

4435.0690 Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 4435.0690-DG SCHURTER Inc. 4435.0690 TA35 CIRCUIT BREAKER 2P RO 8A Circuit Breaker AC DC

https://www.DiGi-Electronics.com



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DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer:
SCHURTER Inc.
Product Status:
Active

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	Not Applicable
ECCN:	HTSUS:
EAR99	8536.20.0020

Thermal (T- and TA-Line) https://www.schurter.com /PG17_20 TA35 Rocker 1Pole

Circuit Breaker for Equipment thermal, Rocker actuation, 1 pole



Non-illuminated black



illuminated Green transparent

Description

- Thermal circuit breaker
- 1-pole
- Snap-in version
- Positively trip-free release
- Method of operation acc. to IEC: S-type
- Different rocker colours
- Wide current range
- Unique Selling Proposition
- Unique UL rating of 277 VAC
- Finely graded rated currents
- High configurability (rocker colours, lettering, illumination)
- IP65 with optional cover

See below: Approvals and Compliances

Applications

- Power tools
- Medical and laboratory equipment
- Industrial appliances
- Equipment for construction
- Cleaning equipment
- Commercial and household kitchen appliances
- Industrial Power
- Industrial lighting arrays

Other versions on request

- White front cover

References

Weblinks

pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Product News

Technical Data			
Rated Voltage AC	IEC: 240 VAC	Overload	IEC: min. 40 trips
	UL/CSA : 277 VAC		@ 6 x lr, cos φ 0.6
Rated Voltage DC	32 VDC		UL / CSA: min. 50 trips
Rated current range AC	0.05 - 20 A		@ 1.5 x lr, cos φ 0.75
Conditional short circuit capa-	IEC 60934: 0.0520 A: 2 kA, SC (C1)	Allowable Operation Temp.	-30 °C to 60 °C
city Inc	@ 240 VAC	Storage Temperature	-40 °C to 60 °C
Degree of Protection	front side IP40 acc. to IEC 60529	Vibration Resistance	± 0.75 mm @ 10 - 60 Hz
Dielectric Strength	50Hz: > 2.5 kV		acc. to IEC 60068-2-6, test Tc
0	Impulse 1.2/50 μ s: > 4 kV		10 G @ 60 - 500 Hz
Insulation Resistance	500 VDC > 100 MΩ		acc. to IEC 60068-2-6, test Tc
Lifetime	mechanical: 50'000 switching cycles	Shock Resistance	30 G / 18ms
2	AC: 1 x lr, $\cos \varphi$ 0.6:		acc. to IEC 60068-2-27, test Ea
	30'000 switching cycles	Tripping Type	Thermal
	DC: 1 x lr, $L/R = 2 - 3$ ms:	Actuation Type	Rocker
	50'000 switching cycles	Weight	16.5 - 18.5g

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

TA35 Rocker 1 Pole

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: TA35

Approval Logo	Certificates	Certification Body	Description
<u>NE</u>	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FL us	UL Approvals	UL	UR File Number: E71572
	CCC Approvals	CCC	CCC Certificate Number: 2024010307676639

Product standards

Product standards that are referenced

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		
	Designe Designed according to Designed according to Designed according to	DesignStandardDesigned according toIEC 60934Designed according toUL 1077Designed according toCSA C22.2 No. 235		

Application standards

Application standards where the product can be used

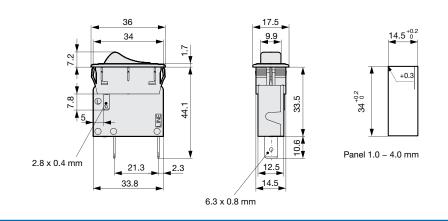
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

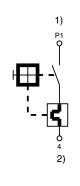
	0		
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
ROHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
5 0	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	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]

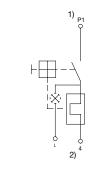


Diagrams





1-pole, 1 bimetal, illuminated



1) Line, 2) Load Codepos AAA = C2F, C4F, C7F, C8F, C9F

1) Line, 2) Load Codepos AAA = CFT, CGT

The keys / codepos are listed in the key table of the basic function for selection.

