

4435.0494 Datasheet



DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description

4435.0494-DG SCHURTER Inc. 4435.0494 TA35 CIRCUIT BREAKER 2P RO 15A Circuit Breaker AC DC

https://www.DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
4435.0494	SCHURTER Inc.
Series:	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

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
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

Organization	Design	Standard	Description			
I <u>EC</u>	Designed according to	IEC 60934	Circuit-breakers for equipment (CBE)			
(L)	Designed according to	UL 1077	Standard for Supplementary Protectors for Use in Electrical Equipment			
GEO Group	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

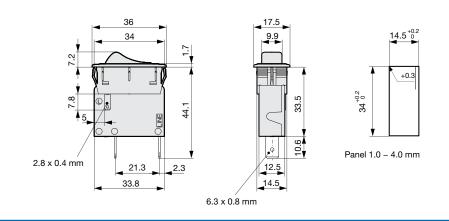
Organization	Design	Standard	Description
IEC.	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

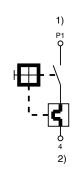
	5		
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA 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
(1)	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]



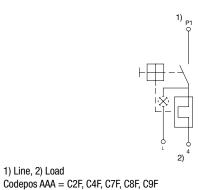
Diagrams





1-pole, 1 bimetal, illuminated

1) Line, 2) Load



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

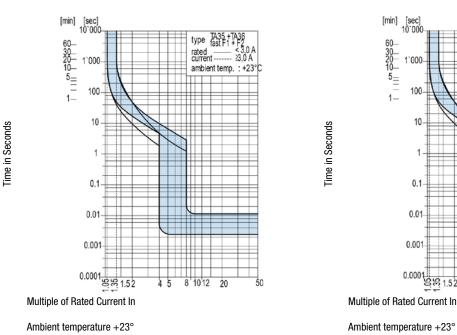
The units are calibrated for an ambient temperature of $+23^{\circ}$ C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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

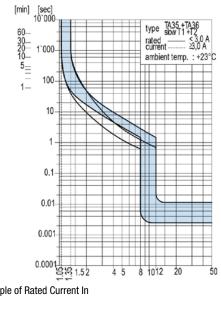
Example: Rated current = 5 A, Environmental temperature = 50 °C --> Correction factor = 1.04, Resulting current = 5.2 A --> Round to next higher rated current: 6 A

Time-Current-Curves

Tripping Characteristics thermal magnetic fast acting



Tripping Characteristics thermal magnetic time lag



Order number key



Basic function 9					् 1
Poles		1		2	3
Therma protecti	al overload on	P1	P1 P2	P1 P2	P1 P2 P3
Illumina	ation				
Rocker	r				
Without	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- & Actua Front Bezel	tion color Rocker without illumination	Rocker with illumination		O N	2
	Rocker without murmination				
black	-	clear transparent	=	1	
black	-	red transparent	=	3	
black	-	green transparent	=	4	
black	-	orange transparent	=	6	
black	black	-	=	В	
black	green	-	=	G	
black	red	-	=	R	
black	white	-	=	W	
black	orange	-	=	Х	
black	yellow	-	=	Y	

TA35 Rocker 1Pole

T A 3 5	- C	в	D	w	F	z	0	5	с	0	-	0	0	0	-	С	z	м	2	1
		1		2	3		4		5	5			6					7		
Rocker legend,	marki	ng																0		3
	Em	hose	hor													-		F		

- 0	Embossed	=	F
OFF	Printed white Printed black	= =	H K
- 0	Printed white Printed black	=	L M

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

5

0

C0

=

____ [

Т	Α	3	5	-	С	в	D	w	F	z	0	5	С	0	-	0	0	0	-	С	z	м	2	1
						1		2	3		4		ę	5			6					7		
Spe	ecia	l ma	ırkir	ng																		0		6
Sta	ndai	rd																		=		000		
Spe	ecial	ma	rking	g (X	XX :	= pla	aceh	ode	r)											=		XX>	(
Aco	cess	orie	es, f	acto	ory-i	mοι	inte	d (o	ptio	nal))											0		7
No	acce	esso	ory																	=		(bla	nk)	
Tra	nspa	aren	t pro	otec	tion	cov	er.	2-pc	ole. I	P65							A.			=		CZN	//21	
																	H	1 and						
Tra	nspa	aren	it pro	otec	tion	cov	er w	vith r	aise	ed co	ollar	, 2-p	ole,	IP6	5			0		=		CZN	//23	
																		- Jan						
																	6							
Rai	sed	coll	ar, 2	2-po	le, IF	P40											A MAR	17		=		CZN	/124	
																	1	\checkmark						
Tra	nspa	aren	it an	tiba	cteri	al p	rote	ctior		ver,	2-p	ole,	IP6	5			A.			=		CZN	/125	
																		1						

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

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we striciy control the quality of products and services. Welcome your RFQ to Email: Info@DiGi-Electronics.com

DCI	DCL	DCL	NA NOS1 NA A
QUALITY MANAGEMENT SYSTEM CERTIFICATE	ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATE	OCCUPATIONAL HEALTH & SAFETY MANAGEMENT SYSTEM CERTIFICATE	心可生存证明者 CERTIFICATE OF INCORPORATION
DIGI ELECTRONICS HK LIMITED	DIGI ELECTRONICS HK LIMITED	DIGI ELECTRONICS HK LIMITED	A B B - + I have by small y that
RATINGS 355, 10 KING COMPETING AND A REAL AND STREET, MONGHD	FLATERALIS 397, HO HONG COMPRESSION AMOUNT A MUCH STREET, MONGRO	FLATERALIS 267, NO HANG CONVERTING AND THE 2 HERA VIEW STREET, INCHORE	DELLE ACTIONCY INC. AMTES 均衡電子指導作符合可
GB/T 19001-2016 ktt ISO9001:2015	GB/T 24001-2016 idt ISO14001:2015	RUMANDO 2011 IO NOD COMPARING CONTRA 5 16 Y VAN STREET, MONINO R. S.	$0 \rightarrow 0$ if if $0 \rightarrow 0$ is $0 \rightarrow 0$ if $1 \ge 0 \le 0 \Rightarrow 0 \Rightarrow 0$ is DNs day becomestical in Kang Kang under the Comparison Delivarian $A \rightarrow 0 \Rightarrow A \rightarrow 0 \Rightarrow 0 \Rightarrow 0 \Rightarrow 0 \Rightarrow 0 \Rightarrow 0$ (Effective E2) of the Laws of Hears Rough, and Hear Bits Compary is
Radies of electronic components	Select of dimension compared	Refer of elements compares	(1944)44 BE of the Laws of Hang Bong, and Ball Bas company is ${\mathbb T}$. ${\mathbb R}$, ${\mathbb T}$. The Ball company,
tantanaturate anter monoste tana meter meter mete	tartina Name Participation (New Strendspring A an AD	bethallheim antariana beat can NUSH-604-13 Marchille	5 # 4 # # ± 0 − Λ + − Λ ± + ± + ± ± + NetWO 06 32 James 200.
	Levelen And Face Level		€2445014.01.0-61164,8,468,80 Mo.Au.1.1.02050 Parglandar at Campanian Mang Space Associationstrate August
Control of the second sec	For the second s	Control trace is a first of the second	In Hop: 이 진 실 4년 3 근 카이트 토가에 · 프 + A. 비행 / 1 위 · 의 · 의 · A. 비행 / 이 · 이 · 이 · 이 · 이 · 이 · 이 · 이 · 이 · 이





Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.