THE DATASHEET OF

4430.2196

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products.

Approval Reference Type: TA45

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40019880
	UL Approvals	UL	UR File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2024010307710411

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)
	Designed according to	UL 1077	Standard for Supplementary Protectors for Use in Electrical Equipment
	Designed according to	CSA C22.2 No. 235	Supplementary Protectors
	Designed according to	GB 17701	Circuit-breaker for equipment

Application standards

Application standards where the product can be used

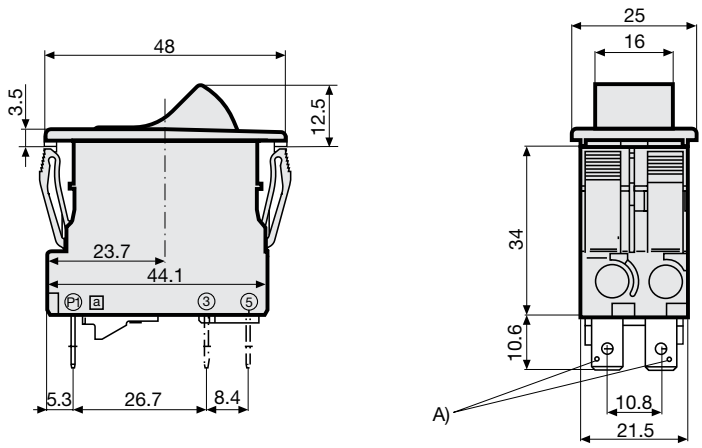
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

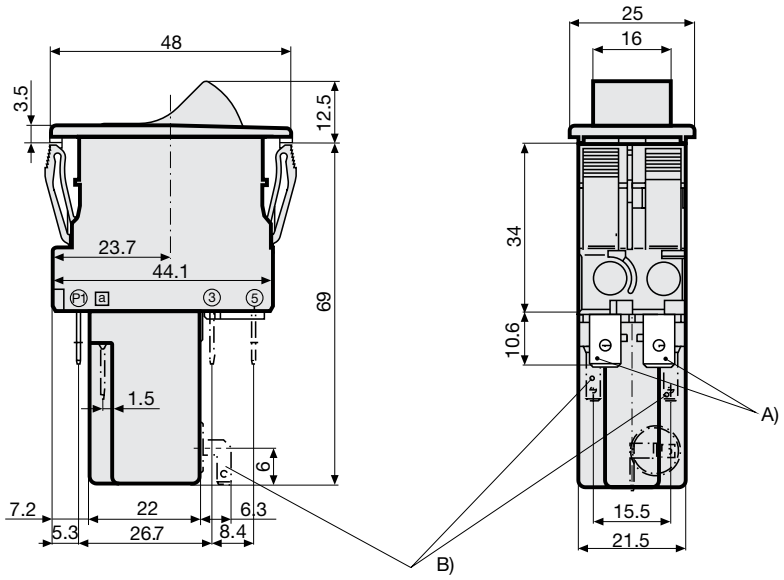
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

Dimension [mm]
Quick connect terminal



A) Quick connect terminal, IEC 61210, A6.3-0.8 mm

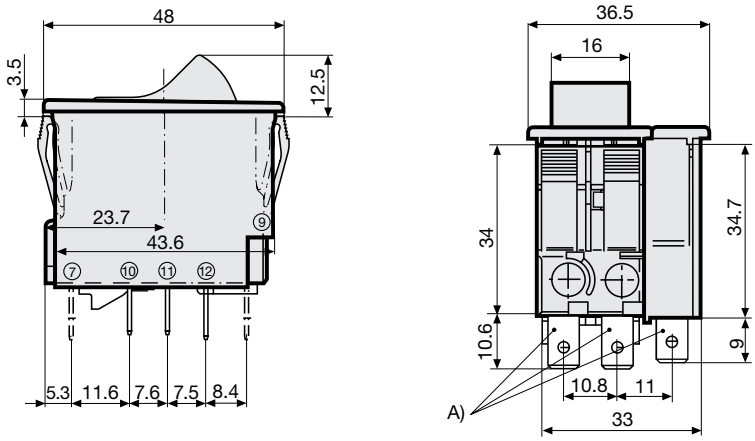
Undervoltage release, remote trip release



