

## IEC Appliance Inlet C14 or C18 with recessed Circuit Breaker TA45



Snap-in mounting from front side  
Rocker non-illuminated  
white



Screw-on version from front or rear side  
Rocker illuminated  
orange



C14

70° C



C18

70° C

See below:

[Approvals and Complies](#)

### Description

- Panel mount :  
Screw-on version from front or rear side, snap-in version from front side
- 2 Functions :  
Appliance Inlet protection class I or II , circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm

### Characteristics

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

### Other versions on request

- Unwired versions
- Other rocker marking
- Variant with notch for V-Lock mating Cordsets

### References

Alternative: version with line filter [DF12](#)

Substitute for type [6145](#)

### Weblinks

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [Approvals](#), [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	10 A / 250VAC; 50Hz
Ratings UL/CSA	15 A / 250VAC; 60Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temperature	-10 °C to 55 °C
IP-Protection	from front side IP40 acc. to IEC 60529
Protection against electric shock	Suitable for appliances with protection class I or II acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5Nm Snap-in: 1/1.5/2/2.5/3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

Appliance inlet/-outlet	C14 / C18 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II
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

### Approvals and Complies



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: DF11

Approval Logo	Certificates	Certification Body	Description
	<a href="#">VDE Approvals</a>	VDE	Certificate Number: 40011305
	<a href="#">UL Approvals</a>	UL	UL 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

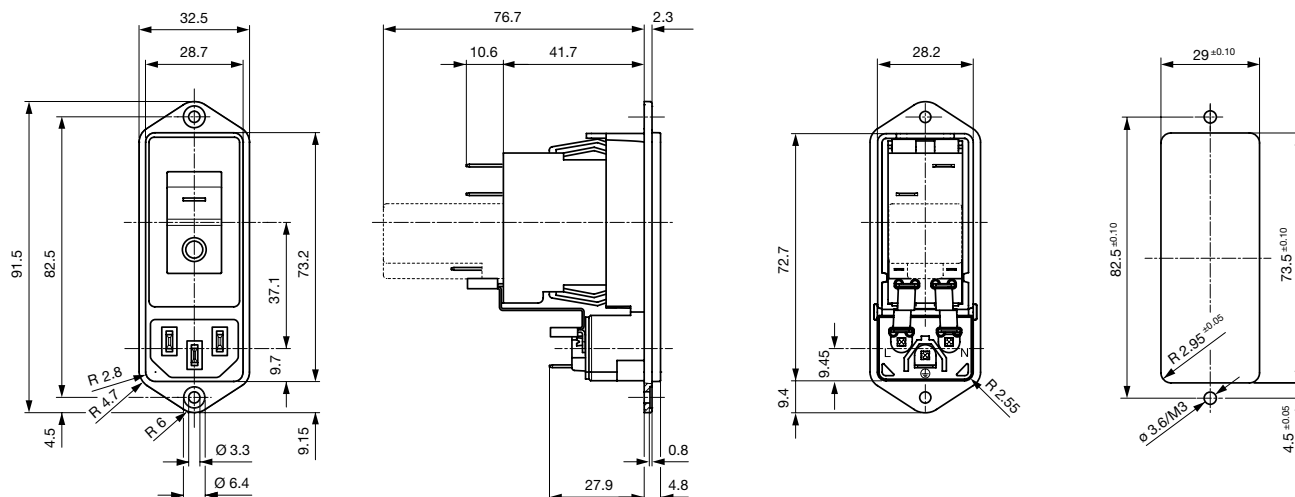
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.

