-3-8232/Z</b> 036480				
			<b>T0-3-8233/I1</b> 207127		<b>T0-3-8233/IVS</b> 048345		<b>T0-3-8233/Z</b> 050718				
			<b>T0-4-8251/I1</b> 218984		<b>T0-4-8251/IVS</b> 013974		<b>T0-4-8251/Z</b> 013976				
			<b>T0-3-8222/I1</b> 207124		<b>T0-3-8222/IVS</b> 060205						
					<b>T0-5-8270/IVS</b> 098178		<b>T0-5-8270/Z</b> 010378				
					<b>T0-6-8271/IVS</b> 022243		<b>T0-6-8271/Z</b> 024616				

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: –

Contact sequence	Front plate no.	Main contacts	Flush mounting <sup>1)</sup>			Center mounting <sup>2)</sup>		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
			Front IP65			Front IP65		
		Pole N/O						
<b>On-Off switches</b>								
With black thumb-grip and front plate								
		1	<b>T0-1-15401/E</b> 038854		1 Off	<b>T0-1-15401/EZ</b> 041227		1 Off
		2	<b>T0-1-15402/E</b> 053092			<b>T0-1-15402/EZ</b> 055465		
		3	<b>T0-2-15403/E</b> 067330			<b>T0-2-15403/EZ</b> 069703		
		4	<b>T0-2-15404/E</b> 081568			<b>T0-2-15404/EZ</b> 083941		

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

Surface mounting			Distribution board mounting <sup>3)</sup>			Rear mounting		
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
IP65			Front IP30			Front IP65		
<b>T0-1-15401/I1</b> 207067		1 Off	<b>T0-1-15401/IVS</b> 045973		1 Off			
<b>T0-1-15402/I1</b> 207068		1 Off	<b>T0-1-15402/IVS</b> 060211					
			<b>T0-2-15403/IVS</b> 074449					

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: –

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: –

Contact sequence	Front plate no.	Main contacts	Flush mounting <sup>1)</sup> Front IP65			Center mounting <sup>1)</sup> Front IP65		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>Changeover switches</b>								
With black thumb-grip and front plate								
	FS 429	1	<b>T0-1-15421/E</b> 095806		1 Off	<b>T0-1-15421/EZ</b> 098179		1 Off
		2	<b>T0-2-15422/E</b> 019871			<b>T0-2-15422/EZ</b> 022244		
		3	<b>T0-3-15423/E</b> 034109			<b>T0-3-15423/EZ</b> 036482		
<b>Manual/Auto switches</b>								
With 0 (Off) position								
	FS 1401	1	<b>T0-1-15431/E</b> 019872		1 Off	<b>T0-1-15431/EZ</b> 022245		1 Off
		2	<b>T0-2-15432/E</b> 034110			<b>T0-2-15432/EZ</b> 036483		
		3	<b>T0-3-15433/E</b> 048348			<b>T0-3-15433/EZ</b> 050721		
With momentary from HAND								
	FS 1414000	1	<b>T0-1-15434/E</b> 062586		1 Off	<b>T0-1-15434/EZ</b> 018053		1 Off
		2	<b>T0-2-15435/E</b> 003191		1 Off	<b>T0-2-15435/EZ</b> 003192		1 Off
With momentary from START								
	FS 1413890	2	<b>T0-2-15907/E</b> 066931		1 Off	<b>T0-2-15907/EZ</b> 069304		1 Off
Without 0 (Off) position								
	FS 19334	1	<b>T0-1-15451/E</b> 076824		1 Off	<b>T0-1-15451/EZ</b> 079197		1 Off
		2	<b>T0-2-15452/E</b> 091062			<b>T0-2-15452/EZ</b> 093435		
		3	<b>T0-3-15453/E</b> 015127			<b>T0-3-15453/EZ</b> 017500		

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

Surface mounting IP65	Distribution board mounting <sup>2)</sup> Front IP30	Rear mounting <sup>1)</sup> Front IP65	Totally insulated		
			Part no. Article no.	Price See price list	Std. pack
<b>T0-1-15421/I1</b> 207069	<b>T0-1-15421/IVS</b> 012752	<b>T0-1-15421/Z</b> 015125			
<b>T0-2-15422/I1</b> 207090	<b>T0-2-15422/IVS</b> 026990	<b>T0-2-15422/Z</b> 029363			
<b>T0-3-15423/I1</b> 207114	<b>T0-3-15423/IVS</b> 041228	<b>T0-3-15423/Z</b> 043601			
<b>T0-1-15431/I1</b> 207070	<b>T0-1-15431/IVS</b> 026991	<b>T0-1-15431/Z</b> 029364			
<b>T0-2-15432/I1</b> 207091	<b>T0-2-15432/IVS</b> 041229	<b>T0-2-15432/Z</b> 043602			
<b>T0-3-15433/I1</b> 207115	<b>T0-3-15433/IVS</b> 055467	<b>T0-3-15433/Z</b> 057840			
<b>T0-1-15434/I1</b> 207071	<b>T0-1-15434/IVS</b> 069705	<b>T0-1-15434/Z</b> 072078			
<b>T0-2-15435/I1</b> 218971	<b>T0-2-15435/IVS</b> 003195	<b>T0-2-15435/Z</b> 003196			
<b>T0-2-15907/I1</b> 207095	<b>T0-2-15907/IVS</b> 076423	<b>T0-2-15907/Z</b> 078796			
<b>T0-1-15451/I1</b> 207072	<b>T0-1-15451/IVS</b> 083943	<b>T0-1-15451/Z</b> 086316			
<b>T0-2-15452/I1</b> 207092	<b>T0-2-15452/IVS</b> 098181	<b>T0-2-15452/Z</b> 010381			
<b>T0-3-15453/I1</b> 207116	<b>T0-3-15453/IVS</b> 022246	<b>T0-3-15453/Z</b> 024619			

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: –

Contact sequence	Front plate no.	Main contacts	Flush mounting Front IP65			Center mounting Front IP65		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>On switch (N/O)</b>								
With black thumb-grip and front plate Momentary from position 1								
	FS 4721	1	<b>T0-1-15321/E</b> 086317		1 Off	<b>T0-1-15321/EZ</b> 088690		1 Off
		2	<b>T0-1-15322/E</b> 010382			<b>T0-1-15322/EZ</b> 012755		
		3	<b>T0-2-15323/E</b> 024620			<b>T0-2-15323/EZ</b> 026993		
	FS 456		<b>T0-1-15366/E</b> 081572			<b>T0-1-15366/EZ</b> 083945		
<b>ON-OFF momentary switches</b>								
With black thumb-grip and front plate Momentary from START position								
	FS 147767	1	<b>T0-1-15511/E</b> 019875		1 Off	<b>T0-1-15511/EZ</b> 022248		1 Off
		2	<b>T0-2-15512/E</b> 034113			<b>T0-2-15512/EZ</b> 036486		
		3	<b>T0-3-15513/E</b> 048351			<b>T0-3-15513/EZ</b> 050724		
	FS 140660	see K 115	<b>T0-2-8177/E</b> 015130			<b>T0-2-8177/EZ</b> 017503		

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

Surface mounting IP65	Distribution board mounting Front IP30	Rear mounting Front IP65	Surface mounting IP65			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
<b>On switch (N/O)</b>											
With black thumb-grip and front plate Momentary from position 1											
			<b>T0-1-15321/I1</b> 207064		1 Off	<b>T0-1-15321/IVS</b> 093436		1 Off	<b>T0-1-15321/Z</b> 095809		1 Off
			<b>T0-1-15322/I1</b> 207065			<b>T0-1-15322/IVS</b> 017501					
			<b>T0-2-15323/I1</b> 207087			<b>T0-2-15323/IVS</b> 031739					
<b>ON-OFF momentary switches</b>											
With black thumb-grip and front plate Momentary from START position											
			<b>T0-1-15511/I1</b> 207073		1 Off	<b>T0-1-15511/IVS</b> 026994		1 Off	<b>T0-1-15511/Z</b> 029367		1 Off
			<b>T0-2-15512/I1</b> 207093						<b>T0-2-15512/Z</b> 043605		1 Off
			<b>T0-3-15513/I1</b> 207117								
	<b>T0-2-8177/I1</b> 207101				<b>T0-2-8177/IVS</b> 022249		1 Off	<b>T0-2-8177/Z</b> 024622		1 Off	

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: –

Contact sequence	Front plate no.	Main contacts	Flush mounting <sup>1)</sup> Front IP65			Center mounting <sup>1)</sup> Front IP65		
			Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>Universal control switches</b> 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								
			<b>T0-3-15391/E</b> 029365		1 Off	<b>T0-3-15391/EZ</b> 031738		1 Off
			<b>T0-3-15394/E</b> 072079		1 Off	<b>T0-3-15394/EZ</b> 074452		1 Off
<b>Coding switches</b> With black thumb-grip and front plate With complete rotation in both directions.								
		Binary BCD code	<b>T0-4-15602/E</b> 029368		1 Off	<b>T0-4-15602/EZ</b> 031741		1 Off
<b>Series switches</b> With black thumb-grip and front plate With 0 (Off) position (heater switches)								
		1	<b>T0-1-91/E</b> 072082		1 Off	<b>T0-1-91/EZ</b> 074455		1 Off

Information relevant for export to North America



1)  
 Product Standards  
 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

Surface mounting IP65 <span style="border: 1px solid black; padding: 2px;">totally insulated</span>		Distribution board mounting <sup>2)</sup> Front IP30		Rear mounting <sup>1)</sup> Front IP65	
Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
<b>T0-3-15391/I1</b> 207112		1 Off	<b>T0-3-15391/IVS</b> 036484		1 Off
<b>T0-3-15394/I1</b> 207113		1 Off	<b>T0-3-15394/IVS</b> 079198		1 Off
<b>T0-4-15602/I1</b> 207134		1 Off	<b>T0-4-15602/IVS</b> 036487		1 Off
<b>T0-1-91/I1</b> 207080		1 Off	<b>T0-1-91/IVS</b> 079201		1 Off
					<b>T0-3-15394/Z</b> 081571
					<b>T0-4-15602/Z</b> 038860
					<b>T0-1-91/Z</b> 081574

2)  
 Product Standards  
 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: –

Contact sequence	Front plate no.	Pole	Main contacts	Flush mounting <sup>1)</sup>			Center mounting <sup>1)</sup>		
				Front IP65	Part no. Article no.	Price See price list	Std. pack	Front IP65	Part no. Article no.
<b>Voltmeter selector switch</b> With black thumb-grip and front plate									
		3 x phase-N with 0 position	3 + N	<b>T0-2-15921/E</b> 067337		1 Off	<b>T0-2-15921/EZ</b> 069710		1 Off
		3 x phase-phase 3 x phase-N with 0 position	3 + N	<b>T0-3-8007/E</b> 095813			<b>T0-3-8007/EZ</b> 098186		
		3 x phase-phase 3 x phase-N without 0 position with complete rotation in both directions	3 + N	<b>T0-3-15924/E</b> 019878			<b>T0-3-15924/EZ</b> 022251		
		3 x phase-phase with 0 position	3	<b>T0-2-15920/E</b> 038861			<b>T0-2-15920/EZ</b> 041234		
		3 x phase-phase without 0 position	3	<b>T0-2-15922/E</b> 053099			<b>T0-2-15922/EZ</b> 055472		
<b>Ammeter selector switch</b> With black thumb-grip and front plate With complete rotation in both directions. Measurement via current transformer With 0 (Off) position									
				<b>T0-3-8048/E</b> 034116		1 Off	<b>T0-3-8048/EZ</b> 036489		1 Off

Information relevant for export to North America



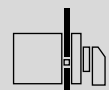








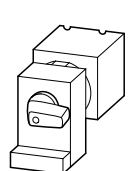






1)  
 Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking  
 UL File No. E36332  
 UL CCN NLRV  
 CSA File No. 12528  
 CSA Class No. 3211-05  
 NA Certification UL Listed, CSA certified  
 Suitable for Branch circuits  
 Degree of Protection IEC: IP65; UL/CSA Type 3R, 12


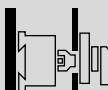




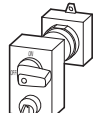

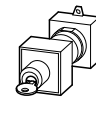
Surface mounting			Distribution board mounting <sup>2)</sup>			Rear mounting <sup>1)</sup>					
IP65	Part no. Article no.	Price See price list	Std. pack	Front IP30	Part no. Article no.	Price See price list	Std. pack	Front IP65	Part no. Article no.	Price See price list	Std. pack
				<b>T0-2-15921/IVS</b> 074456			1 Off	<b>T0-2-15921/Z</b> 076829			1 Off
<b>T0-3-8007/11</b> 207120			1 Off	<b>T0-3-8007/IVS</b> 012759				<b>T0-3-8007/Z</b> 015132			
<b>T0-3-15924/11</b> 207119			1 Off	<b>T0-3-15924/IVS</b> 026997				<b>T0-3-15924/Z</b> 029370			
				<b>T0-2-15920/IVS</b> 029452				<b>T0-2-15920/Z</b> 048353			
				<b>T0-2-15922/IVS</b> 060218				<b>T0-2-15922/Z</b> 062591			
				<b>T0-3-8048/IVS</b> 041235			1 Off	<b>T0-3-8048/Z</b> 043608			1 Off

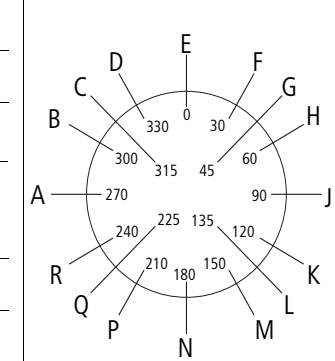
2)

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: –



Contact sequence	Front plate no.	Main contacts	Max. motor rating AC-23 A, 400/415 V, 50/60 Hz	Rated uninter-rupted current	Flush mounting IP65	Part no. Article no.	Price See price list	Std. pack	
		Pole N/O	400 V P kW	I <sub>u</sub> A					
<b>Panic switch</b>									
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		<b>T0-2-1/E/SVA(S)</b> 050977		1 Off	
		3	13	25		<b>P1-25/E/SVA(S)</b> 050966			
		3	15	32		<b>P1-32/E/SVA(S)</b> 044977			
<b>As an emergency switching off/emergency stop device</b> 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		<b>T0-2-1/E/SVA(S)-RT</b> 228291		1 Off	
		3	13	25		<b>P1-25/E/SVA(S)-RT</b> 050967			
		3	15	32		<b>P1-32/E/SVA(S)-RT</b> 050971			
<b>Padlocking feature SVC</b> 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		<b>T0-2-1/E/SVC(S)-RT</b> 044973		1 Off	
		3	13	25		<b>P1-25/E/SVC(S)-RT</b> 044974			
		3	15	32		<b>P1-32/E/SVC(S)-RT</b> 044975			
<b>On-Off switches</b>									
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		<b>T0-2-1/E/SVA(A)</b> 050976		1 Off	
		3	13	25		<b>P1-25/E/SVA(A)</b> 050965			
		3	15	32		<b>P1-32/E/SVA(A)</b> 050970			
<b>Key operation lock mechanism ST-0</b> 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		<b>T0-1-102/EZ/S</b> 014933		1 Off	







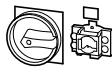


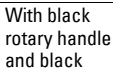













Surface mounting IP65	totally insulated	Rear mounting IP65	Part no. Article no.	Price See price list	Std. pack	Notes
						
			<b>T0-2-1/11/SVA(S)</b> 207084		1 Off	
			<b>P1-25/12/SVA(S)</b> 207305			
			<b>P1-32/12/SVA(S)</b> 207326			
			<b>T0-2-1/11/SVA(S)-RT</b> 207085		1 Off	
			<b>P1-25/12/SVA(S)-RT</b> 207306		1 Off	
			<b>T0-2-1/11/SVC(S)-RT</b> 207086		1 Off	
			<b>P1-25/12/SVC(S)-RT</b> 207307			
			<b>P1-32/12/SVC(S)-RT</b> 207328			
			<b>T0-2-1/11/SVA(A)</b> 207083		1 Off	
			<b>P1-25/12/SVA(A)</b> 207304			
			<b>P1-32/12/SVA(A)</b> 207325			
			<b>T0-1-102/11/S</b> 207063		1 Off	
			<b>T0-2-1/2/SVA(A)</b> 050978		1 Off	
			<b>P1-25/12/SVA(A)</b> 050969		1 Off	
			<b>T0-1-102/Z/S</b> 014971		1 Off	



