

4435.0661 Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 4435.0661-DG SCHURTER Inc. 4435.0661 TA35 CIRCUIT BREAKER 2P RO 16A Circuit Breaker AC DC

https://www.DiGi-Electronics.com



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Purchase and inquiry

Manufacturer Product Number:
4435.0661
Series:

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		

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

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: > 2.5kV		acc. to IEC 60068-2-6, test Tc	
0	Impulse 1.2/50 µs: > 4 kV		10 G @ 60 - 500 Hz	
Insulation Resistance	$500 \text{VDC} > 100 \text{M}\Omega$		acc. to IEC 60068-2-6, test Tc	
Lifetime	mechanical: 50'000 switching cycles	Shock Resistance	30 G / 18ms	
	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
NE NE	VDE Approvals	VDE	VDE Certificate Number: 40019754
c FN 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	
	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

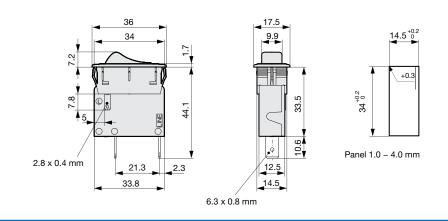
Organization	Design	Standard	Description
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

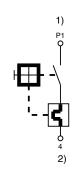
	0		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA 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.

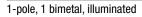
Dimension [mm]

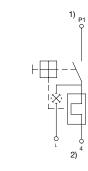


Diagrams









1) 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
UL 1077	0.0520 A	277 V	32 V
CSA C22.2 235	0.0520 A	277 V	32 V
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

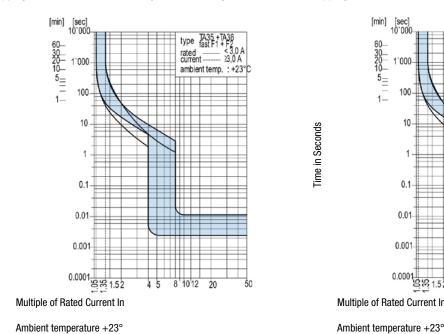
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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	

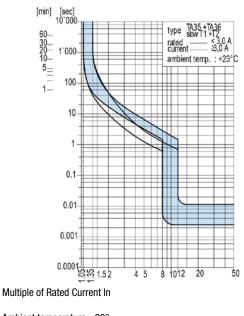
Example: Rated current = 5 A, Environmental temperature = 50 °C --> Correction factor = 1.04, Resulting current = 5.2 A --> Round to next higher rated current: 6 A

Time-Current-Curves

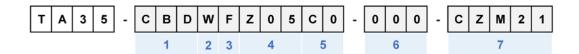
Tripping Characteristics thermal magnetic fast acting



Tripping Characteristics thermal magnetic time lag



Order number key



Basic	۹ 1				
Poles		1	2		3
Thermal overload protection		P1	P1 P2 0 0	P1 P2	P1 P2 P3
Illumination					
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				
Without illumination		CGT	CET	CED	CLD

* grey highlighted fields: configuration is not offered anymore

black-clear transparent=1black-red transparent=3black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	Front- & Actua				Q,	2
black-red transparent=3black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	Front Bezel	Rocker without illumination	Rocker with illumination			
black-green transparent=4black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	black	-	clear transparent	=	1	
black-orange transparent=6blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	black	-	red transparent	=	3	
blackblack-=Bblackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	black	-	green transparent	=	4	
blackgreen-=Gblackred-=Rblackwhite-=Wblackorange-=X	black	-	orange transparent	=	6	
blackred-=Rblackwhite-=Wblackorange-=X	black	black	-	=	В	
black white - = W black orange - = X	black	green	-	=	G	
black orange - = X	black	red	-	=	R	
	black	white	-	=	W	
black vellow - = Y	black	orange	-	=	Х	
	black	yellow	-	=	Y	

TA35 Rocker 1 Pole

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Rated current [A]

Rated c		nt [A] load prot	ection						0	4
In	10101		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	2A =	032	8.5 A	=	085
0.15 A	=	Z15	1.3 A	= J13	3.5	5A =	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	2A =	042	11.0 A	=	110
0.35 A	=	Z35	1.7 A	= J17	4.5	5A =	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	2A =	052	14.0 A*	=	140
0.60 A	=	J06	2.1 A	= J21	5.5	5A =	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	5A =	065	18.0 A*	=	180
1.00 A	=	J10	2.8 A	= J28	7.0) A =	070	19.0 A*	=	190
					7.5	5A =	075	20.0 A*	=	200

(additional current ratings on request)

* 3-Pole max. 12 A

Features

Standard, no other features

C0

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Т	Α	3	5	-	с	в	D	w	F	z	0	5	с	0	-	0	0	0	-	с	z	м	2	1
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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

20 Pcs

Accessories

Description



TA35_Accessories Screw-on collar with cover, IP65



OUR CERTIFICATE

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