

IEC Appliance Inlet C14 with recessed Circuit Breaker TA45



Description

- Panel Mount :
Screw-on version from front or rear side, snap-in version 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

Approvals

- VDE Certificate Number: 40011305
- UL File Number: E96454

Characteristics

- All single elements are already wired
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 60950

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 datasheet](#), [html-datasheet](#), [General Product Information](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [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.

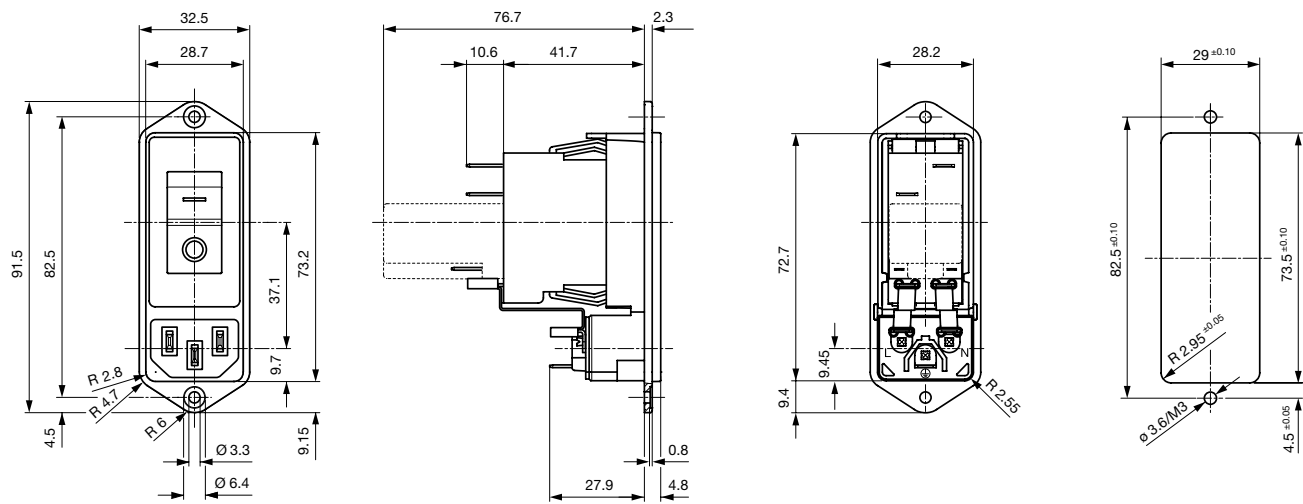
Technical Data

Ratings IEC	10A / 250VAC; 50Hz
Ratings UL/CSA	1 - 15A / 250VAC; 60Hz
Dielectric Strength	> 2.5kVAC between L-N > 3kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temperature	-10°C to 55°C
IP-Protection	from front side IP 40 acc. to IEC 60529
Insulation cover	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 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

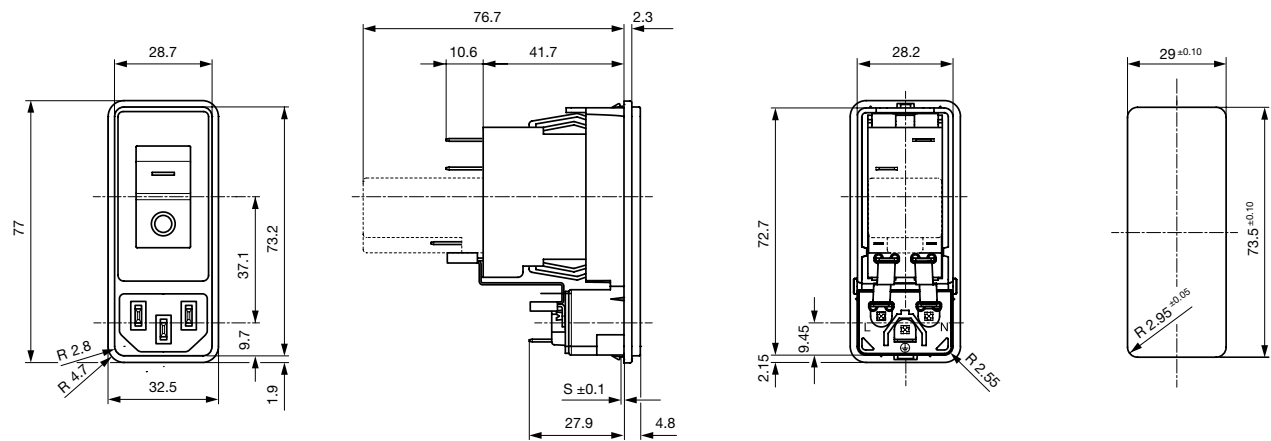
appliance inlet/-outlet	C14 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I
Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