Approval		Rated current	Rated Voltage AC	Rated Voltage DC
Арргочаг	UL 1077	0.0520 A	277 V	32 V
	CSA C22.2	0.0520 A	277 V	32 V
	235			
	IEC 60934	0.0520 A	240 V	32 V
	GB 17701	0.0520 A	240 V	32 V

Typical internal resistance per pole

Rated Current [A]	Internal Resistance [Ω]
0.05	200.000
0.1	70.000
0.5	2.750
1.0	0.720
1.5	0.340
2.0	0.187
2.5	0.115
2.8	0.089
3.0	0.059
4.0	0.059
5.0	0.044
6.0	0.028
7.0	0.0142
8.0	0.0142
10.0	0.0109
12.0	0.0086
13.0 *	0.0072
14.0 *	0.0072
15.0 *	0.0056
16.0 *	0.0056
18.0 *	0.0052
20.0 *	0.0052
* 3-Pole max. 12 A	

Effect of ambient temperature

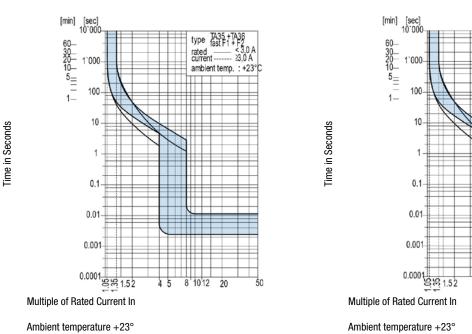
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

Ambient Temperature [°C]	Correction factor
-30	0.77
-20	0.81
0	0.90
+23	1.00
+40	1.03
+50	1.04
+60	1.06

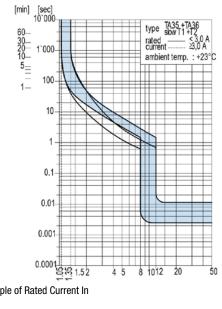
Example: Rated current = 5 A, Environmental temperature = 50 °C --> Correction factor = 1.04, Resulting current = 5.2 A --> Round to next higher rated current: 6 A

Time-Current-Curves

Tripping Characteristics thermal magnetic fast acting



Tripping Characteristics thermal magnetic time lag



Order number key



Basic	function				୍ଦ୍ଧ 1
Poles		1	2	2	3
Therma protecti	al overload ion	P1	P1 P2 0 0	P1 P2	P1 P2 P3
Illumina	ation				
Rocker	r				
Withou	t illumination	CFT	CBT	CBD	CKD
	380400 V	-	-	-	CD1
	220240 V	C2F	C12	C32	-
	110120 V	C4F	C14	C34	-
IΨ	2026 V	C7F	C17	C37	-
	1013 V	C8F	C18	C38	-
	47 V	C9F	C19	C39	-
Momer	ntary				
Withou	t illumination	CGT	CET	CED	CLD

* grey highlighted fields: configuration is not offered anymore

Front Bezel Rocker without illumination Rocker with illumination black - clear transparent = 1	
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	

TA35 Rocker 1Pole



Rocker leg	įend, marking		Q	3
- 0	Embossed	=	F	
ON	Printed white Printed black	= =	н к	
- 0	Printed white Printed black	=	L M	

Rated current [A]

Rated c		nt [A] rload prote	ection						Q	4
In			In	0	In		0	In		0
0.05 A	=	Z05	1.1 A	= J11	3.0	A =	030	8.0 A	=	080
0.10 A	=	J01	1.2 A	= J12	3.2	A =	032	8.5 A	=	085
0.15 A	=	Z15	1.3 A	= J13	3.5	A =	035	9.0 A	=	090
0.20 A	=	J02	1.4 A	= J14	3.7	A =	037	10.0 A	=	100
0.25 A	=	Z25	1.5 A	= J15	4.0	A =	040	10.5 A	=	105
0.30 A	=	J03	1.6 A	= J16	4.2	A =	042	11.0 A	=	110
0.35 A	=	Z35	1.7 A	= J17	4.5	A =	045	11.5 A	=	115
0.40 A	=	J04	1.8 A	= J18	4.7	A =	047	12.0 A	=	120
0.45 A	=	Z45	1.9 A	= J19	5.0	A =	050	13.0 A*	=	130
0.50 A	=	J05	2.0 A	= J20	5.2	A =	052	14.0 A*	=	140
0.60 A	=	J06	2.1 A	= J21	5.5	A =	055	15.0 A*	=	150
0.70 A	=	J07	2.2 A	= J22	5.7	A =	057	16.0 A*	=	160
0.80 A	=	J08	2.3 A	= J23	6.0	A =	060	17.0 A*	=	170
0.90 A	=	J09	2.5 A	= J25	6.5	A =	065	18.0 A*	=	180
1.00 A	=	J10	2.8 A	= J28	7.0	A =	070	19.0 A*	=	190
					7.5	A =	075	20.0 A*	=	200