## Compliances

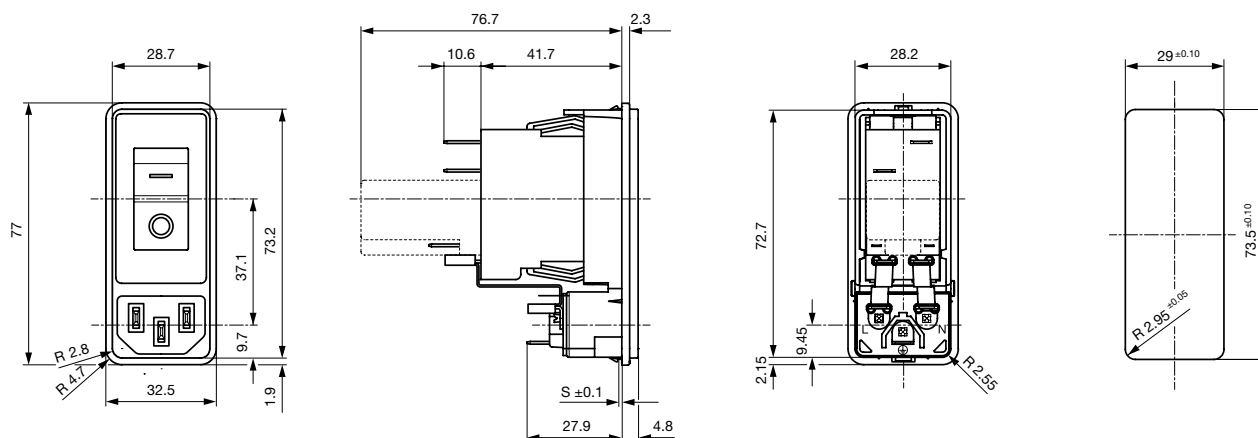
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	<a href="#">CE declaration of conformity</a>	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.
	<a href="#">RoHS</a>	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	<a href="#">China RoHS</a>	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.
	<a href="#">REACH</a>	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.
	<a href="#">Landing Page V-Lock</a>	SCHURTER AG	V-Lock system are based on a matching plug-dose combination. 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.

# **Dimensions [mm]** Screw-on mounting

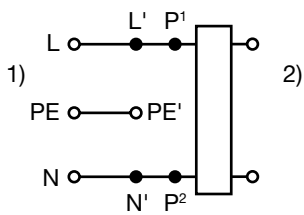


# **Snap-in version**



\* --- Version TA45 with undervoltage release

Diagrams



1) Line  
2) Load

Effect of ambient temperature

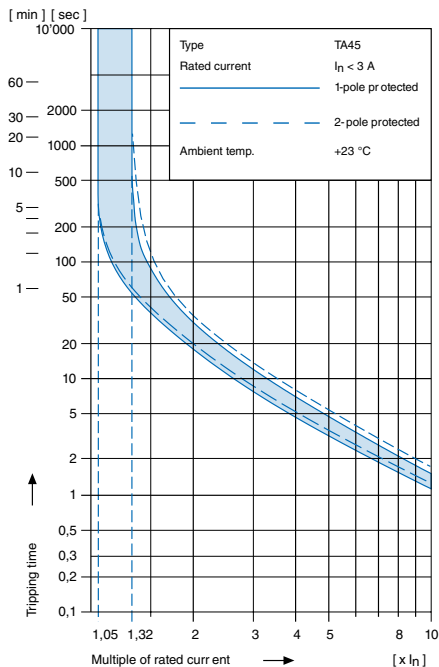
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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

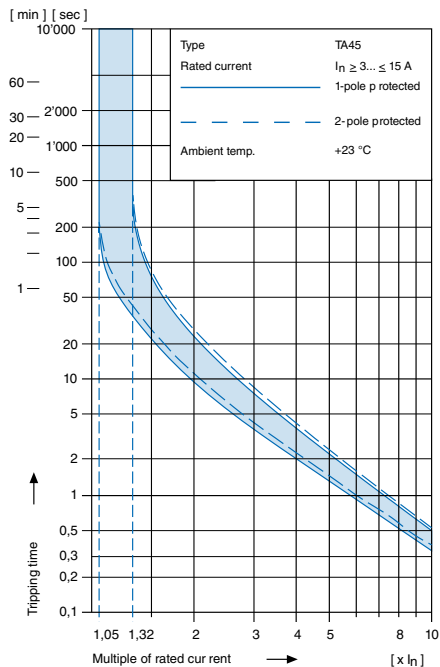
Example: Rated current = 5 A, Environmental temperature = 40 °C, --> Correction factor = 1.08, Resulting current = 5.5 A --> Fount to next higher rated current: 6 A

Time-Current-Curves

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



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



## Configuration code TA45

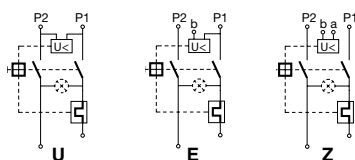
Type	Configuration code TA45			
DF11	ABTWF150C0	000	111	009



- Circuit Breaker of Equipment
  - 2-pole, rocker actuated
  - Quick connect terminal
- Other types on request

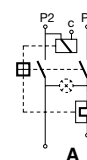
### Without release: code C0

#### Undervoltage release



•	•	•
•	•	•
•	•	•

#### Remote trip release



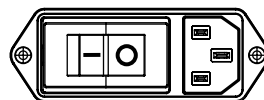
Code	Rated voltage $U_n$
2	240 V AC
3	230 V AC
4	120 V AC

### 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	

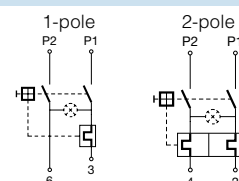


### Colours

Switch front	Rocker
W black	white
B black	black
6 black	— orange transp.