Dimensions
Screw-on Version

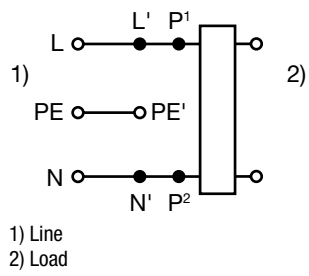


Snap-in version



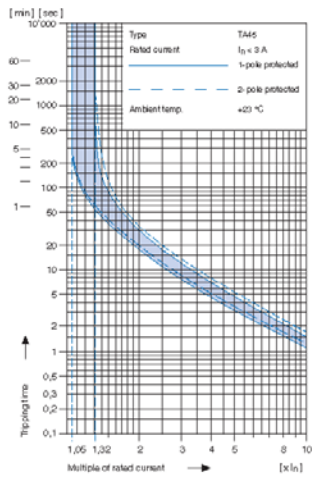
* --- Version TA45 with undervoltage release

Diagrams

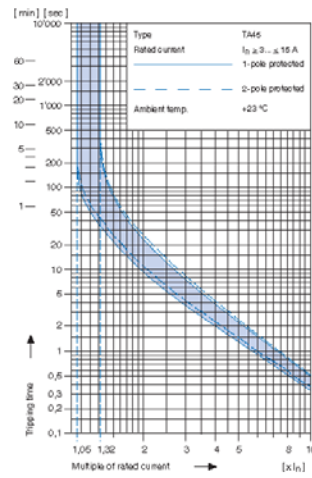


Technical data (continued) Circuit breaker

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



Tripping characteristics
 $I_n \geq 3... \leq 15 \text{ A}$



Effect of ambient temperature ¹⁾

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below.

* Ambient temperature [°C] Correction factor

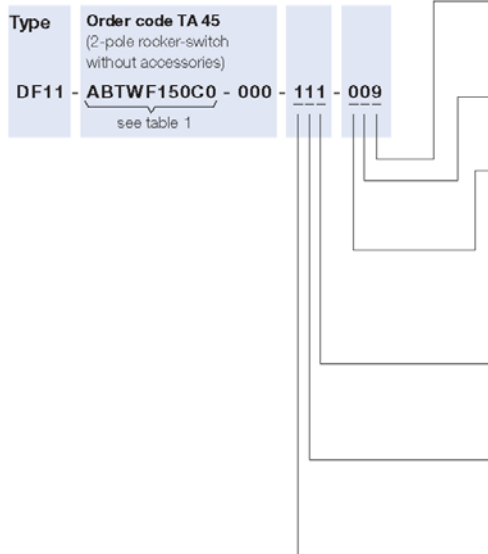
-10	0,89
- 5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

1) Example

Rated current at +23 °C	6,0 A
Ambient temperature	+40 °C
Correction factor	1,08
Chosen rated current at + 40 °C ambient temperature	6 A x 1,08 = 6,5 A

Configuratorcode (example)



Optional Variants

0 standard

9 V-Lock

Colour

0 black

Mounting

0 Screw mounting

1 Snap-in mounting $s = 1.0 \text{ mm}$

2 Snap-in mounting $s = 1.5 \text{ mm}$

3 Snap-in mounting $s = 2.0 \text{ mm}$

4 Snap-in mounting $s = 2.5 \text{ mm}$

5 Snap-in mounting $s = 3.0 \text{ mm}$

Terminal PE

0 without terminal (PCII)