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

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

HPL04058EN

	Emergency switching off/emergency stop	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
<b>Main switch assembly kits</b>						
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 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-T0</b> 057892	1 off 	<ul style="list-style-type: none"> <li>For locking the 0 position</li> <li>For switches with positions 0-I at 90°</li> <li>Switching angle as front plate FS908</li> <li>Lockable with max. 3 padlocks</li> </ul>
		Without emergency switching off/emergency stop function	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-P3</b> 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 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-SW-T0</b> 060265	1 off 	<ul style="list-style-type: none"> <li>For locking the 0 position</li> <li>For locking the I position when required</li> <li>Lockable with max. 3 padlocks</li> </ul>
		Without emergency switching off/emergency stop function	T0-.../E, .../Z, .../I1 T3-.../E, .../Z, .../I2 P1-.../E, .../Z, .../I2 T5B-.../E, .../Z, .../I4 T5-.../E, .../Z, .../I5 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>SVB-SW-P3</b> 062491	1 off 	
<b>Main switch assembly kits with PE terminal and N terminal</b>						
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 T5(B)-.../E, .../Z	<b>V/EA/SVB-T0</b> 062638	1 off 	<ul style="list-style-type: none"> <li>For converting flush mounting switch T.../E into flush mounting main switch T.../EA/SVB...</li> <li>For converting rear mounting switch T.../Z (with FS908 front plate) into interlocked rear mounting main switch T.../V/SVB</li> </ul>
		Without emergency switching off/emergency stop function	T0-.../E, .../Z T3-.../E, .../Z T5(B)-.../E, .../Z	<b>V/EA/SVB-T5</b> 045065	1 off 	
	With black rotary handle and black locking collar	Without emergency switching off/emergency stop function	T0-.../E, .../Z T3-.../E, .../Z T5(B)-.../E, .../Z	<b>V/EA/SVB-SW-T0</b> 065011	1 off 	<ul style="list-style-type: none"> <li>For converting rear mounting switch T.../Z (with FS908 front plate) into interlocked rear mounting main switch T.../V/SVB</li> </ul>
		Without emergency switching off/emergency stop function	T0-.../E, .../Z T3-.../E, .../Z T5(B)-.../E, .../Z	<b>V/EA/SVB-SW-T5</b> 045064	1 off 	
<b>Thumb-grips</b>						
	Black	–	T0-.../E, .../EZ, .../IVS, .../Z, .../I1 T3-.../E, .../EZ, .../IVS, .../Z, .../I2 P1-.../E, .../EZ, .../IVS, .../Z, .../I2	<b>KNB-T0</b> 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	<b>KNB-RT-T0</b> 043655	10 off 	<ul style="list-style-type: none"> <li>Order yellow FS908GE-T0 front plate additionally</li> </ul>
	Black	–	T5(B)-.../E, .../Z, .../I4 P3-63/E, .../Z, .../I4 P3-100/E, .../Z, .../I5	<b>KNB-P3</b> 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	<b>KNB-RT-P3</b> 046028	10 off 	<ul style="list-style-type: none"> <li>Order additional yellow front plate FS908GE-P3</li> </ul>
<b>Maintenance key for interlocked main switches</b>						
			T0... P1...	<b>KNK-T0</b> 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)
			P3...	<b>KNK-P3</b> 000649	5 off 	
<b>ATEX type</b>						
According to 94/9EG Test Certificate BVS04E106X						
	With metric knock-outs M20		T0-.../I1	<b>+ATEX-I1</b> 237513	1 off	Only available together with basic unit
	With solid side walls		T3-.../I2 P1-.../I2	<b>+ATEX-I2</b> 237514		
			T5B-.../I4 P3-.../I4	<b>+ATEX-I4</b> 237516		
		T5-.../I5 P3-.../I5	<b>+ATEX-I5</b> 237517			
<b>Information relevant for export to North America</b>						
	UL/CSA certification not required					

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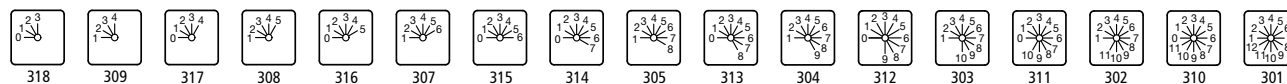
Switch size	Dimensions (W x H x D) mm	For use with	Blank plate Can be engraved Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America
<b>Standard front plate</b>						
Suitable for laser inscription						
T0, T3, P1	45 x 45	(for frame 48 x 48)	<b>FS(*)-T0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

Notes

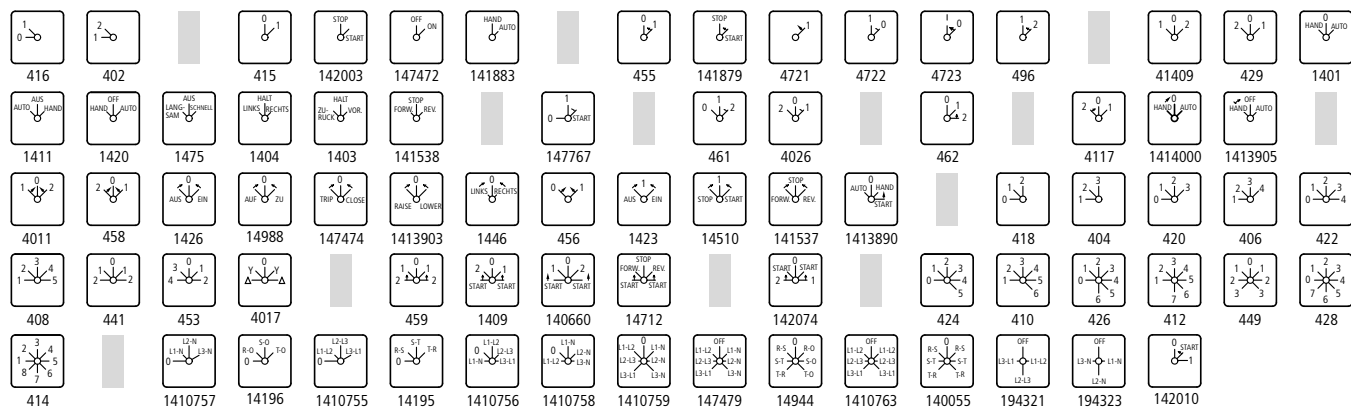
Standard front plate

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.

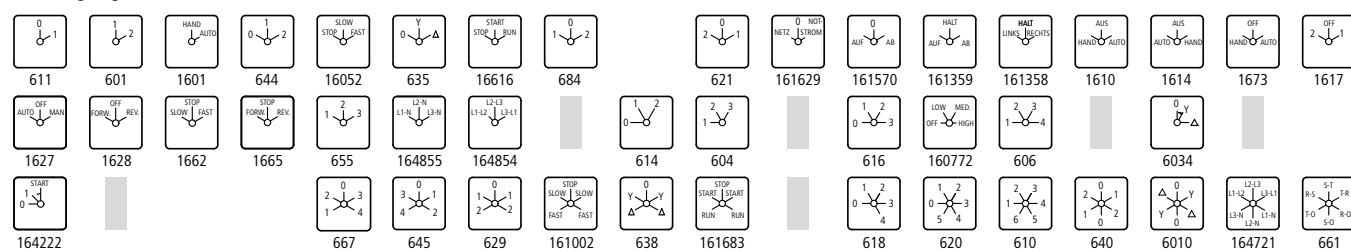
Switching angle 30°



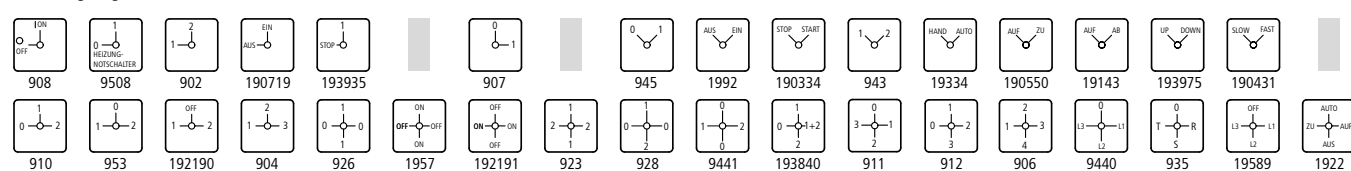
Switching angle 45°



Switching angle 60°



Switching angle 90°





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

**Information relevant for export to North America**

UL/CSA certification not required

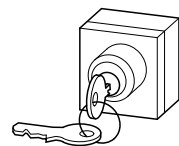


For use with

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

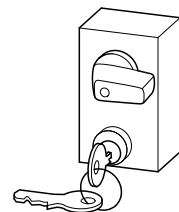
T0-1.../I1 to T0-4.../I1  
T0-1.../E to T0-6.../E  
T0-1.../Z to T0-6.../Z  
T3-1.../E to T3-5.../E  
T3-1.../Z to T3-5.../Z  
T3-1.../I2 to T3-4.../I2  
P1.../E  
P1.../I2  
P1.../Z

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

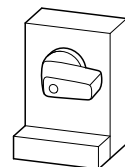
Withdrawable positions can be programmed by user

Withdrawable positions programmed at factory as ordered

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

**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


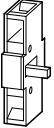






The positions that can be locked can be programmed by the user


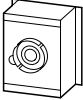

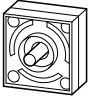





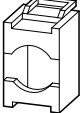







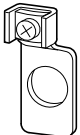

Specific positions or ranges can be locked

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

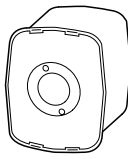


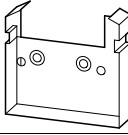




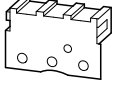


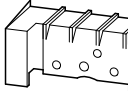





















Part no. Article no.	Price See price list	Std. pack	Notes
<b>S-T0</b> 086709		1 off	The key replaces the thumb-grip, cannot be switched without key. The switch position indication is on the lock. Normally the key is withdrawable in every position.
<b>S-SOND-KMS(*)-T0</b> 231957		1 off	On cam switches ordered with front plate FS908 together with key operation, the key is only withdrawable in the 0 position.
<b>S(*)-T0</b> 231959		1 off	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 4/66
<b>S(*)-SOND-SA(*)-T0</b> 231965		1 off	
<b>SVA-T3</b> 050974		1 off	
<b>SVA-SOND-KMS(*)-T3</b> 231967		1 off	
<b>SVA(*)-T3</b> 907745		1 off	
<b>SVA(*)-SOND-SA(*)-T3</b> 231971		1 off	
<b>SVC-T3</b> 050975		1 off	
<b>SVC(*)-T3</b> 907748		1 off	

	For use with	Part no. Article no.	Price See price list	Std. pack	Information relevant for export to North America 
<b>Neutral conductor</b>					
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	<b>N-P1E</b> 000651	5 off 	Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking UL File No. CSA report applies to both Canada and US 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, .../N, .../I2, .../IVS P3-.../E, .../EA...	<b>N-P1Z</b> 000652 <b>N-P3E</b> 062432 <b>N-P3Z</b> 064805		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
<b>Neutral terminal</b>					
Front mounting, left Service distribution board mounting, right					
	P5-125(160)/E(EA)	<b>N-P5-125/160E</b> 280969		1 off	
	P5-125(160)/Z(V)	<b>N-P5-125/160Z</b> 280970			
	P5-250(315)/E(EA)	<b>N-P5-250/315E</b> 280971			
	P5-250(315)/Z(V)	<b>N-P5-250/315Z</b> 280972			
<b>Ground terminal</b>					
Front mounting, right Service distribution board mounting, left					
	P5-125(160)/E(EA)	<b>PE-P5-125/160E</b> 280973		1 off	
	P5-125(160)/Z(V)	<b>PE-P5-125/160Z</b> 280974			
	P5-250(315)/E(EA)	<b>PE-P5-250/315E</b> 280975			
	P5-250(315)/Z(V)	<b>PE-P5-250/315Z</b> 280976			
<b>Auxiliary contacts</b>					
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	<b>HI11-P1/P3E</b> 061813	5 off 	Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-5; CE marking
	For P1.../I2: optionally, HI11-P1/P3Z or N-P1Z, can only be fitted on the left	P1-.../Z, .../N, .../I2, .../IVS P3-63/Z, .../N, .../I4, .../IVS P3-100/Z, .../N, .../I5, .../IVS	<b>HI11-P1/P3Z</b> 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)	<b>HI21-P5-125/160E</b> 280963	1 off	
		P5-125(160)/Z(V)	<b>HI21-P5-125/160Z</b> 280964		
		P5-250(315)/E(EA)	<b>HI21-P5-250/315E</b> 280965		
		P5-250(315)/Z(V)	<b>HI21-P5-250/315Z</b> 280966		
<b>Center mounting accessories</b>					
For single-hole fitting 22.3 mm					
	For cam switches with existing front plate - quick installation with snap fitting system	T0-.../E T3-.../E	<b>EZ-T0</b> 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	<b>EZ-P1</b> 091455	1 off 	

	For use with	Part no. Article no.	Price See price list	Std. pack	Notes	Information relevant for export to North America 
<b>Service distribution board mounting accessories</b>						
Including push-fit shaft						
	For retrofitting in service distribution board mounting T0-.../IVS design. Use the basic switch's front plate.	T0-.../XZ	<b>IVS-T0</b> 091114	1 off 		UL/CSA certification not required
<b>Coupling drive</b>						
Including push-fit shaft						
	For the retrofitting of switch T0(T3)-.../XZ as rear mounting, spare part for T0(T3)/(P1)-.../Z	–	<b>DE-T0</b> 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	–	<b>DE-P3</b> 093972	3 off 		
<b>Interlock sections</b>						
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	<b>UV-T0</b> 019925	1 off 	Mounting on the back of flush mounting switch	UL/CSA certification not required
		T5(B)-.../E, ...Z P3-.../E, ...Z	<b>UV-P3</b> 048289	1 off 	With interlock function for rear mounting switches	
<b>Interlock extensions</b>						
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	<b>ZVV-T0</b> 022298	10 off 	–	UL/CSA certification not required
	Use only with T5(B)-.../Z and P3-.../Z designs	UV-P3	<b>ZVV-P3</b> 024671	10 off 	–	
<b>Shaft extensions</b>						
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	<b>ZAV-T0</b> 027044	10 off 	–	UL/CSA certification not required
		T5(B)-.../Z P3-.../Z P3-.../V	<b>ZAV-P3</b> 029417	10 off 	–	
<b>Shaft</b>						
	Aluminum, length: 480 mm	P5-.../V... P5-.../Z	<b>ZAV-P5</b> 280979	1 off 		UL/CSA certification not required
<b>Interlock extensions und shaft extensions, complete</b>						
	Extension to 25 mm When ordering with basic unit		<b>+ZAV(X1)+ZVV(X1)-T0/P3</b> 254546	1 off 		UL/CSA certification not required
<b>Control cable terminal</b>						
		P5-250/315	<b>ST-P5-250/315</b> 280978	1 off 	Terminal capacity: • Solid or stranded: 4 mm <sup>2</sup> • Flexible with ferrules to DIN 46228: 4 mm <sup>2</sup>	UL/CSA certification not required





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

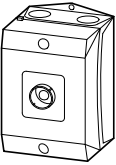






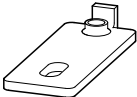


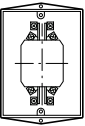




**Information relevant for export to North America**

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

HPL04067EN

		For use with	Part no. Article no.	Price See price list	Std. pack	Notes	
<b>IP65 insulated enclosures</b>							
	1 - 2 contact units	With push-through cable entry diaphragm.	T0-.../Z	<b>CI-K1-T0-2</b> 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	<b>CI-K1-T0-4</b> 207436	1 off		
	1 - 2 contact units		T3-.../Z	<b>CI-K2-T3-2<sup>1)</sup></b> 207437	1 off  		
	3 - 4 contact units		T3-.../Z	<b>CI-K2-T3-4<sup>1)</sup></b> 225325			
	5 contact units	T3-.../Z	<b>CI-K2-T3-5<sup>1)</sup></b> 207438				
			With metric knockouts	T0-.../Z	<b>CI-K1H-T0-2</b> 105854		1 off
	1 - 2 contact units	T0-.../Z		<b>CI-K1H-T0-4</b> 105855			
	3 - 4 contact units	T3-.../Z		<b>CI-K2H-T3-2</b> 269462			
	1 - 2 contact units	T3-.../Z		<b>CI-K2H-T3-4</b> 105859			
	3 - 4 contact units	T3-.../Z		<b>CI-K2H-T3-5</b> 105860			
	5 contact units	T5B-.../E		<b>CI-K4-T5B-2</b> 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
	1 - 2 contact units	T5B-.../Z		<b>CI-K4-T5B-4</b> 207440			
	3 - 4 contact units	T5-.../Z		<b>CI-K5-T5-2</b> 207441			
	3 - 4 contact units	T5-.../Z		<b>CI-K5-T5-4</b> 207442			
Only available together with basic unit	T0-.../I1	<b>+I1H</b> 105870		1 off			
Only available together with basic unit	T3-.../I2 P1-.../I2	<b>+I2H</b> 105871	1 off				
<b>Neutral terminals</b>							
For connection of a 5th conductor		CI-K2-PKZ0-...	<b>K-CI-K1<sup>2)</sup></b> 207451		20 off  		
		T5B-.../I4, CI-K4-T5B-... P3-.../I4, CI-K4	<b>K-CI-K4<sup>2)</sup></b> 206916				
		T5-.../I5, CI-K5-T5-... P3-.../I5, CI-K5	<b>K-CI-K5<sup>2)</sup></b> 218488				
<b>Set of external fixing brackets</b>							
		T5B-.../I4, T5-.../I5, P3-63/I4, P3-100/I5	<b>AB-CI-K4/5<sup>2)</sup></b> 206914		1 off  	For fixing CI-K4 and CI-K5 directly on walls. One set contains 4 brackets.	
<b>Set of extension terminals</b>							
For retrofitting for connection inside enclosure							
		For the bottom contact unit	T5B-.../I4 T5-.../I5	<b>AW-T5-1/2<sup>2)</sup></b> 032601	10 off  	Already included in equipment supplied with T5B-.../I4 and T5-.../I5.	
		For the second contact unit from the bottom	T5-.../I5	<b>AW-T5-3/4<sup>2)</sup></b> 032602	1 off  	Already included in equipment supplied with T5B-.../I4 and T5-.../I5.	