A) Quick connect terminal, IEC 61210, A6.3-0.8 mm

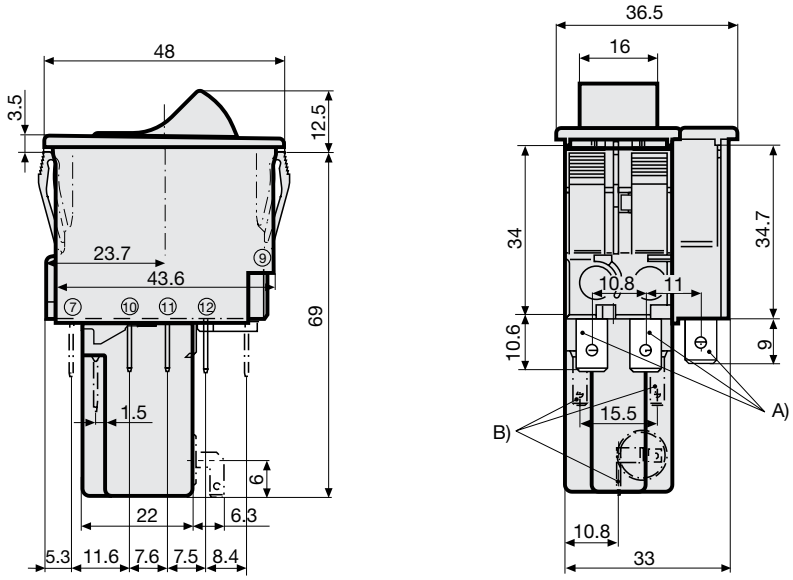
B) Quick connect terminal, IEC 61210, A2.8-0.8 mm

Quick connect terminal with auxiliary contact



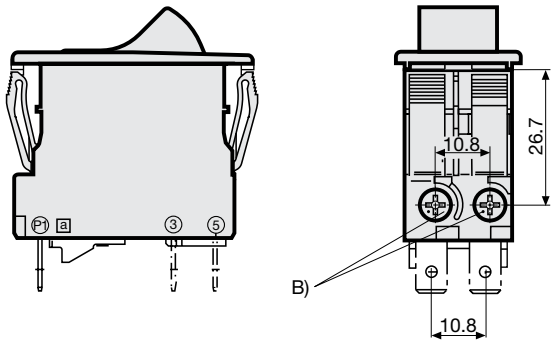
A) Quick connect terminal, IEC 61210, A6.3-0.8 mm

Undervoltage release, remote trip release, auxiliary contact



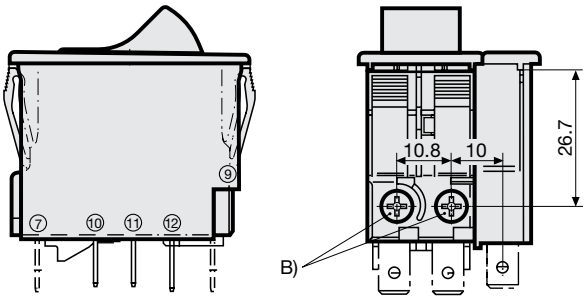
A) Quick connect terminal, IEC 61210, A6.3-0.8 mm B) Quick connect terminal, IEC 61210, A2.8-0.8 mm

