

IEC Appliance Inlet C14 with Circuit Breaker TA45



Screw-on from front side
Rocker non-illuminated
white



Screw-on from front side
Rocker illuminated
green



See below:
[Approvals and Compliances](#)

Description

- Panel mount :
Screw-on mounting front side
- 2 Functions :
Appliance Inlet Protection class I , circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm

Characteristics

- All single elements are already wired
- Unwired versions available on request
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 62368-1

References

Alternative: version with line filter [5145](#)
We recommend for new applications [DF11](#)
Last order date: 30.03.2025
Last delivery date: 30.06.2025

Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Technical Data

Ratings IEC	10A / 250VAC; 50Hz	Appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Ratings UL/CSA	15A / 250VAC; 60Hz		
Dielectric Strength	> 1.5kVAC between L/N-PE (1 min/50 Hz)		
Allowable Operation Temperature	-10°C to 55°C	Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A
IP-Protection	front side IP40 acc. to IEC 60529		
Protection against electric shock	Suitable for appliances with protection class I acc. to IEC 61140		
Terminal	Quick connect terminals 6.3 x 0.8 mm		
Panel Thickness S	Screw: max 6 mm Mounting screw torque max 0.5 Nm		
Material: Housing	Thermoplastic, black, UL 94V-0		

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.

Approvals




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

Approval Reference Type: 6145

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	VDE Certificate Number: 40040061
	UL Approvals	UL	UR File Number: E96454


Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
	Designed according to	UL 60320-1	Standard for Attachment Plugs and Receptacles
	Designed according to	CSA C22.2 no. 60320-1	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices






Application standards

Application standards where the product can be used

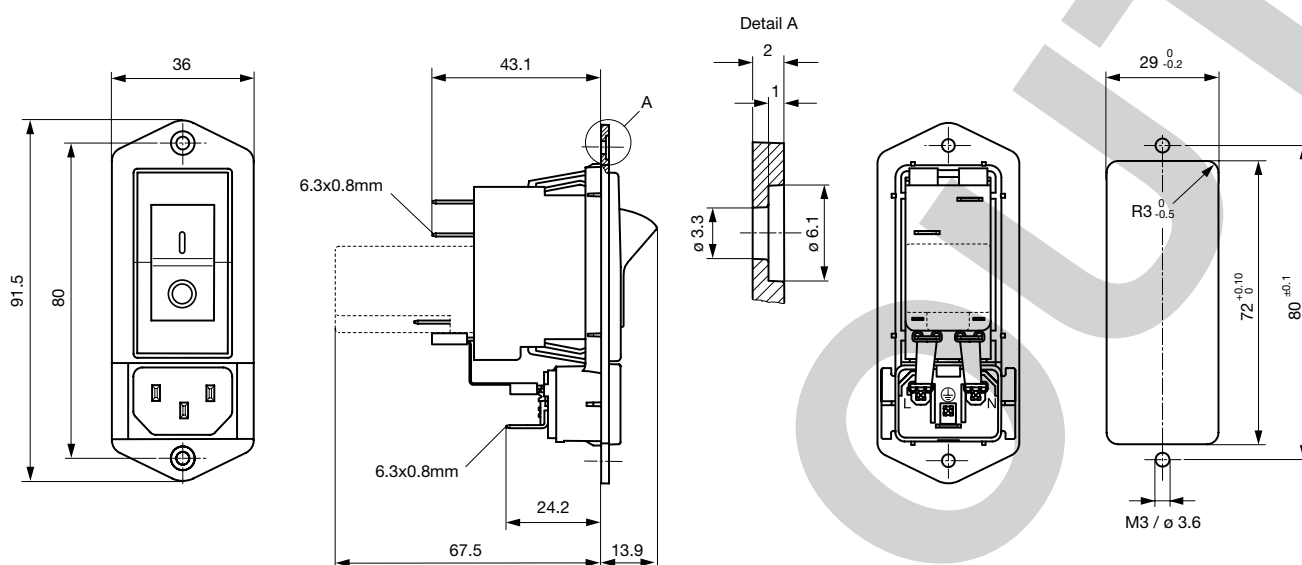
Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

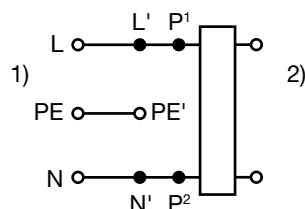
Identification	Details	Initiator	Description
	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
	UKCA declaration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

Dimensions [mm]



* --- Version TA45 with undervoltage release

Diagrams



- 1) Line
2) Load

Effect of ambient temperature

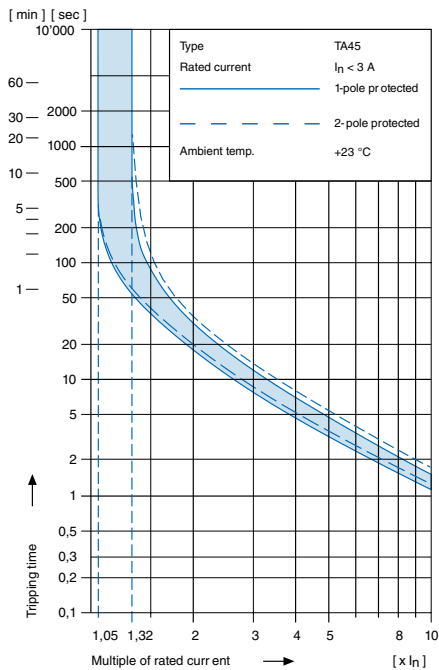
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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