Notes

Information relevant for export to North America

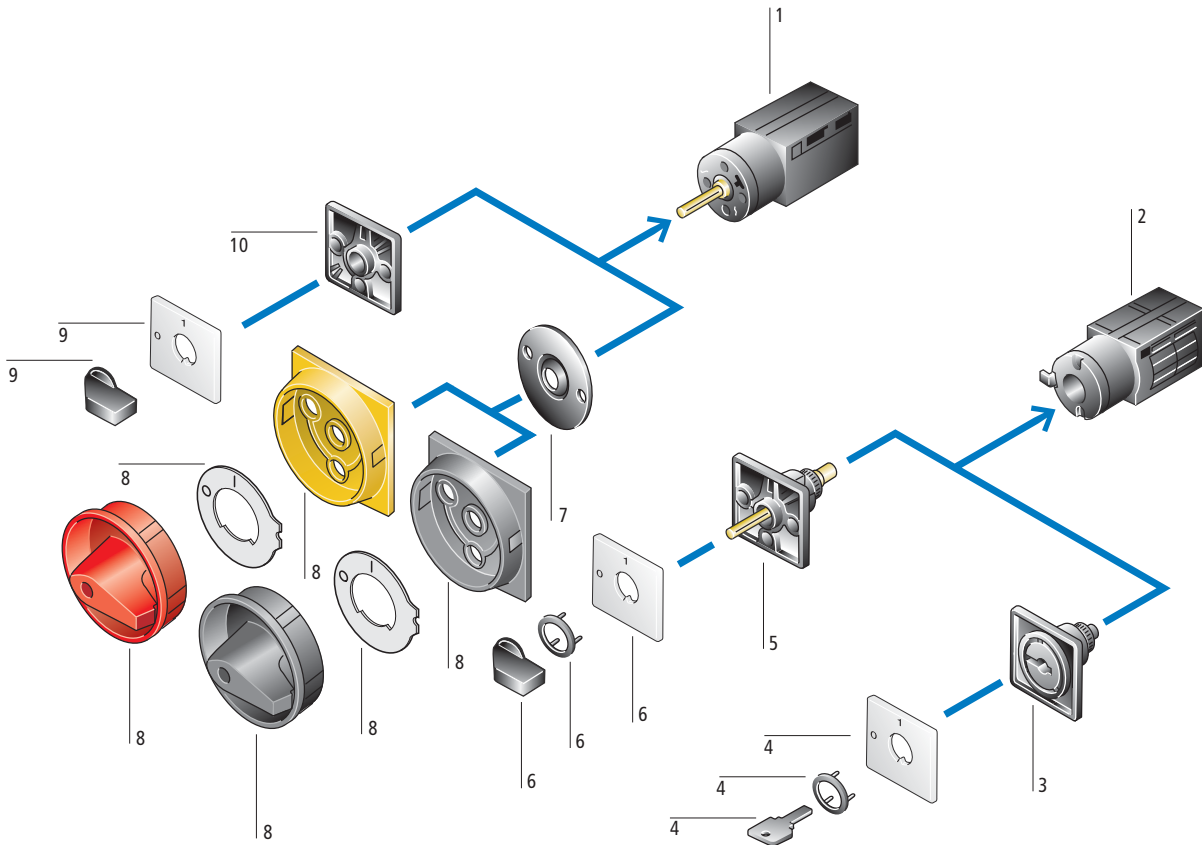


- <sup>1)</sup> Product Standards    UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94;  
IEC/EN 60947-3; CE marking
- UL File No.            E54120  
UL CCN                MITW2  
CSA File No.         12528  
CSA Class No.        3211-07  
NA Certification      UL Listed, CSA certified  
Degree of Protection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

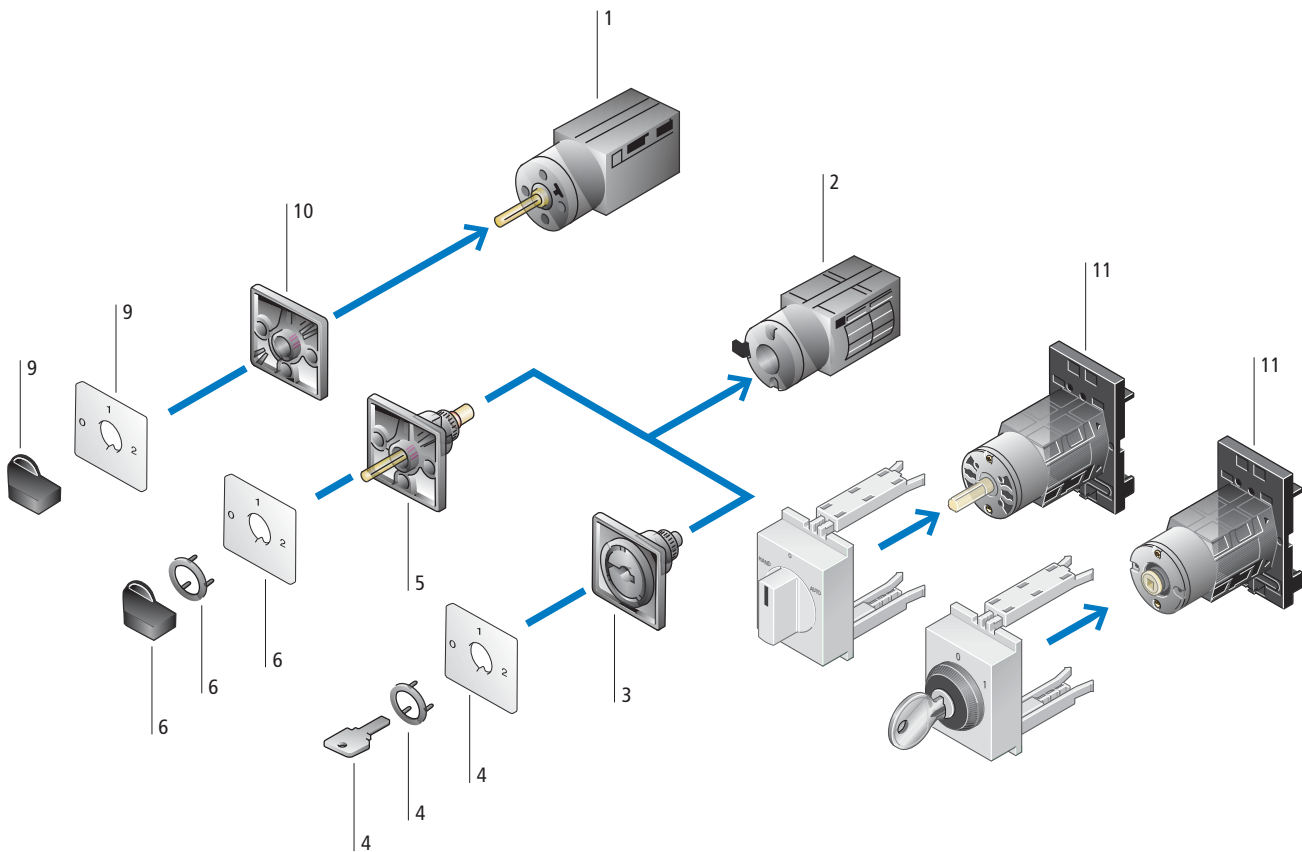
<sup>2)</sup> UL/CSA certification not required

System overview

TM ON-OFF switches



TM control switch





<b>Flush mounting (.../E)</b>	1
Front IP65	
Mounting from rear in panel sides, plates or doors	
Terminals	
Crosshead screwdriver Pozidriv	
Finger proof	
→ Page 4/70	

<b>Flush mounting control circuit isolator (.../E/SVB)</b>	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 4/70	

<b>Center mounting (.../EZ)</b>	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 4/70	

<b>Key operation for center mounting</b>	3, 4
2 keys are supplied	
Key withdrawable 90°	
Key withdrawable 60° with RONIS lock cylinder.	
→ Page 4/77	

<b>Standard switches for center mounting</b>	5, 6
Black thumb-grip	
→ Page 4/70	

<b>Control circuit isolators</b>	7, 8
Red rotary handle and yellow locking collar	
Black rotary handle and black locking collar	
Lockable in the 0 position	
→ Page 4/70	

<b>Standard switches for flush mounting</b>	9, 10
Black thumb-grip	
→ Page 4/71	

<b>Standard switches for IVS distribution board mounting</b>	11
Mounting in installation distribution board	
Overall width: 2 space units (45 mm mounting depth)	
Up to 2 contact units	

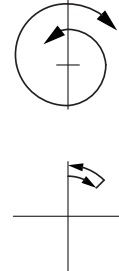
**Product features**

**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 ≥ 60°
- Complete rotation
- If the total switching angle is 360°, complete rotation possible in both operating directions





		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
<b>Control circuit isolators, 90°</b>								
with padlocking feature Lockable in the 0 (Off) position Up to 250 V AC per contact								
		1	<b>TM-1-8290/E/SVB</b> 045477		1 off 			
		1	<b>TM-1-8290/E/SVB-SW</b> 215351					
		2	<b>TM-1-8291/E/SVB</b> 045478					
		2	<b>TM-1-8291/E/SVB-SW</b> 215352					
		3	<b>TM-2-8292/E/SVB</b> 045484					
		3	<b>TM-2-8292/E/SVB-SW</b> 210955					
		3 + N	<b>TM-2-8293/E/SVB</b> 045485					
		6	<b>TM-3-8326/E/SVB</b> 045498					
<b>On-Off switches, 90°</b>								
		1	<b>TM-1-8290/E</b> 070131		1 off 	<b>TM-1-8290/EZ</b> 000693		1 off 
	F 056	2	<b>TM-1-8291/E</b> 072504			<b>TM-1-8291/EZ</b> 015073		
		3	<b>TM-2-8292/E</b> 074877			<b>TM-2-8292/EZ</b> 015096		
		3 + N	<b>TM-2-8293/E</b> 077250			<b>TM-2-8293/EZ</b> 045486		
		6	<b>TM-3-8326/E</b> 079623					

**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

HPL04071EN

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
			Flush mounting Front IP65			Center mounting Front IP65		
<b>Changeover switches without 0 (Off) position 60°</b>								
	F 072	1	<b>TM-1-8220/E</b> 081996		1 off 	<b>TM-1-8220/EZ</b> 000692		1 off 
		2	<b>TM-2-8221/E</b> 084369			<b>TM-2-8221/EZ</b> 015197		
		3	<b>TM-3-8222/E</b> 086742			<b>TM-3-8222/EZ</b> 045493		
		4	<b>TM-4-8223/E</b> 089115			<b>TM-4-8223/EZ</b> 046119		
		5	<b>TM-5-8369/E</b> 091488			<b>TM-5-8369/EZ</b> 046126		
		6	<b>TM-6-8370/E</b> 093861					
<b>Changeover switches with 0 (Off) position 60°</b>								
	F 071	1	<b>TM-1-8210/E</b> 096234		1 off 	<b>TM-1-8210/EZ</b> 015137		1 off 
		2	<b>TM-2-8211/E</b> 098607			<b>TM-2-8211/EZ</b> 015166		
		3	<b>TM-3-8212/E</b> 010807			<b>TM-3-8212/EZ</b> 045491		
		4	<b>TM-4-8213/E</b> 013180			<b>TM-4-8213/EZ</b> 045847		
<b>Changeover switches with 0 (Off) position 90°</b>								
	F 057	2	<b>TM-2-8219/E</b> 017926		1 off 			
		3	<b>TM-3-8299/E</b> 020299			1 off 		
	F 071							

**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



Contact sequence	Front plate no.	Pole	Flush mounting Front IP65		Center mounting Front IP65		Distribution board - mounting Front IP30		Std. pack	
			Part no. Article no.	Price See price list	Part no. Article no.	Price See price list	Part no. Article no.	Price See price list		
<b>Manual/auto switch 60°</b>										
		1			<b>TM-1-8220F288/EZ</b> 016925				1 off 	
	F 288									
		1	<b>TM-1-15431/E</b> 025045		<b>TM-1-15431/EZ</b> 000691		<b>TM-1-15431/IVS</b> 225342		1 off 	
	F 085									
		2	<b>TM-2-15432/E</b> 027418		<b>TM-2-15432/EZ</b> 016878				1 off 	
		3	<b>TM-3-15433/E</b> 029791		<b>TM-3-15433/EZ</b> 045490				1 off 	
<b>Changeover switches with spring-return from both directions, 30°</b>										
		1	<b>TM-1-8214/E</b> 032164						1 off 	
	F 025									
		2	<b>TM-2-8215/E</b> 034537						1 off 	
<b>Step switches without 0 (Off) position</b>										
<b>3 steps, 60°</b>										
		1	<b>TM-2-8230/E</b> 039283		<b>TM-2-8230/EZ</b> 000701				1 off 	
	F 076									
		3	<b>TM-5-8270/E</b> 041656		<b>TM-5-8270/EZ</b> 046124				1 off 	
<b>4 steps, 60°</b>										
		1	<b>TM-2-8231/E</b> 044029		<b>TM-2-8231/EZ</b> 000700				1 off 	
	F 077									
		3	<b>TM-6-8271/E</b> 046402		<b>TM-6-8271/EZ</b> 046128				1 off 	

**Information relevant for export to North America**

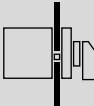
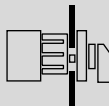
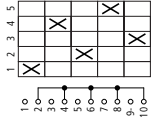



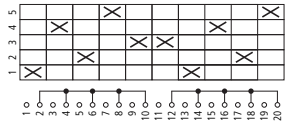


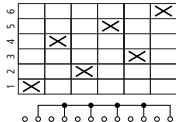



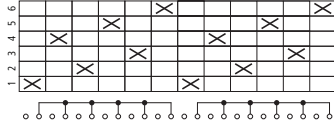


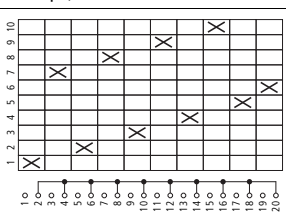





Product Standards  
UL File No.  
UL CCN  
CSA File No.  
CSA Class No.  
NA Certification

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

HPL04073EN

TM

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

**Information relevant for export to North America**

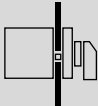
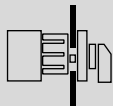




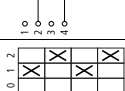

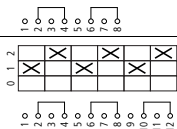




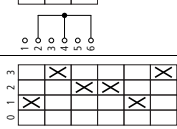
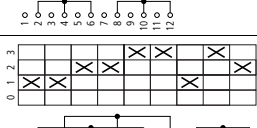
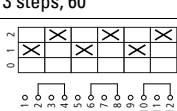