Screw terminal



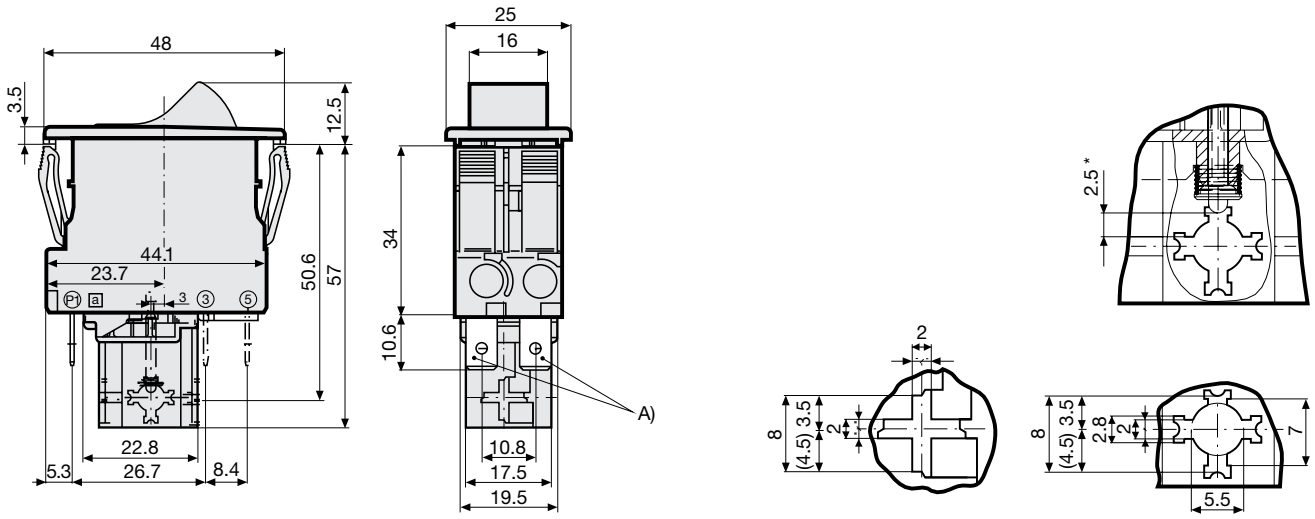
B) Screw type M3, 5x6 (Philips Form H), maximum torque 1 Nm

Screw clamp terminal with auxiliary contact



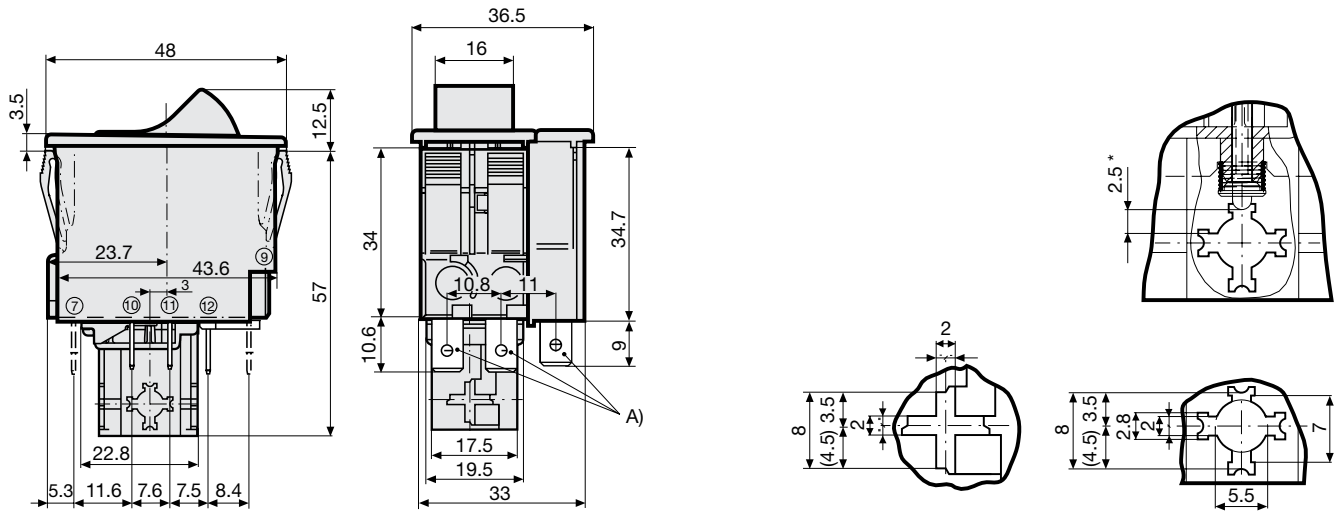
B) Screw type M3, 5x6 (Philips Form H), maximum torque 1 Nm