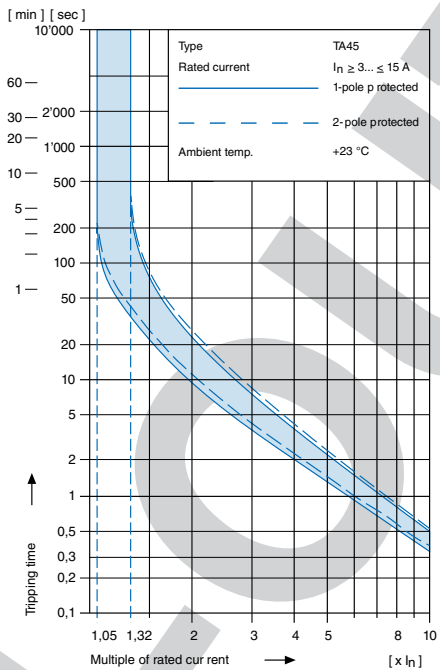
Example: With a nominal current of 5A and an ambient temperature of 40°C, a correction factor of 1.08 results. This results in a nominal current of 5.5 A, which is rounded up to the next higher nominal current 6 A.

Time-Current-Curves

Tripping Characteristics $I_n < 3\text{ A}$



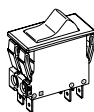
Tripping Characteristics $I_n \geq 3 \dots \leq 15\text{ A}$



Order number key

Configuration code TA45

Type	Configuration code TA45									
6145	A	B	T	W	F	1	5	0	C	0

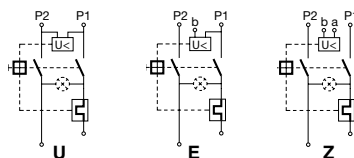


- Circuit Breaker of Equipment
- 2-pole, rocker actuated
- Quick connect terminal

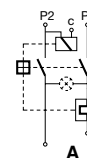
Other types on request

Without release: code C0

Undervoltage release



Remote trip release



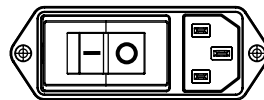
				Code	Rated voltage U_n
•	•	•	•	2	240 V AC
•	•	•	•	3	230 V AC
•	•	•	•	4	120 V AC

Rated current circuit breaker of equipment

I_n	Code	I_n	Code	I_n	Code	I_n	Code
0,1	J01	1,3	J13	2,8	J28	10,0	100
0,2	J02	1,4	J14	3,0	030	11,0	110
0,3	J03	1,5	J15	3,5	035	12,0	120
0,4	J04	1,6	J16	4,0	040	13,0	130
0,5	J05	1,7	J17	4,5	045	14,0	140
0,6	J06	1,8	J18	5,0	050	15,0	150
0,7	J07	1,9	J19	6,0	060	20,0	200
0,8	J08	2,0	J20	6,5	065		
0,9	J09	2,1	J21	7,0	070		
1,0	J10	2,2	J22	7,5	075		
1,1	J11	2,3	J23	8,0	080		
1,2	J12	2,5	J25	9,0	090		

Rocker legend

Surface	Illustration	Colour of print	Position of the rocker legend e.g F
F embossed	— O		
H printed	ON OFF	white	
K printed	ON OFF	black	
L printed	— O	white	
M printed	— O	black	
P printed	I O	white	
R printed	I O	black	



Colours

Switch front

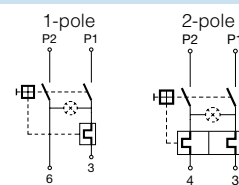
W	black
B	black
6	black

Rocker

white	—
black	—
—	orange transp.

Diagram

Thermal overload protection



Without illumination

220...240 V	ABT	ABD
110...120 V	A12	A32
	A14	A34

Configuration code (Order example)

Type	Configuration code TA45	
6145 -	A B T W F 1 5 0 C 0 -	0 0 0

- Terminal PE**
1 Quick-connect terminal 6.3x0.8 mm
- Terminal N**
1 Quick-connect terminals 6.3x0.8mm, without connection to TA45
4 Connection to TA45 non insulated
- Terminal L**
1 Quick-connect terminals 6.3x0.8mm, without connection to TA45
4 Connection to TA45 non insulated

Packaging unit 20 Pcs

Accessories

Description



RC320
Rear Cover for Power Entry Module

Mating Outlets/Connectors

Category / Description



Appliance Outlet Overview complete

4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I	4787
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091



Connector Overview complete

4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4781 Mounting: Power Cord, Cable, Connector: IEC C15	4781
4784 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C15	4784

Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC17KS, V-Lock cord retaining, diverse m, Connector IEC C17, diverse, black / grey / white	VAC17KS
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Mouser Electronics

Authorized Distributor

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[Schurter:](#)

<u>6145.0022.001</u>	<u>6145.0024.001</u>	<u>6145.0031.000</u>	<u>6145.0031.001</u>	<u>6145.0470.001</u>	<u>6145.0586.001</u>	<u>6145.0764.001</u>
<u>6145.0847.001</u>	<u>6145.0991.000</u>	<u>6145.0991.001</u>	<u>6145.1089.000</u>	<u>6145.1089.001</u>	<u>6145.1477.000</u>	<u>6145.2078.001</u>
<u>6145.2173.000</u>	<u>6145.2173.001</u>	<u>6145.2173.002</u>	<u>6145.2217.001</u>	<u>6145.2269.000</u>	<u>6145.2405.001</u>	<u>6145.2755.001</u>
<u>6145.2770.000</u>	<u>6145.2831.000</u>	<u>6145.2837.000</u>	<u>6145.2844.000</u>	<u>6145.2882.001</u>	<u>6145.2950.001</u>	<u>6145.3213.001</u>
<u>6145.3214.001</u>	<u>6145.3431.001</u>	<u>6145.3436.001</u>	<u>6145.2307.001</u>			