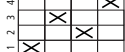



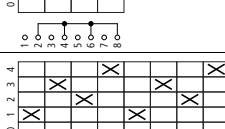

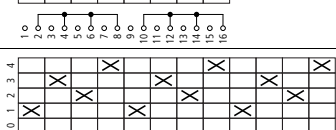


Product Standards UL 508; CSA-C22.2 No. 14-05; IEC/EN 60947-3; CE marking  
 UL File No. E36332  
 UL CCN NLRV  
 CSA File No. UL report applies to both US and Canada  
 CSA Class No. -  
 NA Certification UL Listed, certified by UL for use in Canada







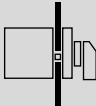
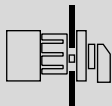
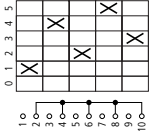



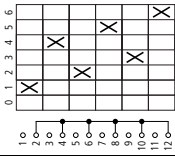



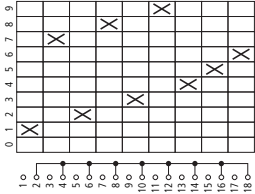

















Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
			Flush mounting Front IP65				Center mounting Front IP65	
								
<b>Step switches</b>								
With 0 (Off) position								
<b>2 steps, 60°</b>								
		1	<b>TM-1-8240/E</b> 058267		1 off 	<b>TM-1-8240/EZ</b> 015226		1 off 
		2	<b>TM-2-8260/E</b> 060640		1 off 	<b>TM-2-8260/EZ</b> 045483		
		3				<b>TM-3-8280/EZ</b> 045496		
<b>3 steps, 45°</b>								
		1	<b>TM-2-8241/E</b> 065386		1 off 	<b>TM-2-8241/EZ</b> 015256		1 off 
		2	<b>TM-3-8261/E</b> 067759			<b>TM-3-8261/EZ</b> 000698		
		3	<b>TM-5-8281/E</b> 070132			<b>TM-5-8281/EZ</b> 046125		
<b>3 steps, 60°</b>								
		3	<b>TM-3-8280/E</b> 063013		1 off 			
<b>4 steps, 30°</b>								
		1	<b>TM-2-8242/E</b> 072505		1 off 	<b>TM-2-8242/EZ</b> 015506		1 off 
		2	<b>TM-4-8262/E</b> 074878			<b>TM-4-8262/EZ</b> 046120		1 off 
		3	<b>TM-6-8282/E</b> 077251					

## 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



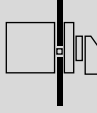
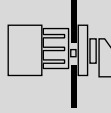
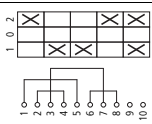


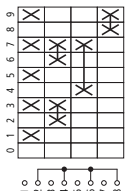



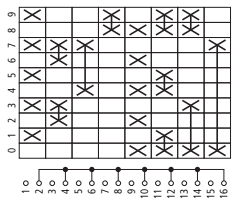


Contact sequence	Front plate no.	Pole	Part no. Article no.	Price See price list	Std. pack	Part no. Article no.	Price See price list	Std. pack
			Flush mounting Front IP65 			Center mounting Front IP65 		
<b>Step switches</b>								
With 0 (Off) position								
<b>5 steps, 30°</b>								
	 F 003	1	<b>TM-3-8243/E</b> 079624		1 off 	<b>TM-3-8243/EZ</b> 015537		1 off 
<b>6 steps, 30°</b>								
	 F 004	1	<b>TM-3-8244/E</b> 081997		1 off 	<b>TM-3-8244/EZ</b> 045495		1 off 
<b>9 steps, 30°</b>								
	 F 007	1	<b>TM-5-8247/E</b> 009741		1 off 	<b>TM-5-8247/EZ</b> 015565		1 off 
<b>Group switches</b>								
<b>2 groups, 60°</b>								
	 F 075	1	<b>TM-1-8310/E</b> 084370		1 off 	<b>TM-1-8310/EZ</b> 045479		1 off 
<b>3 groups, 30°</b>								
	 F 001	1				<b>TM-2-8311/EZ</b> 045487		1 off 
<b>ON OFF switches</b>								
<b>ON switch 30°</b>								
	 F 023	1				<b>TM-1-8175/EZ</b> 015690		1 off 
<b>ON OFF switches 90°/30°</b>								
With spring-return from start to 1								
	 F 119	1	<b>TM-1-8178/E</b> 098608		1 off 	<b>TM-1-8178/EZ</b> 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



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

**Information relevant for export to North America**

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HPL04077EN



	For mounting form EZ With two keys When ordering with basic unit		Std. pack	Notes
	Part no. Article no.	Price See price list		
<b>Key operated lock mechanism</b>				
<b>KABA lock 90° switch angle</b>				
Protection type IP65 With two keys When ordering with basic unit				
0°	<b>+EZ/S-A</b> 045458		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°.
270°	<b>+EZ/S-B</b> 045459			
270 + 0°	<b>+EZ/S-F</b> 045463			
<b>RONIS lock 60° switching angle</b>				
Protection type IP55 With two keys When ordering with basic unit				
270 + 90°	<b>+EZ/S-D</b> 045461		1 off	Options for key withdrawal  Position marking as in example 
300 + 0 + 60 + 120 + 180 + 240°	<b>+EZ/S-H</b> 045465			
270 + 330 + 30 + 90 + 150 + 210°	<b>+EZ/S-J</b> 045466			
270 + 330 + 90 + 150°	<b>+EZ/S-N</b> 045468			





Size	Dimensions (W x H x D) mm	For use with	Part no. Article no.	Price See price list	Std. pack	Notes
<b>Front plates</b>						
Blank plate Can be engraved						
TM	29 x 29	(for frame 30 x 30)	<b>FS980-TM-E</b> 071438		10 off 	<b>Standard front plates for separate order</b> 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)	<b>FS980-TM-EZ</b> 073811		50 off 	
Standard front plates						
TM.../E	29 x 29	(for frame 30 x 30)	<b>TM/E-FRONTSCILD-NR(*)</b> 239021		1 off 	<b>Switching angles 30°</b>
TM.../EZ	29 x 29	(for frame 30 x 30)	<b>TM/EZ-FRONTSCILD-NR(*)</b> 239022		1 off 	
<b>Switching angle 45°</b> 						
<b>Switching angle 60°</b> 						
<b>Switching angle 90°</b> 						

**Information relevant for export to North America**



UL/CSA certification not required

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



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

	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
<b>T5B cam switches</b>							
	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







	Part no.	Article no.	Price See price list	Part no.	Article no.	Price See price list	Std. pack
<b>T5 cam switches</b>							
	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*/I/SVB	908007		
	T5-1-SOND*/I5/SVB	207525		T5-5-SOND*/I/SVB-SW	908138		
	T5-1-SOND*/I5/SVB-SW	207526		T5-5-SOND*/Z	908025		
	T5-1-SOND*/N/SVB	908003					
	T5-1-SOND*/N/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*/I/SVB	908008		
	T5-2-SOND*/EA/SVB	907988		T5-6-SOND*/I/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*/N/SVB	908004		T5-7-SOND*/EA/SVB-SW	908132		
	T5-2-SOND*/N/SVB-SW	908135		T5-7-SOND*/I/SVB	908009		
	T5-2-SOND*/Z	908022		T5-7-SOND*/I/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*/I/SVB	908010		
	T5-3-SOND*/I5/SVB-SW	207532		T5-8-SOND*/I/SVB-SW	908141		
	T5-3-SOND*/N/SVB	908005		T5-8-SOND*/Z	908028		
	T5-3-SOND*/N/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*/N/SVB	908006					
	T5-4-SOND*/N/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

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

**Notes**

1)

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

For repeat orders for which the design number is already known. Form F02 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: -



T, TM

Ordering of non-standard contact sequences



↑	↑	↑	↑	↑	
Switch size	Number of contact units (2 contacts per contact unit)		Contact sequence number	Mounting form	Accessories
	Max. units	Contacts max.			
T0	11	22	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.	<ul style="list-style-type: none"> <li>• Mounting form /E</li> <li>• Center mounting /EZ (for T0, T3)</li> <li>• Surface mounting /I...<sup>1)</sup></li> <li>• Service distribution board mounting /IVS (for T0)</li> <li>• Rear mounting /Z</li> <li>• Flush mounting main switch /EA/SVB<sup>2)</sup></li> <li>• Surface mounting main switch /I.../SVB</li> <li>• Rear mounting main switch /V/SVB<sup>2)</sup></li> <li>• Designs for TM: /E, /EZ, or /IVS</li> </ul>	Always specify completely for every order! For TM.../EZ: only +EZ/S... possible
T3	11	22			
T5B	10	20			
T5	10	20			
TM	8	16			

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  
 $\frac{\quad}{2}$

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.

<sup>1)</sup> For T0-.../11: max. 4 contact units  
For T3-.../12: max. 5 contact units

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

Non-standard contact sequence ordering example



Binding document for ordering T cam switch combinations for the first time

Order No.: 123456	Item: 7	Office: Cologne	Author: HWS
Customer: Sample Company		Customer no.: A4711/2004	Date: 29.2.2004
Quantity: 3	Switching angle:	Part no.:	Number of contacts:
Euros/unit:	<input type="checkbox"/> 30 <input type="checkbox"/> 45 <input type="checkbox"/> 60 <input type="checkbox"/> 90	<input type="checkbox"/> TM <input type="checkbox"/> T0 <input type="checkbox"/> T3 <input type="checkbox"/> T5B <input type="checkbox"/> T5	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11
			<input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22
			Mounting form: <input type="checkbox"/> E <input type="checkbox"/> EA/SVB <input type="checkbox"/> EZ <input type="checkbox"/> I... <input type="checkbox"/> I../SVB <input type="checkbox"/> IVS <input type="checkbox"/> V/SVB <input type="checkbox"/> Z <input type="checkbox"/> + ST-0 <input type="checkbox"/> + _____
			<input type="checkbox"/> EA/SVB-SW <input type="checkbox"/> I../SVB-SW <input type="checkbox"/> V/SVB-SW

Max. characters per position					
Degrees	TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)
0.18	5	5	6	13	13
30, 210, 330	8	7	4	8	8
45, 135, 225, 315	6	5	4	6	7
60, 120, 240, 300	5	5	3	5	7
90, 270	5	4	1	4	7
150	4	4	4	8	8



<b>Front plate no.</b>  <b>FS</b>  <input type="radio"/> Complete rotation  <input type="radio"/> Automatic spring-return    <b>Inscription</b>	<b>Contact units</b> <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:8.33%; border: 1px solid black;">1</td> <td style="width:8.33%; border: 1px solid black;">2</td> <td style="width:8.33%; border: 1px solid black;">3</td> <td style="width:8.33%; border: 1px solid black;">4</td> <td style="width:8.33%; border: 1px solid black;">5</td> <td style="width:8.33%; border: 1px solid black;">6</td> <td style="width:8.33%; border: 1px solid black;">7</td> <td style="width:8.33%; border: 1px solid black;">8</td> <td style="width:8.33%; border: 1px solid black;">9</td> <td style="width:8.33%; border: 1px solid black;">10</td> <td style="width:8.33%; border: 1px solid black;">11</td> </tr> </table>	1	2	3	4	5	6	7	8	9	10	11																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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<b>Key withdrawable</b> X	Part no. for repeat orders (to be filled in by factory) <b>T</b> _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Key withdrawability for ..S-T0 and SVA-T3:  
 Pos. 1: Key withdrawable  
 Pos. 2: Key withdrawable  
 Pos. 3: Key withdrawable  
 Pos. 4: Key not withdrawable  
 In the case of SVA-T3, the unit can still be switched between positions 1 and 2 if the key has been removed..

T, TM



Binding document for ordering T cam switch combinations for the first time

Order No.:	Item:	Office:	Name:
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Customer:	Customer no.:	Date:
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<p><b>Notes:</b></p> <p>The number of possible contacts, as well as the possible combinations with mounting forms are shown in the Main Catalogue.</p>	<p>Quantity:</p>  <p>Euros/unit:</p>	<p>Switching angle:</p> <p><input type="checkbox"/> 30 <input type="checkbox"/> 45 <input type="checkbox"/> 60 <input type="checkbox"/> 90</p>	<p>Part no.:</p> <p><input type="checkbox"/> TM <input type="checkbox"/> T0 <input type="checkbox"/> T3 <input type="checkbox"/> T5B <input type="checkbox"/> T5</p>	<p>Number of contacts:</p> <table style="width:100%;"> <tr><td><input type="checkbox"/> 1</td><td><input type="checkbox"/> 12</td></tr> <tr><td><input type="checkbox"/> 2</td><td><input type="checkbox"/> 13</td></tr> <tr><td><input type="checkbox"/> 3</td><td><input type="checkbox"/> 14</td></tr> <tr><td><input type="checkbox"/> 4</td><td><input type="checkbox"/> 15</td></tr> <tr><td><input type="checkbox"/> 5</td><td><input type="checkbox"/> 16</td></tr> <tr><td><input type="checkbox"/> 6</td><td><input type="checkbox"/> 17</td></tr> <tr><td><input type="checkbox"/> 7</td><td><input type="checkbox"/> 18</td></tr> <tr><td><input type="checkbox"/> 8</td><td><input type="checkbox"/> 19</td></tr> <tr><td><input type="checkbox"/> 9</td><td><input type="checkbox"/> 20</td></tr> <tr><td><input type="checkbox"/> 10</td><td><input type="checkbox"/> 21</td></tr> <tr><td><input type="checkbox"/> 11</td><td><input type="checkbox"/> 22</td></tr> </table>	<input type="checkbox"/> 1	<input type="checkbox"/> 12	<input type="checkbox"/> 2	<input type="checkbox"/> 13	<input type="checkbox"/> 3	<input type="checkbox"/> 14	<input type="checkbox"/> 4	<input type="checkbox"/> 15	<input type="checkbox"/> 5	<input type="checkbox"/> 16	<input type="checkbox"/> 6	<input type="checkbox"/> 17	<input type="checkbox"/> 7	<input type="checkbox"/> 18	<input type="checkbox"/> 8	<input type="checkbox"/> 19	<input type="checkbox"/> 9	<input type="checkbox"/> 20	<input type="checkbox"/> 10	<input type="checkbox"/> 21	<input type="checkbox"/> 11	<input type="checkbox"/> 22	<p>Mounting form:</p> <p><input type="checkbox"/> E <input type="checkbox"/> EA/SVB <input type="checkbox"/> EA/SVB-SW <input type="checkbox"/> EZ <input type="checkbox"/> I... <input type="checkbox"/> I.../SVB <input type="checkbox"/> I.../SVB-SW <input type="checkbox"/> IVS <input type="checkbox"/> V/SVB <input type="checkbox"/> V/SVB-SW <input type="checkbox"/> Z <input type="checkbox"/> + _____ <input type="checkbox"/> + _____</p>																				
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<p>Max. characters per position</p> <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Degrees</th> <th>TM-E</th> <th>TM-EZ</th> <th>TM-IVS</th> <th>T0(3)</th> <th>T5(B)</th> </tr> </thead> <tbody> <tr><td>0.18</td><td>5</td><td>5</td><td>6</td><td>13</td><td>13</td></tr> <tr><td>30, 210, 330</td><td>8</td><td>7</td><td>4</td><td>8</td><td>8</td></tr> <tr><td>45, 135, 225, 315</td><td>6</td><td>5</td><td>4</td><td>6</td><td>7</td></tr> <tr><td>60, 120, 240, 300</td><td>5</td><td>5</td><td>3</td><td>5</td><td>7</td></tr> <tr><td>90, 270</td><td>5</td><td>4</td><td>1</td><td>4</td><td>7</td></tr> <tr><td>150</td><td>4</td><td>4</td><td>4</td><td>8</td><td>8</td></tr> </tbody> </table>						Degrees	TM-E	TM-EZ	TM-IVS	T0(3)	T5(B)	0.18	5	5	6	13	13	30, 210, 330	8	7	4	8	8	45, 135, 225, 315	6	5	4	6	7	60, 120, 240, 300	5	5	3	5	7	90, 270	5	4	1	4	7	150	4	4	4	8	8
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90, 270	5	4	1	4	7																																										
150	4	4	4	8	8																																										