Mechanical lock-out latch



A) Quick connect terminal, IEC 61210, A6.3-0.8 mm
*) max. switching stroke

Mechanical lock-out latch with auxiliary contact

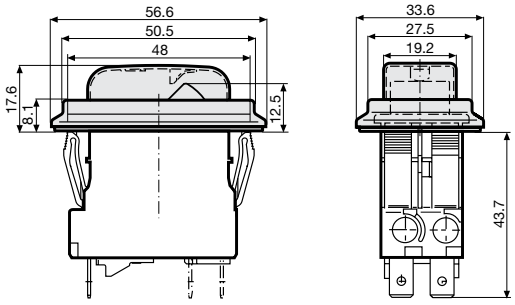


A) Quick connect terminal, IEC 61210, A6.3-0.8 mm
*) max. switching stroke

TA45 2 pole Rocker

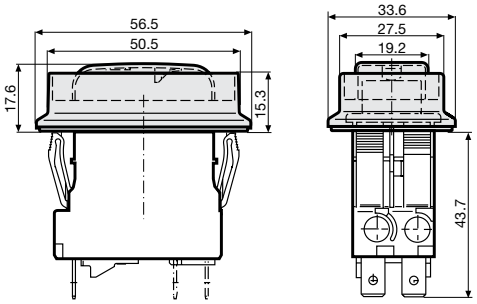
Accessories / factory mounted

AZM01 / Collar with cover, IP54

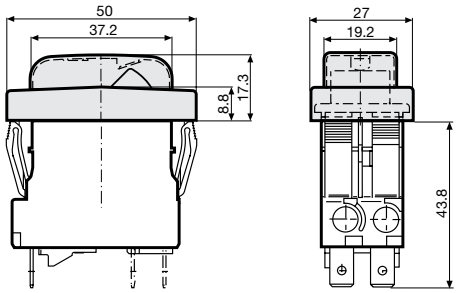


AZM02 / Raised collar with cover, narrow, IP54

AZM03 / Raised collar, IP40

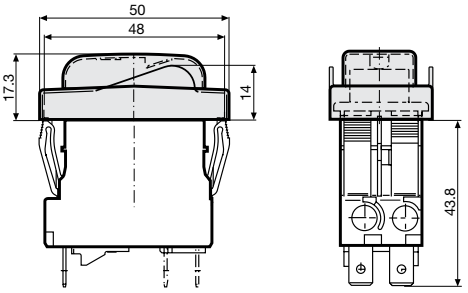


AZM10 / Collar with cover, narrow, IP54

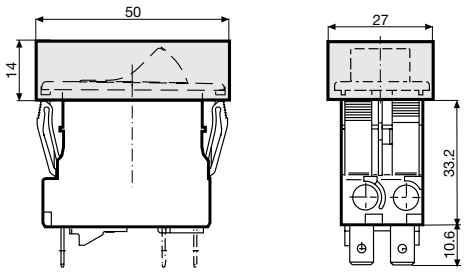


AZM11 / Partially raised collar with cover, narrow, IP54

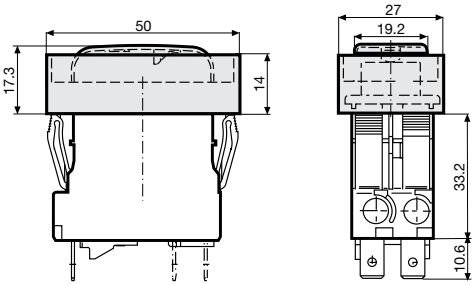
AZM12 / Partially raised collar without cover, narrow, IP40



