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

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Screw-on mounting from 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 60950

References
Alternative: version with line filter   5145
We recommend for new applications   DF11

Weblinks
pdf data sheet, html datasheet, General Product Information, Distributor-Stock-Check, Accessories, Detailed request for product, Landing Page

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 / 250 VAC; 50 Hz	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	15 A / 250 VAC; 60 Hz		
Dielectric Strength	> 1.5 kVAC 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	from 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	UL File Number: E96454

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
UL	Designed according to	UL 60320-1	Standard for Attachment Plugs and Receptacles
CSA Group	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
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.

Compliances

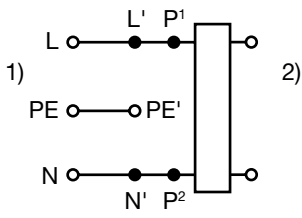The product complies with following Guide Lines

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.
RoHS COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
50	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.

Dimensions [mm]
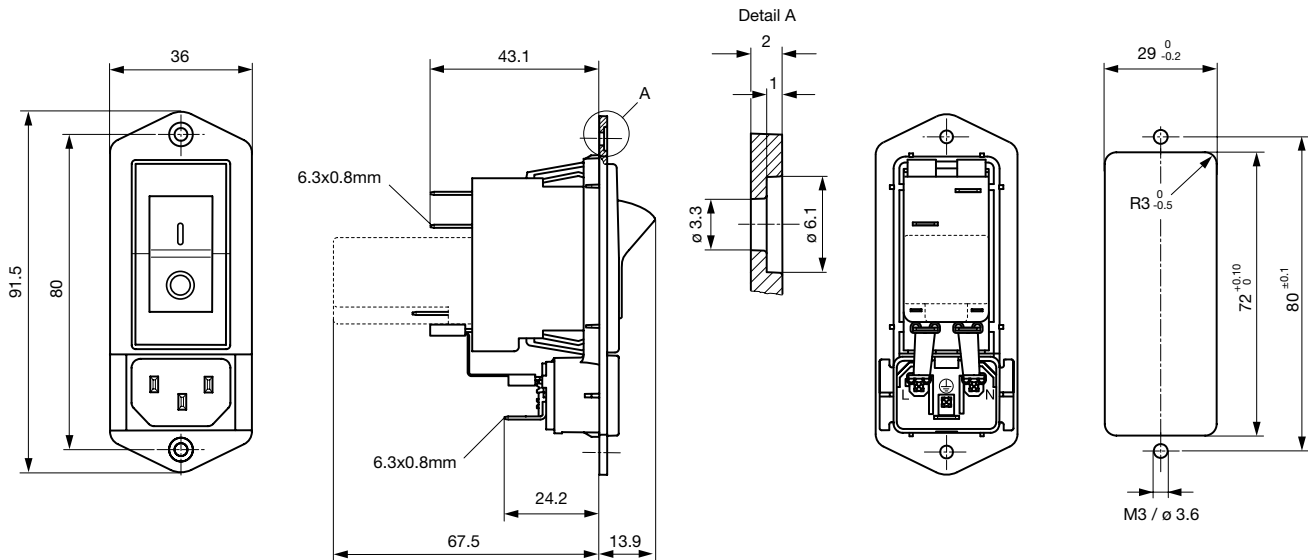
* --- Version TA45 with undervoltage release

Diagrams

L' P¹

L

1)   2)

PE — PE'

N

N' P²

1) Line
2) Load

Time-Current-Curves

Tripping Characteristics $I_n < 3$ A

Type	TA45	
Rated current	$I_n < 3$ A	
———	1-pole protected	
– – –	2-pole protected	
Ambient temp.	+23 °C	