1 Quick-connect terminal 6.3x0.8 mm

Terminal N

1 Quick-connect terminals 6.3x0.8mm

3 connection to TA45 non insulated

Terminal L

1 Quick-connect terminals 6.3x0.8mm

3 connection to TA45 non insulated

Table 1 Selection for type TA45

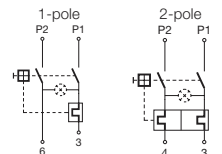
Order example



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

Diagram

Thermal overload protection



Without illumination

ABT

ABD

With illumination 220...240 V
110...120 V

A12

A14

A32

A34

Colours

Switch front

W black
B black
6 black

Rocker

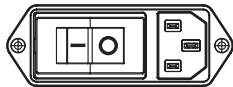
white
black
— orange transp.

Rocker legend

Surface	Illustration	Colour of print
F embossed / Relief	— ○	
H printed / bedruckt	ON OFF	white / weiss
K printed / bedruckt	ON OFF	black / schwarz
L printed / bedruckt	— ○	white / weiss

Surface	Illustration	Colour of print
M printed	— ○	black
P printed	I ○	white
R printed	I ○	black

Position of the rocker legend
e.g F

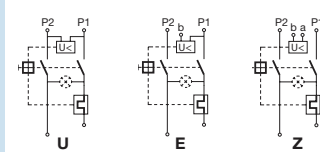


Rated current circuit breaker of equipment

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		

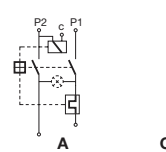
Without release: code C0

Undervoltage release



•	•	•
•	•	•
•	•	•

Remote trip release



•	2	240 V AC
•	3	230 V AC
•	4	120 V AC

Packaging unit 20 Pcs

Accessories

Description



Assorted Covers
Rear Cover

Mating Outlets/Connectors

Category / Description

Appliance Outlet Overview complete



IEC Appliance Outlet F, Screw-on Mounting, Front Side, Solder Terminal	4787
IEC Appliance Outlet F, Snap-in Mounting, Front Side, Solder or Quick-connect Terminal	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 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
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
4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4012

Connector further types to DF11

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Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC13KS, Overview, diverse Connector IEC C13, cord end:	VAC13KS
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Power Cord further types to DF11

Mouser Electronics

Authorized Distributor

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

Schurter:

<u>DF11.2078.0010.01</u>	<u>DF11.1477.0012.02</u>	<u>DF11.0470.0010.01</u>	<u>DF11.0885.0010.01</u>	<u>DF11.1066.0012.01</u>
<u>DF11.1477.0010.01</u>	<u>DF11.1486.0010.02</u>	<u>DF11.1682.0010.01</u>	<u>DF11.1926.0010.01</u>	<u>DF11.2217.0010.01</u>
<u>DF11.2370.0010.02</u>	<u>DF11.3065.0010.01</u>	<u>DF11.3670.0010.01</u>	<u>DF11.3697.0010.01</u>	<u>DF11.3711.0013.01</u>
<u>DF11.3714.0013.01</u>	<u>DF11.3714.0013.019</u>	<u>DF11.3751.0010.01</u>	<u>DF11.1089.0010.01</u>	<u>DF11.1089.0010.02</u>
<u>DF11.2173.0012.01</u>	<u>DF11.0559.0010.01</u>	<u>DF11.0879.0014.02</u>	<u>DF11.1358.0014.02</u>	<u>DF11.1477.0013.01</u>
<u>DF11.1698.0010.01</u>	<u>DF11.2309.0010.01</u>	<u>DF11.2347.0012.01</u>	<u>DF11.2430.0012.01</u>	<u>DF11.3714.0010.019</u>
<u>DF11.3833.0014.02</u>	<u>DF11.3852.0012.01</u>			