AZM13 / Raised collar narrow, IP40

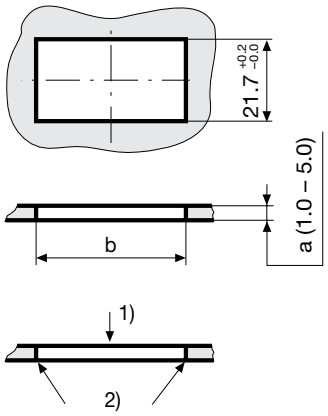


AZM14 / Raised collar with cover narrow, IP54



Cut-out and pin-out

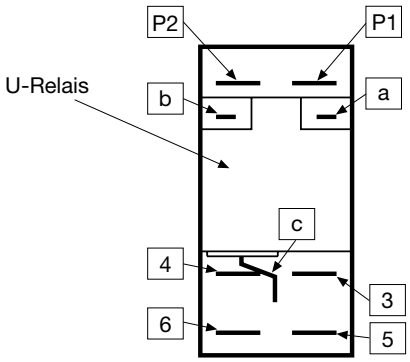
Cut-out snap-in type
Basic type



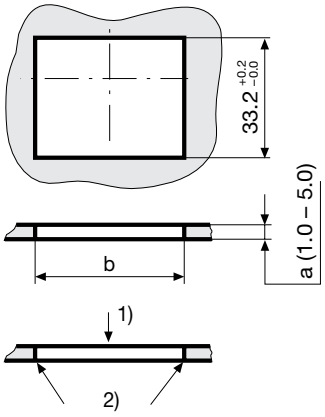
a	b
1.0	44,5...45,0
1.5	44,5...45,0
2.0	44,7...45,2
2.5	44,7...45,2
3.0	44,8...45,3
4.0	44,9...45,4
5.0	45,0...45,5

1) Assemble
2) edge must be sharp

Pin-out
Basic type



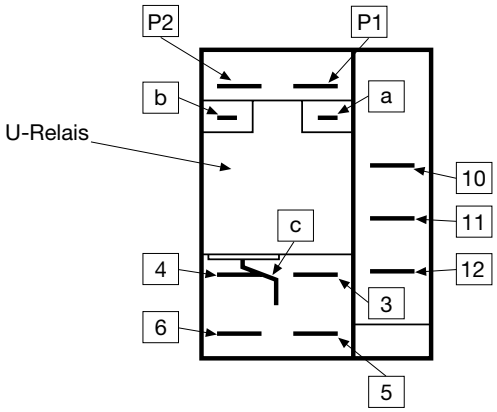
Cut-out snap-in type
With auxiliary contact



a	b
1.0	44,5...45,0
1.5	44,5...45,0
2.0	44,7...45,2
2.5	44,7...45,2
3.0	44,8...45,3
4.0	44,9...45,4
5.0	45,0...45,5

1) Assemble
2) edge must be sharp

Pin-out
With auxiliary contact



Effect of ambient temperature

The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

Ambient Temperature [°C]	Correction factor
-10	0.89
-5	0.91
0	0.92
+23	1.00
+30	1.03
+40	1.08
+55	1.16

Example: With a nominal current of 5A and an ambient temperature of 40°C, a correction factor of 1.08 results. This results in a nominal current of 5.5 A, which is rounded up to the next higher nominal current 6 A.

Auxiliary contact (changeover)

Rated Voltage	28 VDC	60 VDC	240 VAC
Rated current	max. 10 A resistive load	max. 2 A resistive load	max. 2 A cos φ 0.7