<p><b>Front plate no.</b></p> <p><b>FS</b> _____</p> <p><input type="radio"/> Complete rotation</p> <p><input type="radio"/> Automatic Spring-return</p> <div style="text-align: center;"> <p><b>Inscription</b></p> </div>	<p><b>Contact units</b></p> <table style="width:100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <td>1</td><td>3</td><td>5</td><td>7</td><td>9</td><td>11</td><td>13</td><td>15</td><td>17</td><td>19</td><td>21</td><td>23</td><td>25</td><td>27</td><td>29</td><td>31</td><td>33</td><td>35</td><td>37</td><td>39</td><td>41</td><td>43</td> </tr> <tr> <td>2</td><td>4</td><td>6</td><td>8</td><td>10</td><td>12</td><td>14</td><td>16</td><td>18</td><td>20</td><td>22</td><td>24</td><td>26</td><td>28</td><td>30</td><td>32</td><td>34</td><td>36</td><td>38</td><td>40</td><td>42</td><td>44</td> </tr> </table>	1	2	3	4	5	6	7	8	9	10	11	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44																																																																																																																																																																																																																																																																																																																																																																							
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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)**

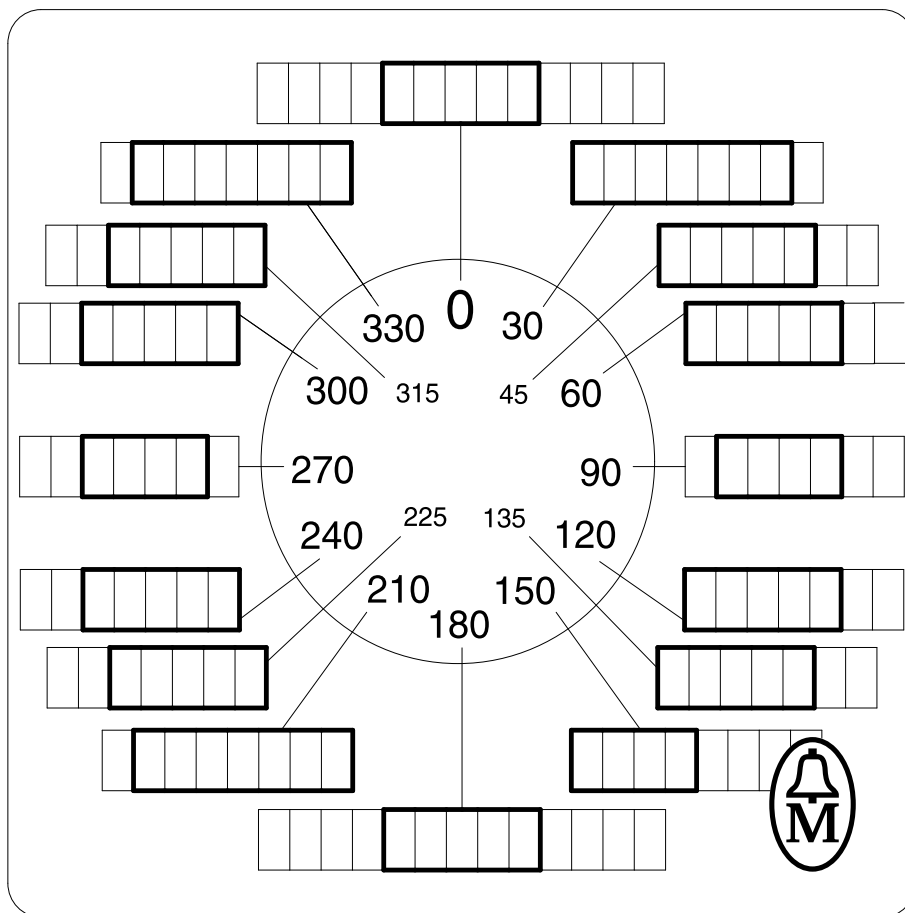
Letter height  
 ≤ 2 Characters 4 mm  
 ≥ 2 Characters 3 mm

**FS-SOND-  
P3 (T5B, T5)**

Letter height  
 ≤ 2 Characters 8 mm  
 ≥ 2 Characters 5 mm

**FS-SOND-TM-E  
FS-SOND-TM-EZ**

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



For P1 and P3, fill out positions 270° and 0° only

Max. possible number of characters

Position	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)

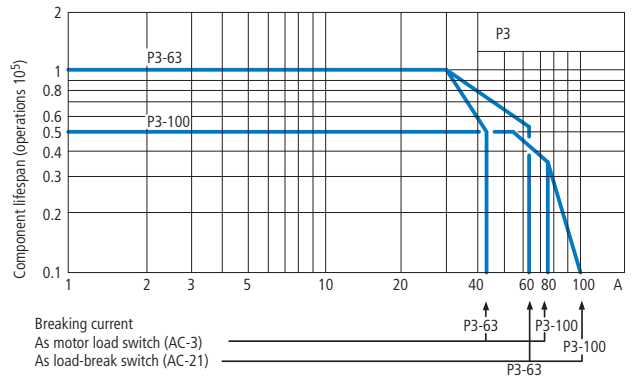
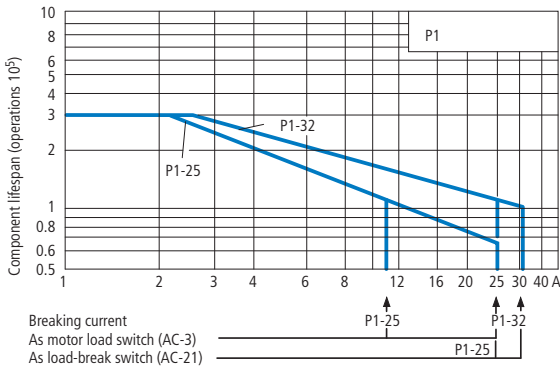
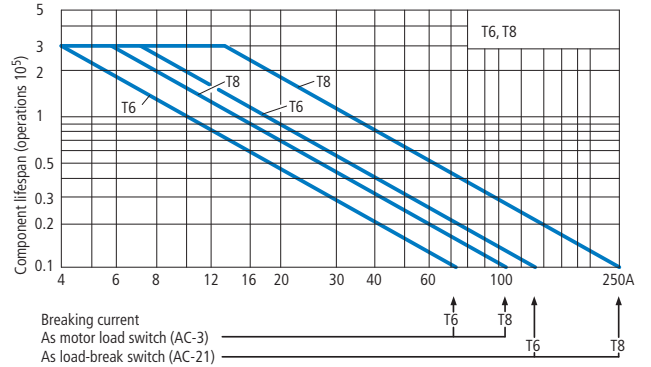
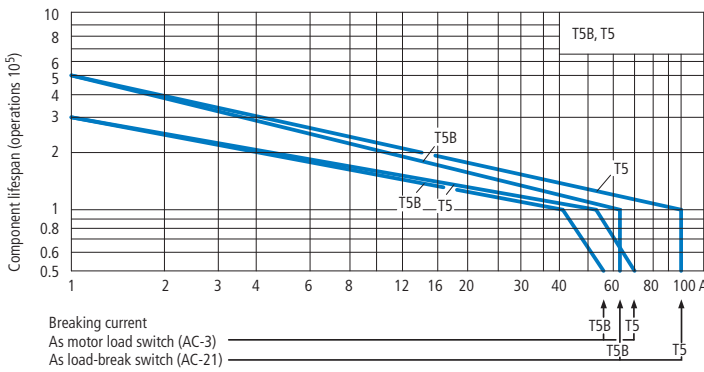
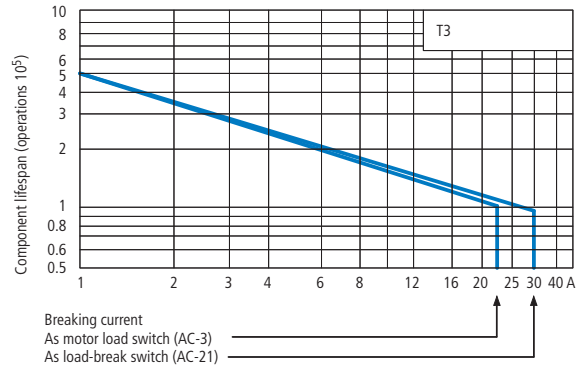
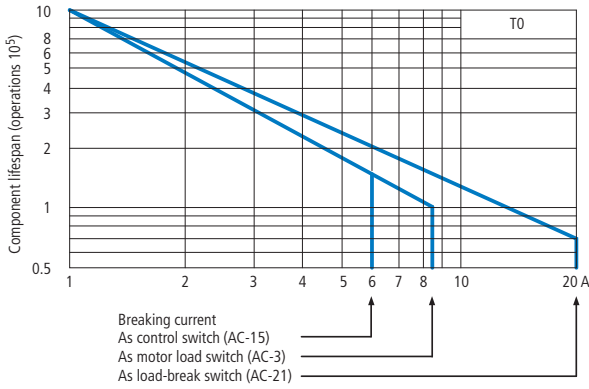
**FS**.....

T, P

Characteristic curves

Component lifespan based on breaking current and utilization category <sup>1)</sup>

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

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

## Technical data

				P1-25	P1-32	P3-63	P3-100				
<b>General</b>											
Standards				IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL switch-disconnector to IEC/EN 60947-3							
Lifespan, mechanical		Operations	x 10 <sup>6</sup>	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		-25 - 50	-25 - 50	-25 - 50	-25 - 50				
		Enclosed		-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		20	20	15	15				
<b>Contacts</b>											
Rated operational voltage		U <sub>e</sub>	V AC	690	690	690	690				
Rated impulse withstand voltage		U <sub>imp</sub>	V AC	6000	6000	6000	6000				
Overvoltage category/pollution degree				III/3	III/3	III/3	III/3				
Rated uninterrupted current		I <sub>u</sub>	A	25	32	63	100				
Load rating with intermittent operation, class 12		AB 60 % DF		x I <sub>e</sub>	1.3	1.3	1.3				
		AB 40 % DF		x I <sub>e</sub>	1.6	1.6	1.6				
		AB 25 % DF		x I <sub>e</sub>	2	2	2	2			
Short-circuit rating		Fuse		A gG/gL	25	50	80	100			
Rated short-time withstand current (1 s current)		I <sub>cw</sub>	A <sub>rms</sub>	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				
Contacts				Number	Max. 3 (+N)	Max. 3 (+N)	Max. 3 (+N)				
Current heat loss per contact at I <sub>e</sub>				W	1.1	1.8	4.5	7.5			
<b>Terminal capacity</b>											
Solid or stranded				mm <sup>2</sup>	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 <sup>2</sup>	1 x (1 - 4) 2 x (1 - 4)	1 x (1 - 4) 2 x (1 - 4)	1 x (1.5 - 25) 2 x (1.5 - 6)	1 x (1.5 - 25) 2 x (1.5 - 6)			
Terminal screw					M4	M4	M5	M5			
Tightening torque				Nm	1.6	1.6	3	3			
<b>Switching capacity</b>											
AC voltage											
Rated making capacity cos φ = 0.35				A	240	320	800	950			
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 <sub>e</sub>	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 <sub>e</sub>	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		Rated operational current		I <sub>e</sub>	A	25	25	50	50		
		Contacts				Number	1	1	1	1	
		48 V		Rated operational current		I <sub>e</sub>	A	25	25	50	50
				Contacts				Number	2	2	2
60 V		Rated operational current		I <sub>e</sub>	A	25	25	50	50		
		Contacts				Number	3	3	3	3	
120 V		Rated operational current		I <sub>e</sub>	A	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<sub>u</sub> is specified for max. cross-section.

For terminal capacity solid, stranded and flexible: Max. 2 cross-section sizes difference admissible when using 2 conductors.







Rating data for approved types <sup>1)</sup>				P1-25	P1-32	P3-63	P3-100
UL File No. E36332							
<b>Contacts</b>							
Rated operational voltage U <sub>e</sub>		V AC		600	600	600	600
Rated uninterrupted current I <sub>u</sub>							
Current rating		A		20	30	60	100
Pilot Duty				A 600P 600	A 600P 600	–	–
<b>Switching capacity</b>							
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
Single-phase	575 V AC	HP		15	25	50	75
	120 V AC	HP		1½	2	3	5
	200 V AC	HP		3	3	7½	10
	230 V AC	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
<b>Terminal capacity</b>							
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
				<b>HI 11</b>			
<b>Auxiliary contacts (1 N/O + 1 N/C)</b>							
Pilot Duty				P 600			
Heavy Pilot Duty				A 600			
General Use				10 A – 600 V AC			

**Notes** <sup>1)</sup> Devices for world markets IEC ≙ UL/CSA

UL File No:	UL approved protection types		
	UL/NEMA 3R <sup>1)</sup>	UL/NEMA 12	UL/NEMA 13
E36332			
<b>Switch-disconnectors</b>			
P1-.../EA/SVB	•	•	–
P1-.../V/SVB	•	•	–
P3-.../EA/SVB	•	•	•
P3-.../V/SVB	•	•	•

**Notes** Details of protection types  
<sup>1)</sup> NEMA recommendation

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

			P5-125	P5-160	P5-250	P5-315
<b>General</b>						
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3			
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	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
<b>Contacts</b>						
Rated operational voltage	U <sub>e</sub>	V AC	690	690	690	690
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	8000	8000	8000	8000
Overvoltage category/pollution degree			III/3	III/3	III/3	III/3
Rated uninterrupted current	I <sub>u</sub>	A	125	160	250	315
Load rating with intermittent operation, class 12	AB 60 % DF	x I <sub>e</sub>	1.3	1.3	1.3	1.3
	AB 40 % DF	x I <sub>e</sub>	1.6	1.6	1.6	1.6
	AB 25 % DF	x I <sub>e</sub>	2	2	2	2
Short-circuit rating	Fuse	A gG/gL	125	160	250	315
Rated short-time withstand current (1 s current)	I <sub>cw</sub>	A <sub>rms</sub>	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 <sub>e</sub>		W	8	10	13	16
<b>Terminal capacity</b>						
Solid or stranded		mm <sup>2</sup>	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 <sup>2</sup>	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<sub>u</sub> is specified for max. cross-section.  
For terminal capacity solid, stranded, and flexible:  
Max. 2 cross-section sizes difference admissible when using 2 conductors.





				P5-125	P5-160	P5-250	P5-315
<b>Switching capacity</b>							
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	Rated operational current	$I_e$	A	125	160	250	315
	DC-1, load switch L/R = 1 ms	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	$I_e$	125	160	250	315
		Contacts	Number	3	3	3	3
	48 V	Rated operational current	$I_e$	125	160	250	315
		Contacts	Number	3	3	3	3
	60 V	Rated operational current	$I_e$	125	160	250	315
		Contacts	Number	3	3	3	3
120 V	Rated operational current	$I_e$	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.