### Diagram

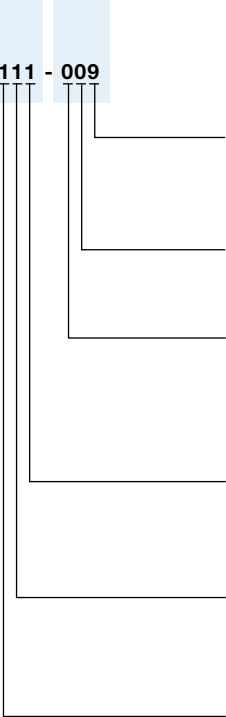
#### Thermal overload protection



Without illumination	ABT	ABD
With illumination	220...240 V 110...120 V	A12 A14 A32 A34

Configuration code (Order example)

Type	Configuration code TA45			
DF11	ABTWF150C0	- 000	- 111	- 009



Optionale Variants

- 0 Standard
- 9 V-Lock

Colour

- 0 Black

Montageart

- 0 Screw mounting
- 1 Screw mounting s = 1.0 mm
- 2 Screw mounting s = 1.5 mm
- 3 Screw mounting s = 2.0 mm
- 4 Screw mounting s = 2.5 mm
- 5 Screw mounting s = 3.0 mm

Anschluss PE

- 0 Without terminal (PCII)
- 1 Quick-connect terminal 6.3x0.8 mm

Anschluss N

- 1 Quick-connect terminals 6.3x0.8mm, without connection to TA45
- 3 Connection to TA45 non insulated

Anschluss L

- 1 Quick-connect terminals 6.3x0.8mm, without connection to TA45
- 3 Connection to TA45 non insulated

Packaging unit 20 Pcs

## Accessories

### Description



Assorted Covers  
Rear Cover

## 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 DF11](#)

#### Connector Overview complete



4782 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4785 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4012 Mounting: Power Supply Cord, 3 x 1 mm <sup>2</sup> , Screw clamps, Connector: IEC C13	4012
4300-06 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4781 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C15	4781

[Connector further types to DF11](#)

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## Mating Outlets/Connectors shuttered



#### Connector Overview complete

4783 Mounting: Power Cord, 3 x 1 mm <sup>2</sup> / 3 x 18 AWG, Cable, Connector: IEC C13	4783
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[Connector further types to DF11](#)



#### Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black	VAC13KS
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[Power Cord further types to DF11](#)

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<a href="#"><u>DF11.1477.0010.01</u></a>	<a href="#"><u>DF11.1486.0010.02</u></a>	<a href="#"><u>DF11.1682.0010.01</u></a>	<a href="#"><u>DF11.1926.0010.01</u></a>	<a href="#"><u>DF11.2217.0010.01</u></a>
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<a href="#"><u>DF11.2173.0012.01</u></a>	<a href="#"><u>DF11.0559.0010.01</u></a>	<a href="#"><u>DF11.0879.0014.02</u></a>	<a href="#"><u>DF11.1358.0014.02</u></a>	<a href="#"><u>DF11.1477.0013.01</u></a>
<a href="#"><u>DF11.1698.0010.01</u></a>	<a href="#"><u>DF11.2309.0010.01</u></a>	<a href="#"><u>DF11.2347.0012.01</u></a>	<a href="#"><u>DF11.2430.0012.01</u></a>	<a href="#"><u>DF11.3714.0010.019</u></a>
<a href="#"><u>DF11.3833.0014.02</u></a>	<a href="#"><u>DF11.3852.0012.01</u></a>	<a href="#"><u>DF11.1927.0013.01</u></a>	<a href="#"><u>DF11.3938.0010.019</u></a>	<a href="#"><u>3-103-454</u></a>
<a href="#"><u>DF11.1406.0010.01</u></a>	<a href="#"><u>DF11.3697.0010.019</u></a>			<a href="#"><u>DF11.1926.0010.02</u></a>