Undervoltage release

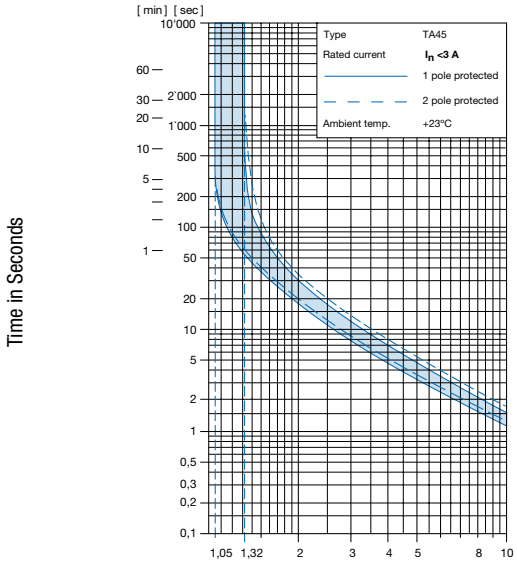
Max. operating voltage						1.1 Ue
Rated operating voltage Ue	5 V	12 V	24 V	48 V	120 V	240 V
Current consumption (± 10%)	10.5 mA	16.5 mA	17.0 mA	3.2 mA	3.7 mA	3.1 mA
Highest reset level	0.85 Ue	0.85 Ue	0.85 Ue	0.85 Ue	0.85 Ue	0.85 Ue
Lowest trip level	0.20 Ue	0.20 Ue	0.20 Ue	0.20 Ue	0.20 Ue	0.20 Ue
Trip delay	20 ms - 50 ms	20 ms - 50 ms	20 ms - 50 ms	20 ms - 50 ms	20 ms - 50 ms	20 ms - 50 ms
Impulse withstand voltage (1.2 / 50 µs)	≥4 kV	≥4 kV	≥4 kV	≥4 kV	≥4 kV	≥4 kV

Remote trip

Permissible impuls duration of the make contact (no)	Between terminal C and P1	unlimited
Electrical load of the make contact (no)	Current max. 12 mA / power max. 1.1 W	

Time-Current-Curves

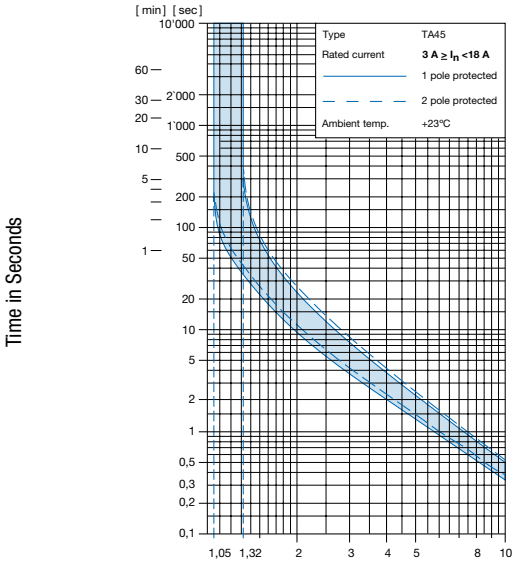
Rated Current In <3 A



Multiple of Rated Current In

Ambient temperature +23°

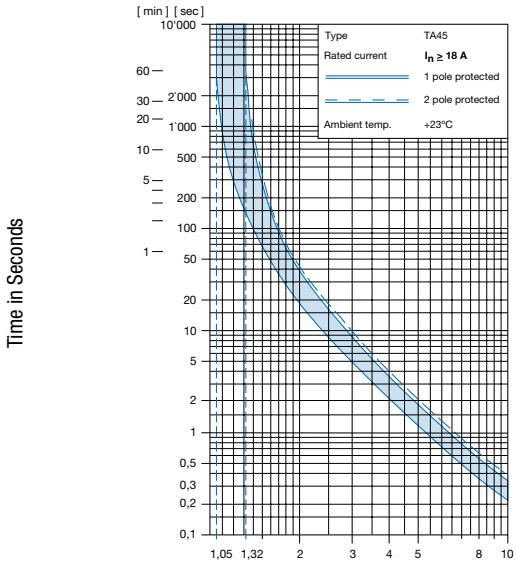
Rated Current 3 A ≥ In <18 A



Multiple of Rated Current In

Ambient temperature +23°

Rated Current In ≥18 A



Ambient temperature +23°

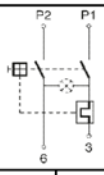
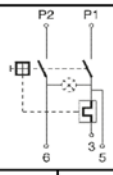
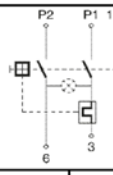
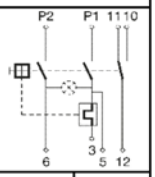
Order number key