				HI...-P1(P3)...	HI...-P5...
<b>Auxiliary contacts</b>					
Standards					
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 <sup>2</sup>		1 × 0.75 - 2.5 2 × 0.75 - 1.5	1 × 0.75 - 2.5 2 × 0.75 - 1.5
Flexible with ferrule to DIN 46228		mm <sup>2</sup>		1 × 0.5 - 1.5 2 × 0.5 - 1.5	1 × 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 <sup>-5</sup> , < 1 failure for 100 000 switching operations	

## P5

Rating data for approved types UL File No. E36332				P5-125	P5-160	P5-250	P5-315
<b>Contacts</b>							
Rated operational voltage	$U_e$	V		600	600	600	600
Rated impulse withstand voltage <sup>1)</sup>	$U_{imp}$	V AC		8000	8000	8000	8000
Rated uninterrupted current <sup>2)</sup>	$I_u$	A		125	160	250	300
<b>Rated operational current</b>							
Ampere rating	Off switch	$I_e$	A	125 <sup>2)</sup>	160 <sup>2)</sup>	250 <sup>2)</sup>	300 <sup>2)</sup>
	Changeover switches	$I_e$	A	125 <sup>2)</sup>	160 <sup>2)</sup>	–	–
Non inductive and slightly inductive loads							
<b>Rated switching duty</b>							
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
<b>Short-circuit rating</b>							
Max. back-up fuse, gL characteristic			A	125	160	250	315
Rated short-time withstand current (1 s current)			A	2500	3000	4600	5800
<b>Terminal capacity</b>							
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	20
Max. width			mm	20	20	25	25
Max. width with terminal cover			mm	25	25	34	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** <sup>1)</sup> Valid for mains with grounded star point, overvoltage category III, pollution degree 3  
<sup>2)</sup> Valid for connection with cables for 75 °C

				HI11	HI21-P5-125(160)	HI21-P5-250(315)
<b>Auxiliary contacts</b>						
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
<b>Short-circuit rating</b>						
Max. fuse			gL characteristic	A	–	16
Terminal capacity						
Solid or stranded			AWG	–	12	12
Flexible without ferrule			AWG	–	14	14

**Notes** <sup>1)</sup> Devices for world markets IEC  $\Delta$  UL/CSA



			T0-...	T3-...
<b>General</b>				
Standards			IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL, Switch-disconnectors to IEC/EN 60947-3 Load-break switch according to IEC/EN 60947-3	
Lifespan, mechanical	Operations	x 10 <sup>6</sup>	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				
Mechanical shock resistance to IEC 60068-2-27	Half-sinusoidal shock 20 ms	g	> 15	> 15
<b>Contacts</b>				
Rated operational voltage	U <sub>e</sub>	V AC	690	690
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	6000	6000
Overvoltage category/pollution degree			III/3	III/3
Rated uninterrupted current				
Open	I <sub>u</sub>	A	20	32
Enclosed	I <sub>u</sub>	A	20	32
Load rating with intermittent operation, class 12				
AB 25 % DF		x I <sub>e</sub>	2	2
AB 40 % DF		x I <sub>e</sub>	1.6	1.6
AB 60 % DF		x I <sub>e</sub>	1.3	1.3
Short-circuit rating				
Fuse		A gG/gL	20	35
Rated short-time withstand current (1 s current)	I <sub>cs</sub>	A <sub>rms</sub>	320	650
Safe isolation according to EN 61140				
Between the contacts		V AC	440	440
Switching angle				
		°	90 60 45 30	90 60 45 30
Contact units				
Contacts with double-break			Max. 11	Max. 11
Current heat loss per contact at I <sub>e</sub>		W	0.6	1.1
<b>Terminal capacity</b>				
Solid or stranded				
		mm <sup>2</sup>	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 <sup>2</sup>	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 <sup>2</sup>		
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<sub>e</sub> up to 500 VAC  
The following applies to rated uninterrupted current I<sub>u</sub> 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) 2 x (2.5 - 16)	1 x (2.5 - 35) 2 x (2.5 - 16)	1 x 70 2 x 25	1 x 95 2 x 25	150
1 x (1.5 - 25) 2 x (1.5 - 10)	1 x (1.5 - 25) 2 x (1.5 - 10)	1 x 50 2 x 16	1 x 50 2 x 16	120
				1 x (25 x 5) 2 x (20 x 3)
M6	M6	M6	M5, hexagon screw	M12
4	4	5.6	14	25

				T0-...	T3-...	
<b>Switching capacity</b>						
AC voltage						
Rated making capacity $\cos \varphi = 0.35$		A		130	320	
Rated breaking capacity, Motor load switch $\cos \varphi = 0.35$	230 V	A		100	260	
	400 V	A		110	260	
	500 V	A		80	240	
	690 V	A		60	170	
Rated operational current 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		
<b>Auxiliary contacts</b>						
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 <sup>2</sup>		-	-	
Flexible with ferrule to DIN 46228		mm <sup>2</sup>		-	-	
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		-

## Approvals for North America

Rating data for approved types<sup>1)</sup>

UL File No. E36332

## Contacts

		T0-...	T3-...	T5B-...
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

<sup>1)</sup> Devices for world markets IEC  $\triangle$  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.

## 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; /N; /IVS	+NA 105864	+NA 105864	
/I2		+NA-I2 105866	
/I4			
/I5			+NA-I5 105869

				TM
<b>General</b>				
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 <sup>6</sup>		> 1
Maximum operating frequency	Operations/h			3000
Climatic proofing				Damp heat, constant, to IEC 60068-2-78; Damp heat, cyclical, to IEC 60068-2-30
Ambient temperature				
Open		°C		-25...50
Enclosed		°C		-25...40
Mounting position				Any
Terminal capacity				
Solid		mm <sup>2</sup>		1 x 1.5 2 x 1.5
Flexible without ferrule		mm <sup>2</sup>		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
<b>Contacts</b>				
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 <sub>e</sub>	V AC		500
Rated impulse withstand voltage	U <sub>imp</sub>	V AC		4000
Overvoltage category/pollution degree				III/3
Rated insulation voltage	U <sub>i</sub>	V AC		500
Rated insulation voltage to UL/CSA		V AC		300
Rated uninterrupted current	I <sub>u</sub>	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 <sub>e</sub>	A	3
	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 <sub>f</sub>		< 10 <sup>-5</sup> , < 1 failure for 100000 switching cycles

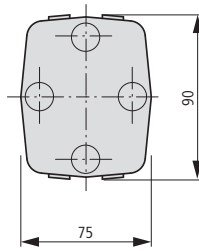
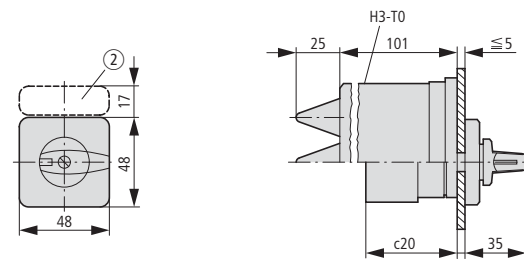




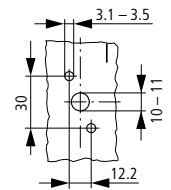
## Dimensions

### Flush mounting

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

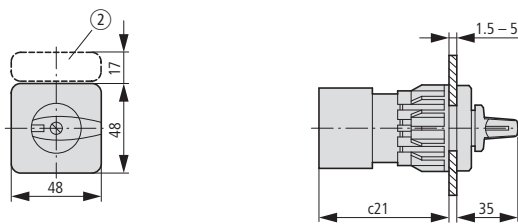


### Drilling dimensions

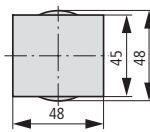


### Center mounting

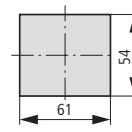
T0.../EZ  
T3.../EZ



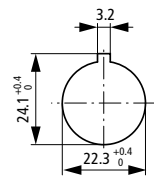
T0



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

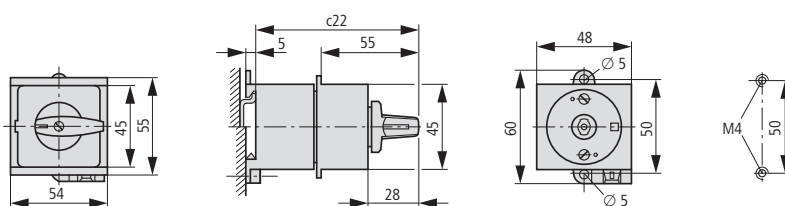
Depth of one contact unit: 11.5 mm

② Not included as standard

### Service distribution board mounting

T0.../IVS

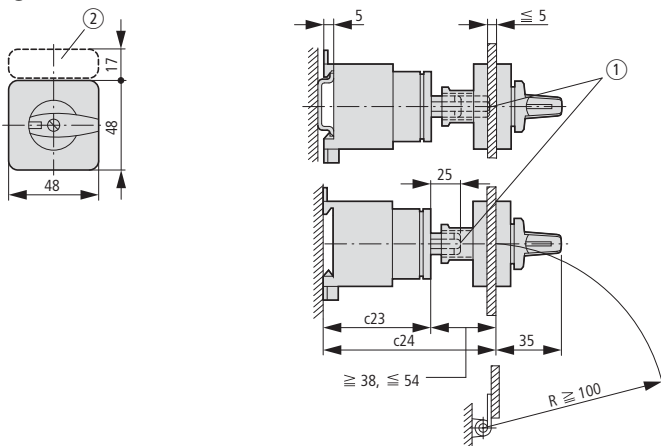
Drilling dimensions  
base



#### Rear mounting

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

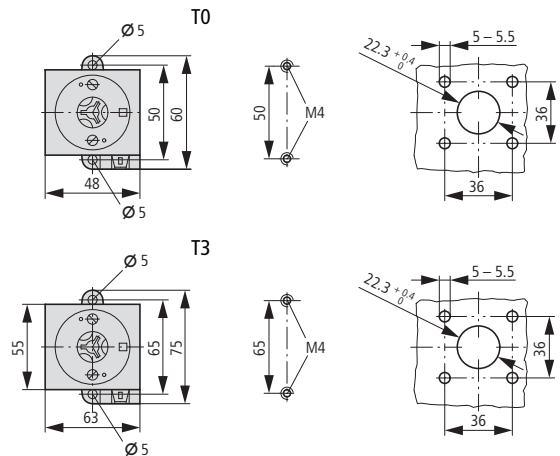
① Extension with



ZAV-T0 possible,  
≤ 4 x 25 = 100 mm

Drilling  
dimensions  
base

Drilling  
dimensions  
door



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

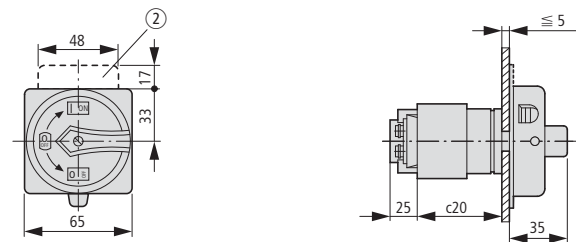
② Not included as standard

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	–

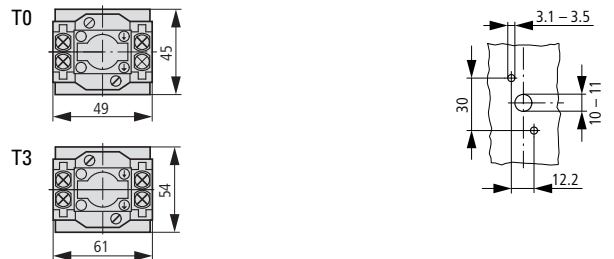
Depth of one contact unit: 11.5 mm

#### Flush mounting main switch

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

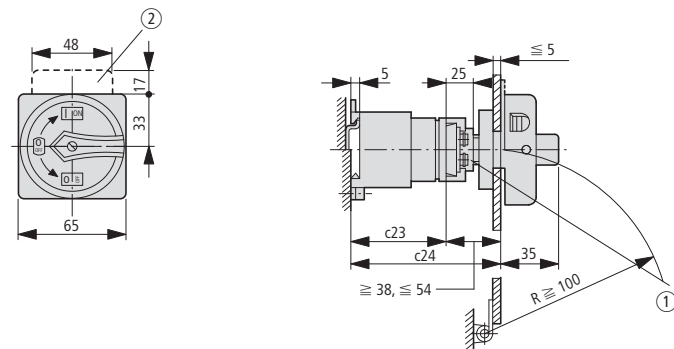


Drilling  
dimensions  
door



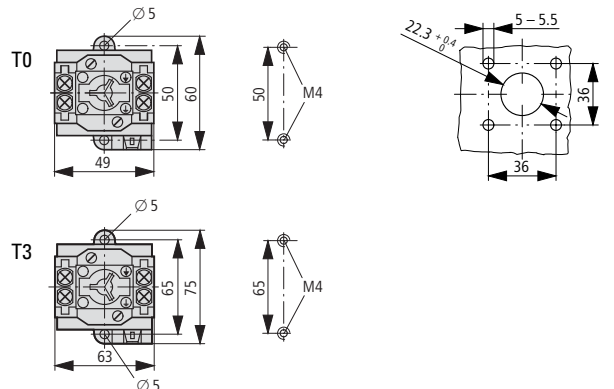
#### Rear mounting main switches

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

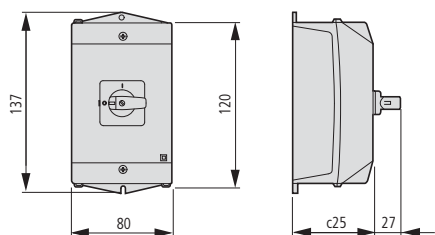
# 4/102 Cam switches, switch-disconnectors

## Cam switches

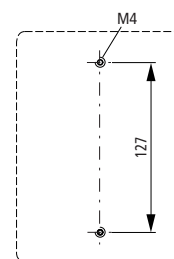
### T0, T3

#### Surface mounting

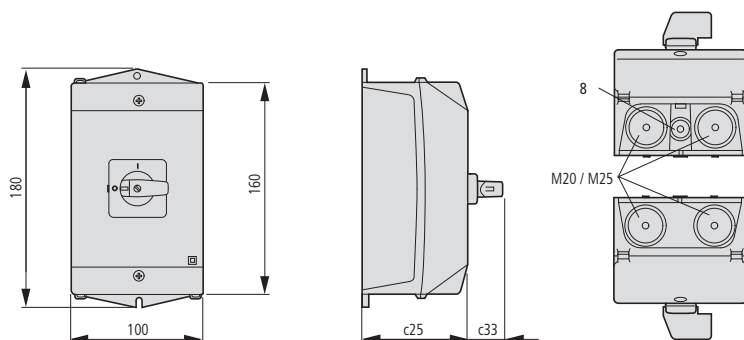
T0.../11



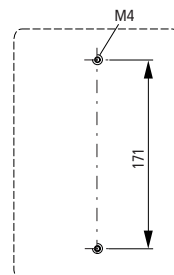
Drilling dimensions base



T3.../12

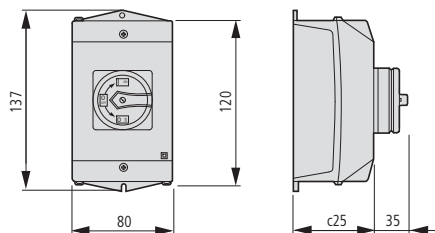


Drilling dimensions base

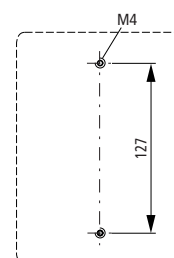


#### Surface mounting main switches

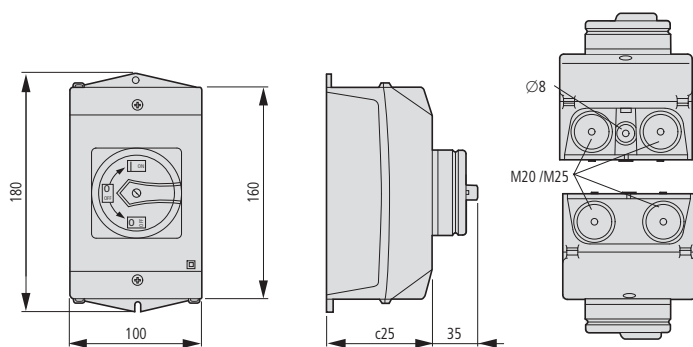
T0.../11/padlock facility



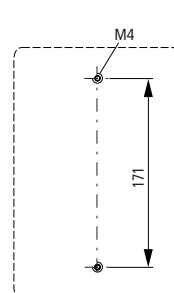
Drilling dimensions base



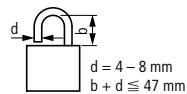
T3.../12/SVB



Drilling dimensions base



≅ 3 padlocks

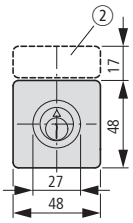


Part no.	c25
T0-1...	75
T0-2...	75
T0-3...	95
T0-4...	95

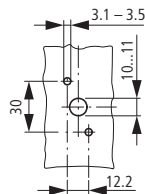
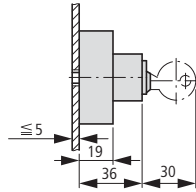
Part no.	c25	c33
T3-1...	80	27
T3-2...	80	27
T3-3...	100	35
T3-4...	100	35
T3-5...	145	35

#### Key operated lock mechanism

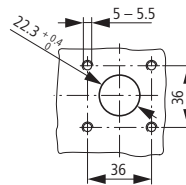
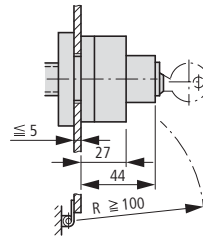
S-T0  
S-SOND...-T0



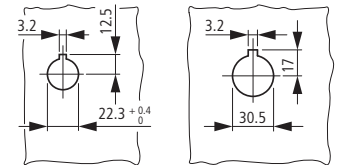
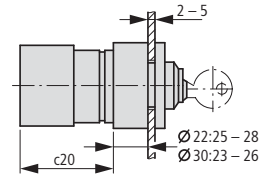
T0.../E(I1) + S-(SOND-)T0  
T3.../E(I2) + S-(SOND-)T0