Tripping Characteristics In ≥ 3 ... ≤ 15 A

Type	TA45	
Rated current	$I_n ≥ 3... ≤ 15$ A	
———	1-pole protected	
– – –	2-pole protected	
Ambient temp.	+23 °C	
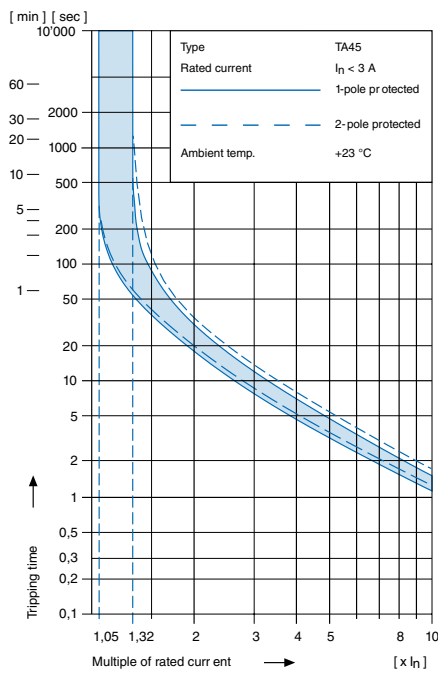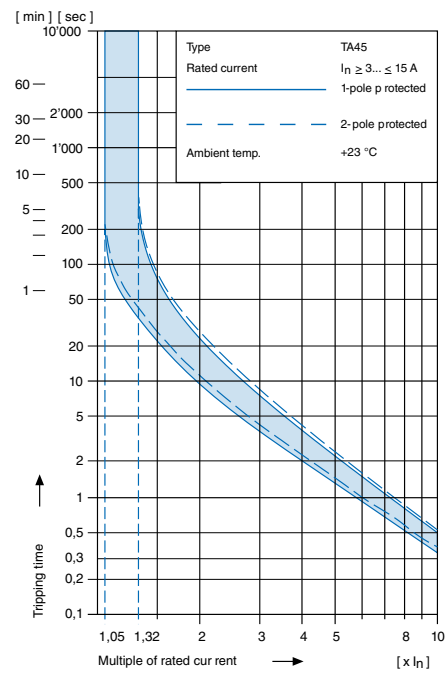
Configuration code TA45

Type	Configuration code TA45	
6145 -	A B T W F 1 5 0 C 0 - 0 0 0	
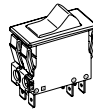
- Circuit Breaker of Equipment
- 2-pole, rocker actuated
- Quick connect terminal
Other types on request

Without release: code C0

Undervoltage release			Remote trip release		
				Code	Rated voltage U_n
U	**E**	**Z**	**A**		
•	•	•	•	**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	Rocker	
W	black	white	–
B	black	black	–
6	black	–	orange transp.

Diagram

		1-pole	2-pole
Thermal overload protection			
Without illumination		**ABT**	**ABD**
With illumination	220…240 V	**A12**	**A32**
	110…120 V	**A14**	**A34**

Configuration code (Order example)

Type	Configuration code TA45	
6145 -	A B T W F 1 5 0 C 0 -	0 0 0
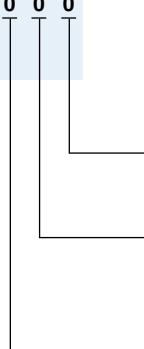
Terminal PE
1 Quick-connect terminal 6.3x0.8 mm

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
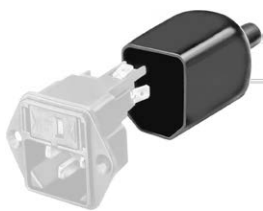**4** Connection to TA45 non insulated

Variants

Circuit Breakers				Connectors						
Rated	Rocker	Illumi-	Add-	Moun-	Panel	Pro-	V-Lock	Internally	Config.	Order

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging unit   20 Pcs

Accessories

Description

Assorted Covers
Rear Cover

	0859.0074

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
4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder terminals or quick connect terminals, 10 A, Suitable for appliances with protection class I	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

Appliance Outlet further types to 6145

Connector Overview complete

4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4012 Mounting: Power Supply Cord, 3 x 1 mm², Screw clamps, Connector: IEC C13	4012
4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
Connector further types to 6145	...

Mating Outlets/Connectors shuttered

Power Cord Overview complete

VAC17KS, V-Lock cord retaining, diverse m, Connector IEC C17, diverse, black / grey / white	VAC17KS
Power Cord further types to 6145	

25.11.2019

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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