T	A	4	5	-	A	B	T	W	F	2	0	0	U	2	-	7	0	1	-	A	Z	M	0	1
					1			2	3		4			5			6*				7*				

* These characters are omitted for standard products and serve as placeholder for customised applications.

Basic function 1

Auxiliary contact (changeover contact)		
Shunt terminal		
Schematic drawing		
Terminal type	Quick connect terminal	
	Screw terminal (lineside P1,P2)	
Snap-in type		
ON/OFF switch	Without illumination	
	With illumination	220V…240V
		110V…120V
		20V…26V
		10V…13V
		4V…7V
Impulse switch		

1 pole thermal overload protection							
		•		•		•	
	•		•		•		•
							
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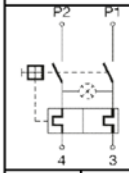
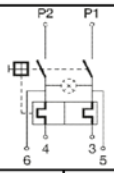
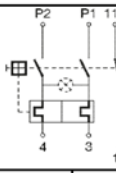
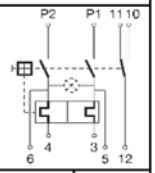
	•		•		•		•
•	•	•	•	•	•	•	•
ABT	AHT	ABF	AHF	APT	AST	APF	ASF
A12	A62	A22	A72	AL2	A2L	AM2	A2M
A14	A64	A24	A74	AL4	A4L	AM4	A4M
A17	A67	A27	A77	AL7	A7L	AM7	A7M
A18	A68	A28	A78	AL8	A8L	AM8	A8M
A19	A69	A29	A79	AL9	A9L	AM9	A9M
AET	AJT	AEF	AJF	ART	AUT	ARF	AUF

Auxiliary contact (changeover contact)		
Shunt terminal		
Schematic drawing		
Terminal type	Quick connect terminal	
	Screw terminal (lineside P1,P2)	
Snap-in type		
ON/OFF switch	Without illumination	
	With illumination	220V…240V
		110V…120V
		20V…26V
		10V…13V
		4V…7V
Impulse switch		

2 pole thermal overload protection							
		•		•		•	
	•		•		•		•
							
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	•		•		•		•
•	•	•	•	•	•	•	•
ABD	AHD	ABG	AHG	APD	ASD	APG	ASG
A32	A82	A42	A92	AN2	A2N	AP2	A2P
A34	A84	A44	A94	AN4	A4N	AP4	A4P
A37	A87	A47	A97	AN7	A7N	AP7	A7P
A38	A88	A48	A98	AN8	A8N	AP8	A8P
A39	A89	A49	A99	AN9	A9N	AP9	A9P
AED	AJD	AEG	AJG	ARD	AUD	ARG	AUG

T	A	4	5	-	A	B	T	W	F	2	0	0	U	2	-	7	0	1	-	A	Z	M	0	1
					1			2	3		4			5			6*				7*				

Front- & Actuation color 2

Front Bezel	Rocker without illumination	Rocker with illumination		
black	-	clear transparent	=	1
black	-	red transparent	=	3
black	-	green transparent	=	4
black	-	orange transparent	=	6
black	black	-	=	B
black	green	-	=	G
black	red	-	=	R
black	white	-	=	W
black	orange	-	=	X
black	yellow	-	=	Y

Rocker legend, marking 3

— o	Embossed	=	F
ON OFF	Printed white	=	H
	Printed black	=	K
— o	Printed white	=	L
	Printed black	=	M
I 0	Printed white	=	P
	Printed black	=	R
ON — o OFF	Printed white	=	S
	Printed black	=	T