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

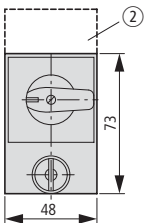


T0.../EZ = T0.../E + EZ-T0 + S-(SOND-)T0  
T3.../EZ = T3.../E + EZ-T0 + S-(SOND-)T0

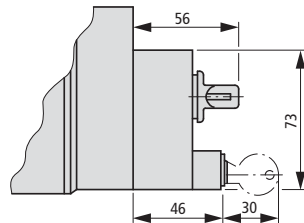


#### Cylinder lock

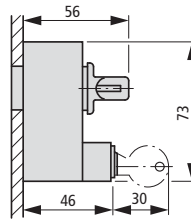
SVA-T3



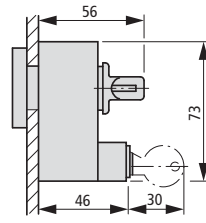
T0.../I1/SVA  
T3.../I2/SVA  
P1.../I2/SVA



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

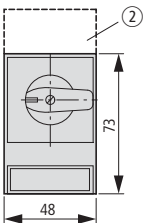


T0.../Z/SVA...  
T3.../Z/SVA...  
P1.../Z/SVA

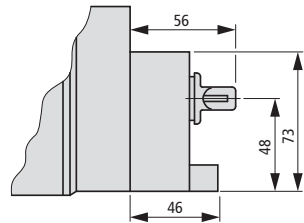


#### Padlocking feature

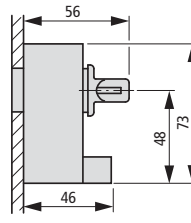
SVC-T3



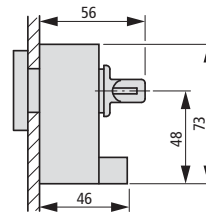
T0.../I1/SVC  
T3.../I2/SVC  
P1.../I2/SVC



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



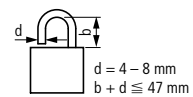
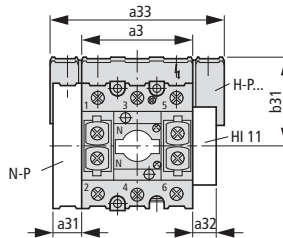
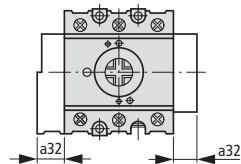
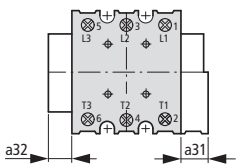
T0.../Z/SVC...  
T3.../Z/SVC...  
P1.../Z/SVC



#### 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

# 4/104 Cam switches, switch-disconnectors

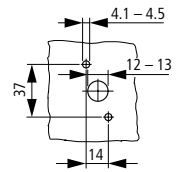
## Cam switches

### T5B, T5

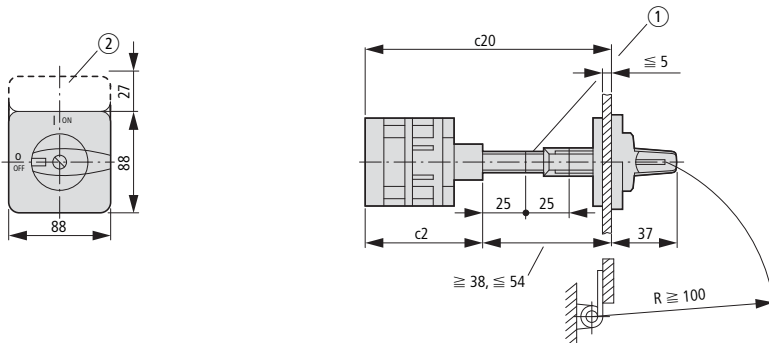
#### Flush mounting T5(B).../E



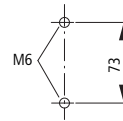
#### Drilling dimensions door



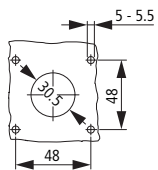
#### Rear mounting T5(B).../Z



#### Drilling dimensions base

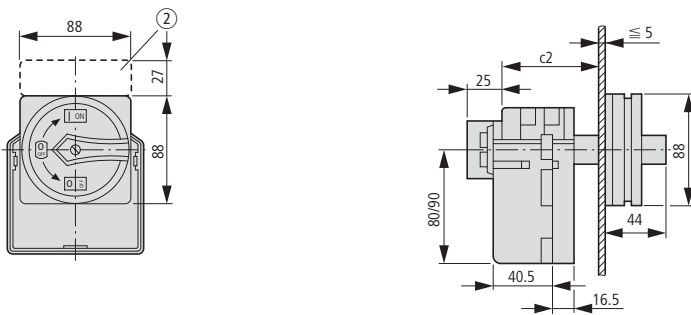


#### Drilling dimensions door

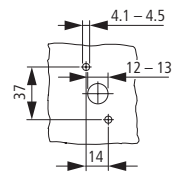


① Shaft extension possible with ZAV-P3 F 4 x 25 = 100 mm

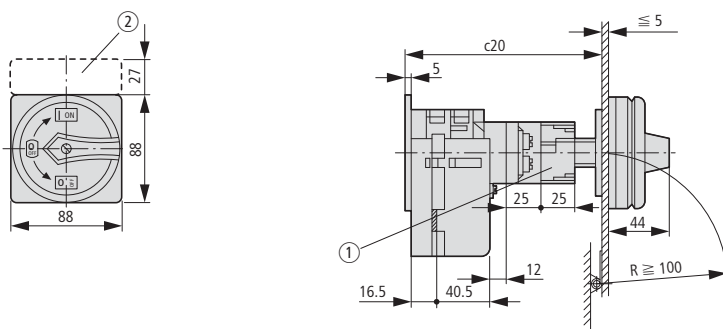
#### Flush mounting main switches T5(B).../EA/SVB



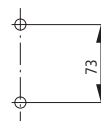
#### Drilling dimensions door



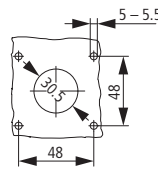
#### Rear mounting main switches T5(B).../V/SVB



#### Drilling dimensions base



#### Drilling dimensions door



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

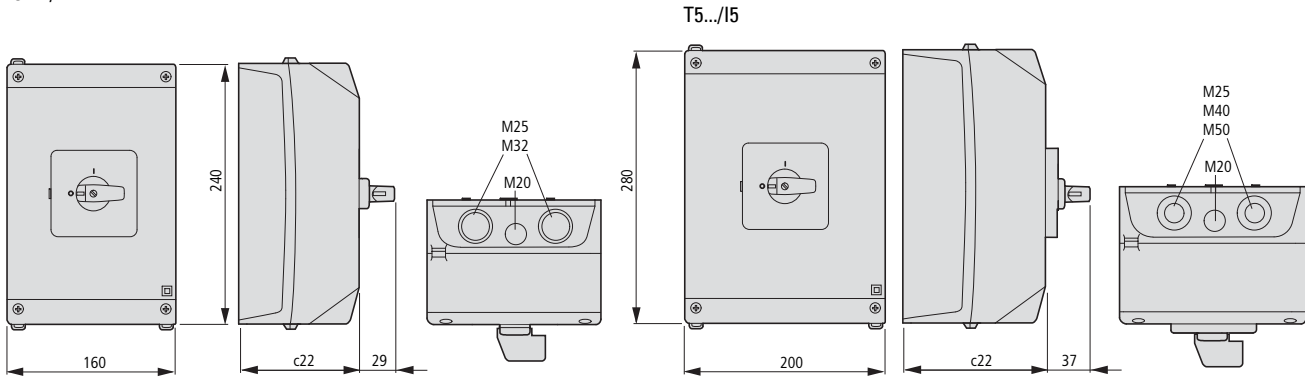
Depth of one contact unit: 16.5 mm

① Extension possible with ZVV-P3, ≦ 4 x 25 = 100 mm

② Not included as standard

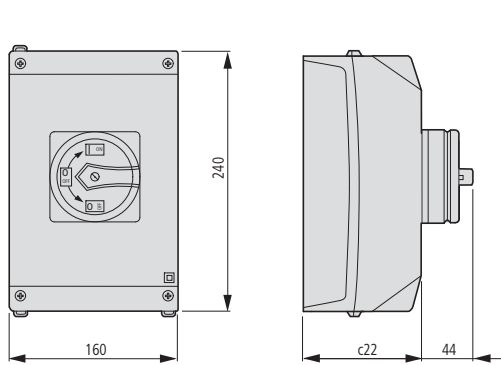
Cam switches T5B and T5 have identical designs, only their contacts are different

**Surface mounting**  
T5B.../I4

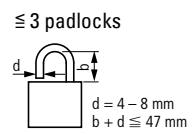


**Surface mounting main switches**

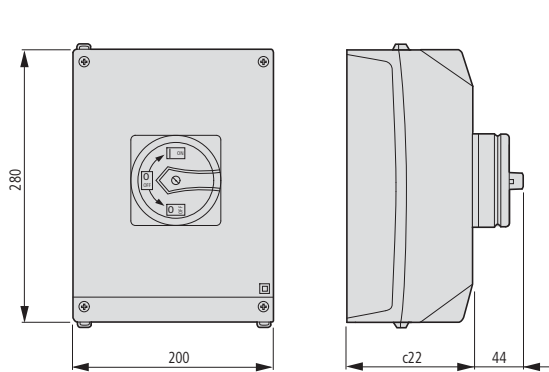
T5B.../I4/SVB



Drilling dimensions



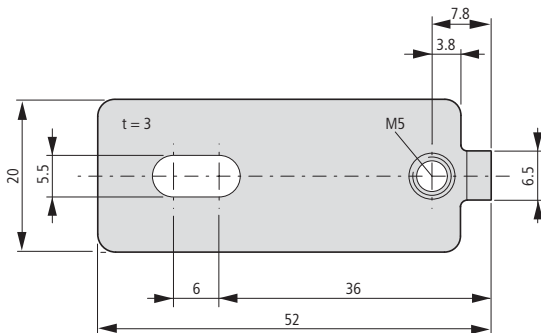
T5.../I5/SVB



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

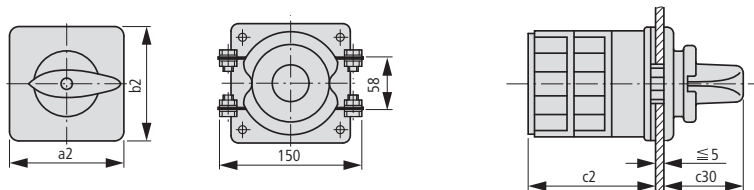
# 4/106 Cam switches, switch-disconnectors

## Cam switches

### T6, T8

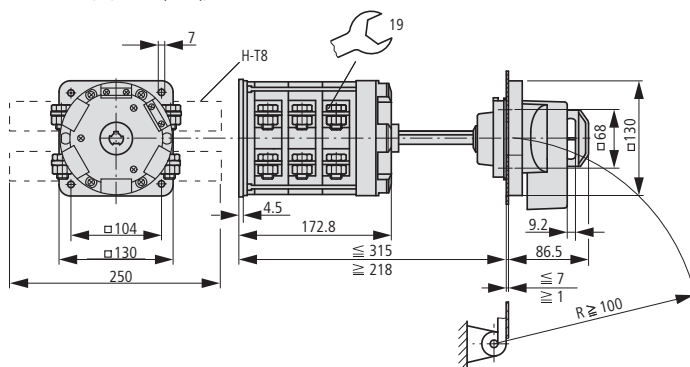
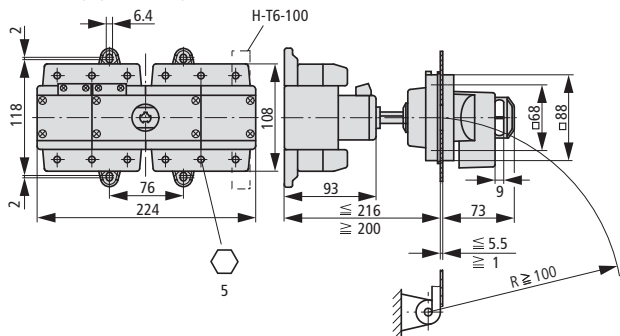
#### Flush mounting

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



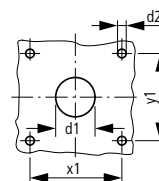
T6-160-6/V/SVB-SW/HI11

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



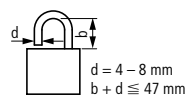
Part no.	a2	b2	c2	c30	d1	d2	x1	y1
T6-3-8212/E/HI12	88	88	152	44	∅ 26 - 30	∅ 6.0	68	68
T8-3-8212/E/HI12	130	130	173	62	∅ 22 - 25	∅ 7.0	104	104
T8-3-8342/V/SVB-(SW)/HI11	-	-	-	-	∅ 26 - 30	∅ 7.0	68	68

#### Drilling dimensions door



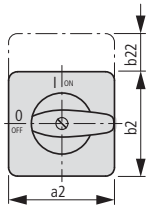
T6: 4 M5 x 20  
T8: 4 M6 x 20

#### ≤ 3 padlocks for T.../SVB



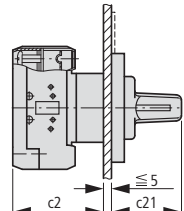
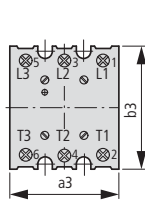
Flush mounting

P.../E



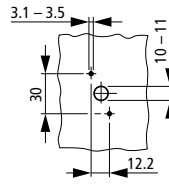
Center mounting

P1.../EZ

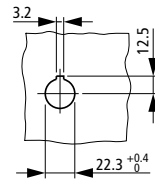


$P1.../EZ = c2 + 5 \text{ mm}$

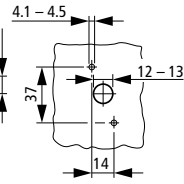
Drilling dimensions door  
P1.../E



P1.../EZ

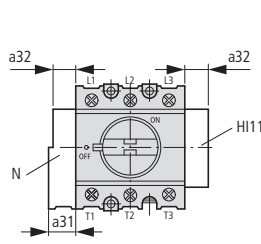
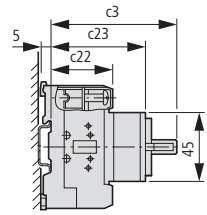
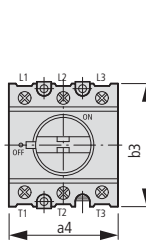


P3.../E

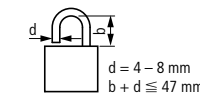


Service distribution board flush mounting

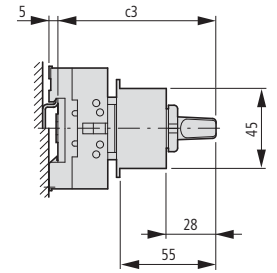
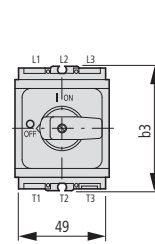
P3.../IVS



≅ 3 padlocks

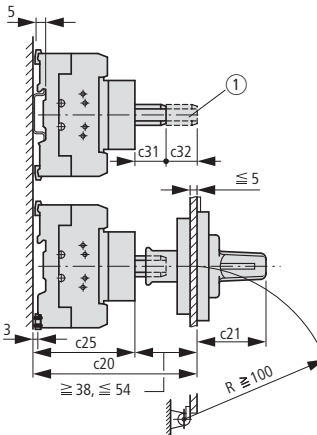
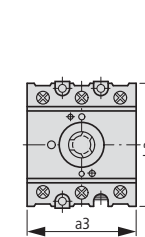
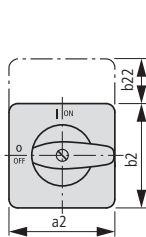


P1.../IVS

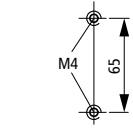


Rear mounting

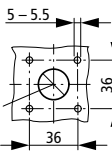
P.../Z



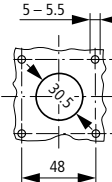
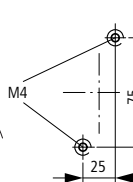
Drilling dimensions base  
P1.../Z



Drilling dimensions door



P3.../Z



① Shaft extension with ZAV-... possible  $\leq 4 \times 25 = 100 \text{ mm}$

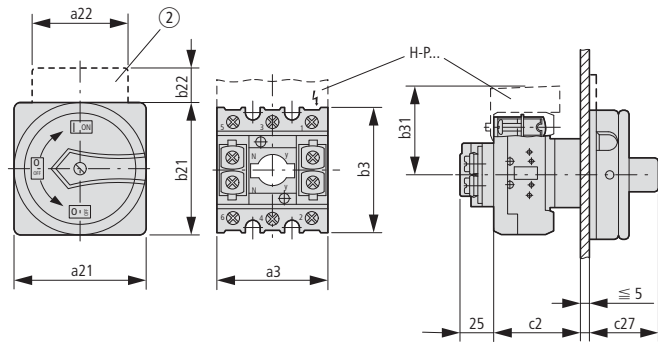
Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1	48	49	53.5	65	48	87	15	15	83	48	70	65	17	180	32	49
P3	87	72	71.5	87	87	125	18	15	114	87	83	87	27	175	-	60

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



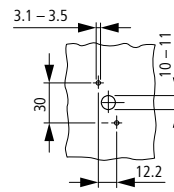
#### Flush mounting main switches

P.../EA/SVB

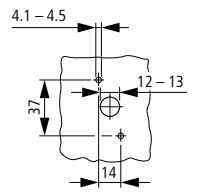


Drilling dimensions door

P1...