(additional current ratings on request)

* 3-Pole max. 12 A

Features

Standard, no other features

C0

5

0

=

1 2 3 4 5 6 7 Special marking = 000 = 000 = 000 Special marking (XXX = placehoder) = XXX = 000 = XXX Accessories, factory-mounted (optional) = 7 = (blank) 7 No accessory = (blank) = CZM21 = CZM21 Transparent protection cover, 2-pole, IP65 = CZM23 Raised collar, 2-pole, IP40 = CZM24	T A 3 5] -	С	в	D	w	F	z	0	5	с	0	-	0	0	0	-	С	z	м	2	1
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	Transportant pr	otoo	tion	001/0		ith r			allor	2 -			5					_		071	100	
Raised collar, 2-pole, IP40 = CZM24	riansparent pr	olec	lion	COVE	er w		aise	u cu	Jiai	, 2 -F	ole,	IPO	0		E - I	AN		-		CZN	123	
Raised collar, 2-pole, IP40 = CZM24															1							
	Raised collar, 2	2-po	le, If	P40											2 Mil	T		=		CZN	/124	
															The second	4						
	-								•											o 		
Transparent antibacterial protection cover, 2-pole, IP65 = CZM25	Transparent an	itiba	cteri	al pr	ote	ctioi	n co	ver,	2-p	ole,	IP65)				A.		=		CZN	/125	

TA35 Rocker 1 Pole

Variants

Basic function	Rocker colour	Legend	Rated current	Accessories	Config. Code	Order Number
1-pole, 1 bimetal, without illumination	White	black printed	2.0 A	Without cover	TA35-CFTWKJ20C0-000	4435.0029
1-pole, 1 bimetal, without illumination	White	embossed	3.0 A	Without cover	TA35-CFTWF030C0-000	4435.0019
1-pole, 1 bimetal, without illumination	White	black printed	3.0 A	Without cover	TA35-CFTWM030C0-000	4435.0082
1-pole, 1 bimetal, illuminated 120 V	Red transparent	white printed	3.0 A	Without cover	TA35-C4F3H030C0-000	4435.0431
1-pole, 1 bimetal, without illumination	Red	black printed	3.0 A	Without cover	TA35-CFTRM030C0-000	4435.0481
1-pole, 1 bimetal, without illumination	Black	embossed	4.0 A	Without cover	TA35-CFTBF040C0-000	4435.0028
1-pole, 1 bimetal, without illumination	Black	embossed	5.0 A	Without cover	TA35-CFTBF050C0-000	4435.0173
1-pole, 1 bimetal, without illumination	Black	white printed	5.0 A	Without cover	TA35-CFTBH050C0-000	4435.0204
1-pole, 1 bimetal, without illumination	Black	white printed	6.0 A	Without cover	TA35-CFTBH060C0-000	4435.0205
1-pole, 1 bimetal, without illumination	Red	embossed	10.0 A	Without cover	TA35-CFTRF100C0-000	4435.0056
1-pole, 1 bimetal, without illumination	Black	embossed	10.0 A	Without cover	TA35-CFTBF100C0-000	4435.0174
1-pole, 1 bimetal, momentary switch, without illumination	Black	embossed	10.0 A	Without cover	TA35-CGTBF100C0-000	4435.0471
1-pole, 1 bimetal, without illumination	White	embossed	13.0 A	Without cover	TA35-CFTWF130C0-000	4435.0049
1-pole, 1 bimetal, without illumination	White	embossed	15.0 A	Without cover	TA35-CFTWF150C0-000	4435.0037
1-pole, 1 bimetal, without illumination	Black	embossed	15.0 A	Without cover	TA35-CFTBF150C0-000	4435.0137
1-pole, 1 bimetal, without illumination	Black	white printed	16.0 A	Without cover	TA35-CFTBH160C0-000	4435.0209
1-pole, 1 bimetal, without illumination	Black	embossed	16.0 A	Without cover	TA35-CFTBF160C0-000	4435.0300
1-pole, 1 bimetal, without illumination	Black	white printed	20.0 A	Without cover	TA35-CFTBL200C0-000	4435.0256

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging Unit

Accessories

Description



TA35_Accessories Screw-on collar with cover, IP65

20 Pcs



OUR CERTIFICATE

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