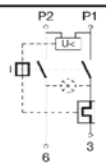
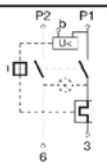
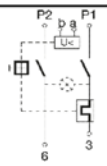
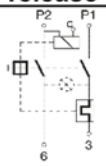
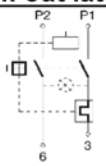
Rated Current In [A] 4

Thermal overload protection

In			In			In			In		
0.05 A	=	Z05	1.4 A	=	J14	4.0 A	=	040	9.0 A	=	090
0.10 A	=	J01	1.5 A	=	J15	4.2 A	=	042	9.5 A	=	095
0.15 A	=	Z15	1.6 A	=	J16	4.4 A	=	044	10.0 A	=	100
0.20 A	=	J02	1.7 A	=	J17	4.5 A	=	045	10.5 A	=	105
0.25 A	=	Z25	1.8 A	=	J18	4.7 A	=	047	11.0 A	=	110
0.30 A	=	J03	1.9 A	=	J19	5.0 A	=	050	11.5 A	=	115
0.35 A	=	Z35	2.0 A	=	J20	5.2 A	=	052	12.0 A	=	120
0.40 A	=	J04	2.1 A	=	J21	5.5 A	=	055	12.5 A	=	125
0.45 A	=	Z45	2.2 A	=	J22	5.7 A	=	057	13.0 A	=	130
0.50 A	=	J05	2.3 A	=	J23	6.0 A	=	060	13.5 A	=	135
0.60 A	=	J06	2.5 A	=	J25	6.2 A	=	062	14.0 A	=	140
0.70 A	=	J07	2.8 A	=	J28	6.5 A	=	065	14.5 A	=	145
0.80 A	=	J08	2.9 A	=	J29	7.0 A	=	070	15.0 A	=	150
0.90 A	=	J09	3.0 A	=	030	7.1 A	=	071	16.0 A	=	160
1.00 A	=	J10	3.2 A	=	032	7.2 A	=	072	17.0 A	=	170
1.10 A	=	J11	3.5 A	=	035	7.5 A	=	075	18.0 A	=	180
1.20 A	=	J12	3.7 A	=	037	8.0 A	=	080	19.0 A	=	190
1.30 A	=	J13	3.8 A	=	038	8.5 A	=	085	20.0 A	=	200

T	A	4	5	-	A	B	T	W	F	2	0	0	U	2	-	7	0	1	-	A	Z	M	0	1
					1			2	3		4			5			6*				7*				

Undervoltage release, Remote trip release, Mechanical lock-out latch 5

Rated voltage	Undervoltage release			Remote trip release	Mechanical lock-out latch	Without release or mechanical lock-out latch
AC (V)						
240	U2	E2	Z2	A2	S0	C0
230	U3	E3	Z3	A3		
120	U4	E4	Z4	A4		
AC/DC (V)						
48	U6	E6	Z6	A6		
24	U7	E7	Z7	A7		
12	U8	E8	Z8	A8		
5	U9	E9	Z9			

** Schematic drawings: 1-pole protected version shown only*

Special marking 6

Standard	=	(empty)
Special marking (XXX = placehoder)	=	XXX

T	A	4	5	-	A	B	T	W	F	2	0	0	U	2	-	7	0	1	-	A	Z	M	0	1
					1			2	3		4			5			6*				7*				

Accessories, factory-mounted (optional) 7

Please note: factory-mounted accessories are only available for configurations without auxiliary contact.

Without accessory	=	(empty)
Collar with cover, IP54	=	AZM01
Raised collar with cover, IP54	=	AZM02
Raised collar, IP40	=	AZM03
Raised collar with cover narrow, IP54	=	AZM10
Partially rasied collar with cover, narrow, IP54	=	AZM11
Partially raised collar without cover, narrow, IP40	=	AZM12
Raised collar narrow, IP40	=	AZM13
Raised collar with cover, narrow, IP54	=	AZM14

Accessories

	Description
	TA45-ACC Accessories to TA45

08.01.2025

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