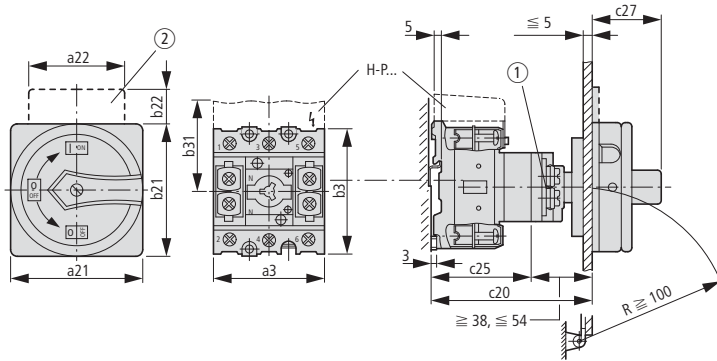


P3



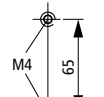
#### Rear mounting main switches

P.../V/SVB

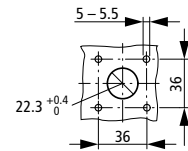


Drilling dimensions base

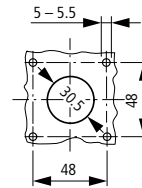
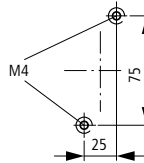
P1/V/SVB



Drilling dimensions door



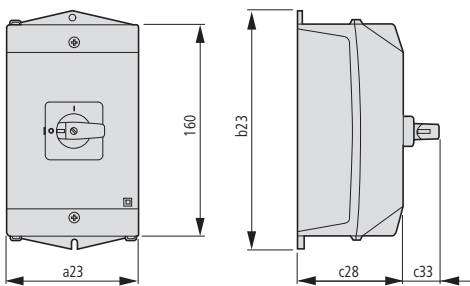
P3/V/SVB



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

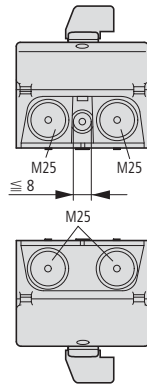
#### Surface mounting

P1.../I2

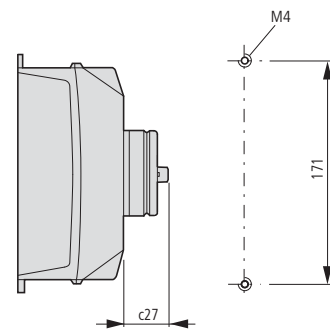


#### Surface mounting main switches/safety switches

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



Drilling dimensions

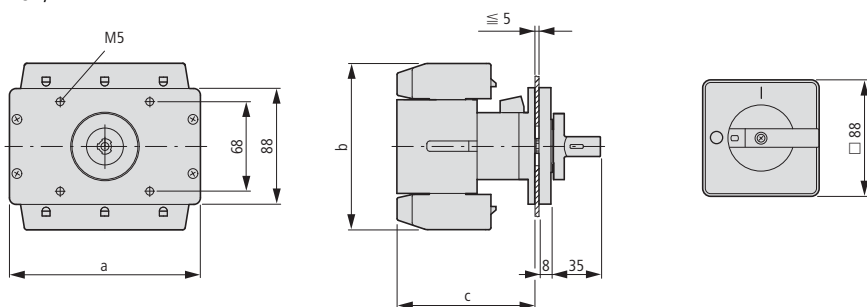


Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P1.../I2	48	49	53.5	65	48	100	15	15	83	48	70	65	17	180	35.5	49

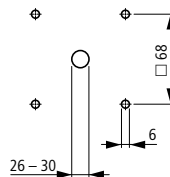
Part no.	c2	c3	c20 $\cong/\cong$	c20 with $\cong 4$ ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P1...	59	86	96 - 112	212	35	32	65	68	58	35	80	25	25	27

Flush mounting

P5.../E

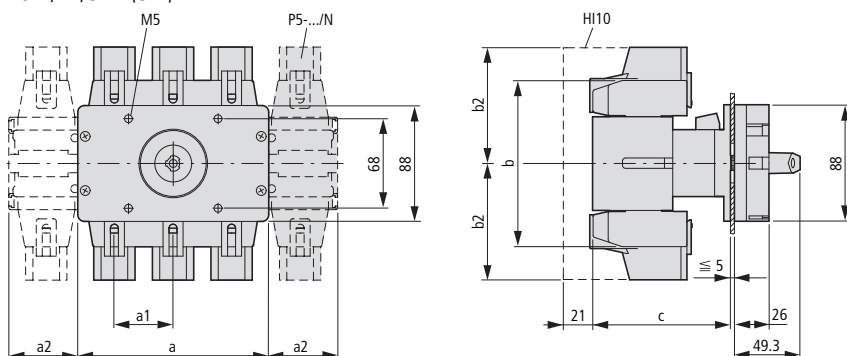


Drilling dimensions



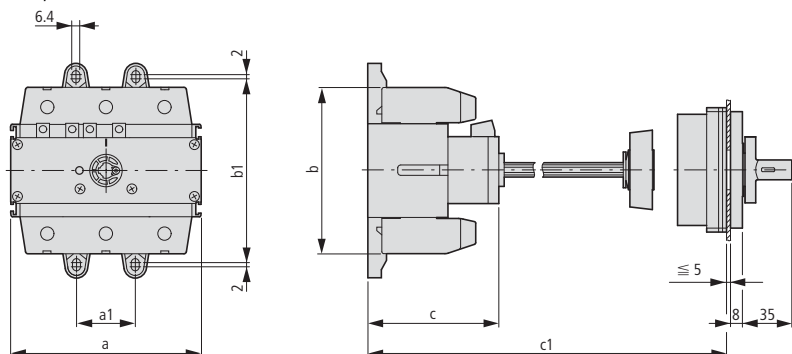
Flush mounting main switches

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

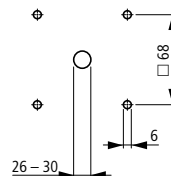


Rear mounting

P5.../Z

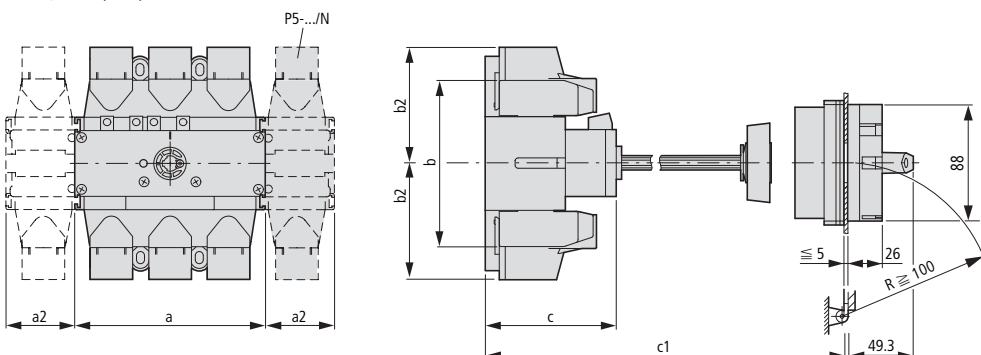


Drilling dimensions



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 ≤ 287
P5-250/315	145	44	52.5	126	144	88	98	≥ 140 ≤ 280

# 4/110 Cam switches, switch-disconnectors

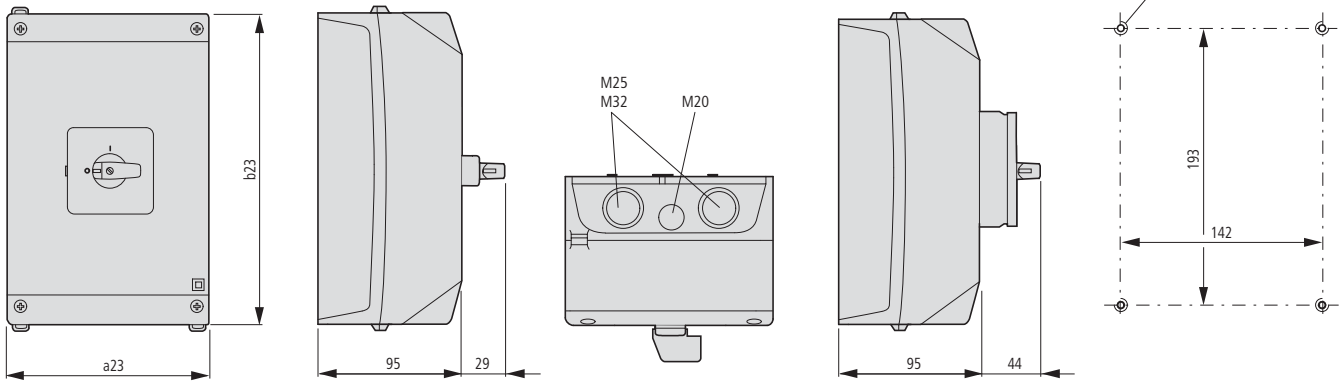
## Switch-disconnectors

### P3

Surface mounting  
P3-63/14

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

Drilling dimensions

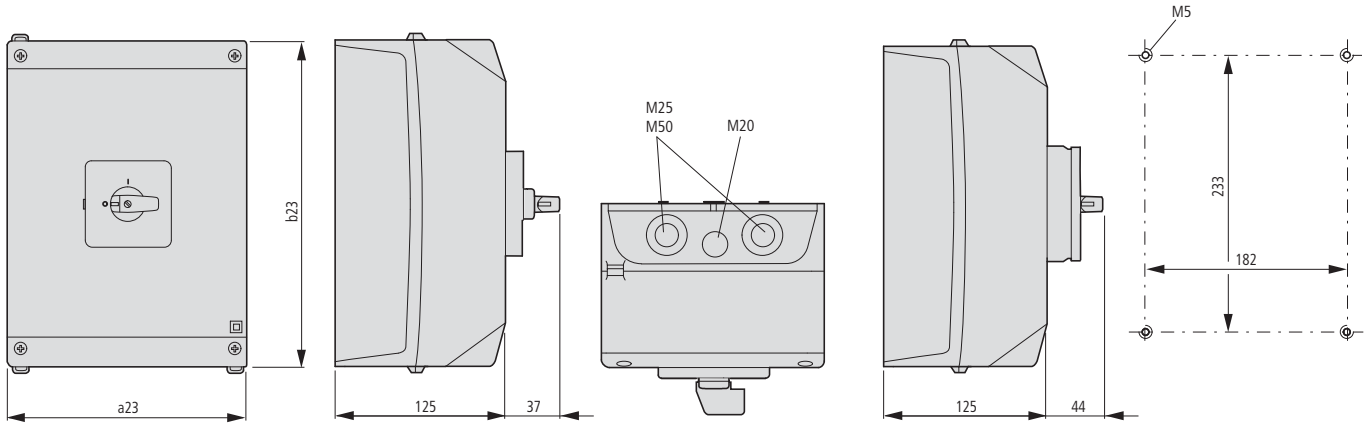


Surface mounting

P3-100/15

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

Drilling dimensions

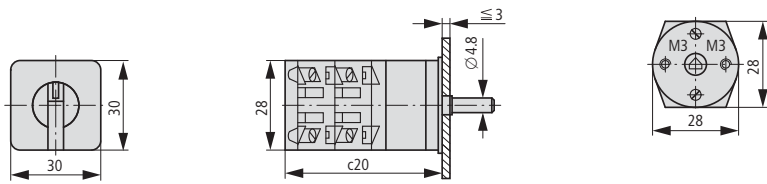


Part no.	a2	a3	a4	a21	a22	a23	a31	a32	a33	b2	b3	b21	b22	b23	b24	b31
P3-63/14	87	72	71.5	87	87	160	18	15	114	87	83	87	27	240	35.5	60
P3-100/15	87	72	71.5	87	87	200	18	15	114	87	83	87	27	280	35.5	60

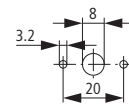
Part no.	c2	c3	c20 ≅/≅	c20 with ≅ 4 ZAV/ZVV	c21	c22	c23	c24	c25	c27	c28	c31	c32	c33
P3-63	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37
P3-100	59	82	103 – 118	218	37	41	63	81	65	44	125	25	25	37

Flush mounting

TM.../E



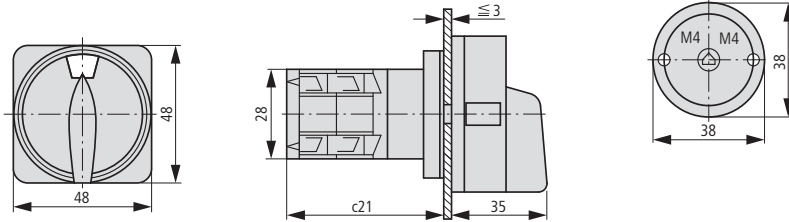
Drilling dimensions



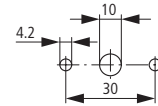
Control circuit isolators

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

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

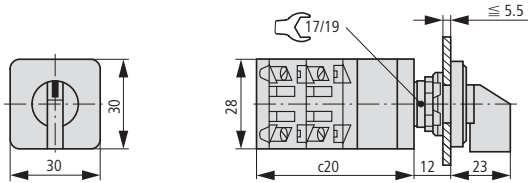


Drilling dimensions

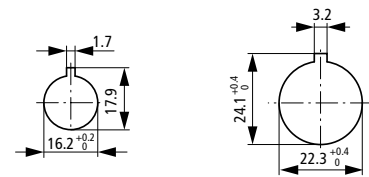


Center mounting

TM-.../EZ

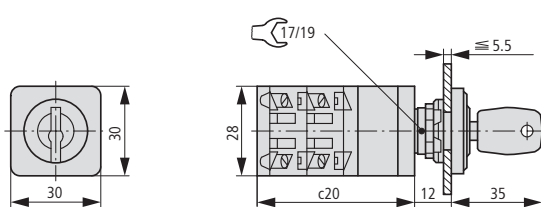


Drilling dimensions<sup>1)</sup>

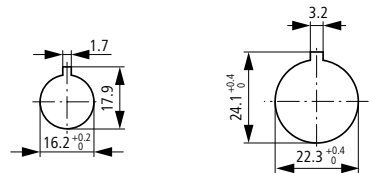


Center mounting with key operation

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



Drilling dimensions<sup>1)</sup>

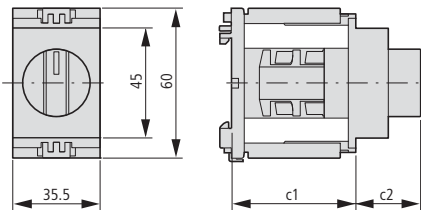


Part no.	c20	c21
TM-1	39	42
TM-2	51	54
TM-3	63	66
TM-4	75	
TM-5	87	
TM-6	99	
TM-7	111	
TM-8	123	

Depth of one contact unit: 12 mm

Service distribution board mounting

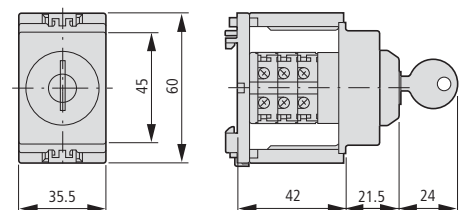
TM-.../IVS



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

Depth of one contact unit 12 mm

TM-.../IVS/S



Notes

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