

IEC Appliance Inlet C20 with 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: 40001029
- UL File Number: E96454

Characteristics

- All single elements are already wired
Unwired versions available on request
- Line switch non-illuminated or illuminated
Thermal overload protection
Optional with undervoltage- or remote trip release
- Suitable for use in equipment according to IEC 60950

Other versions on request

- Unwired versions
- Variant with notch for V-Lock mating Cordsets

References

Alternative: version with line filter [EF12](#)

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [Mating Connectors](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [CAD-Drawings](#), [Accessories](#), [Mounting instruction](#), [Detailed request for product](#)

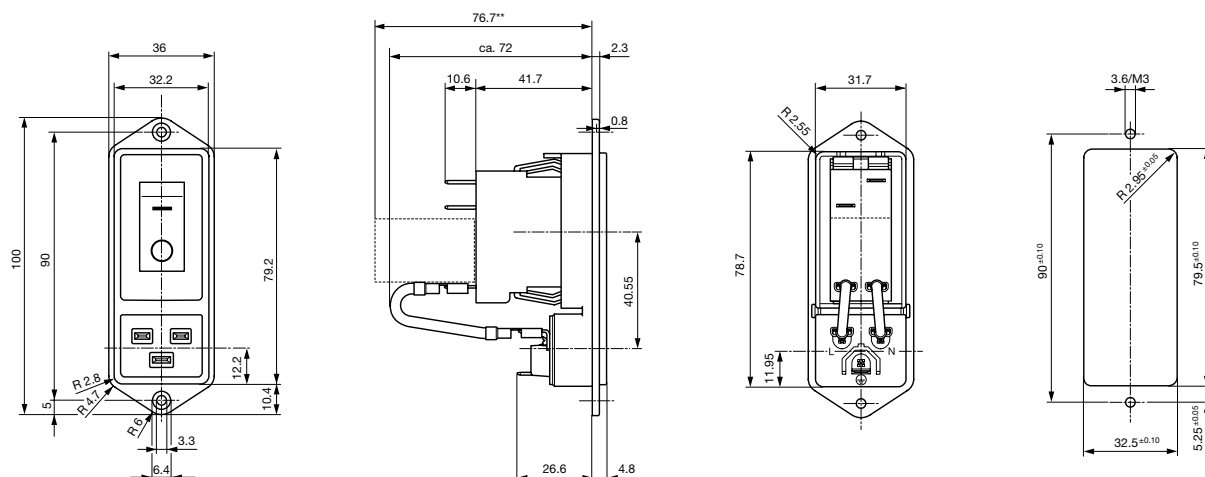
Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Technical Data

Ratings IEC	16 A / 250VAC; 50Hz	Appliance Inlet	C20 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16A, Protection Class I
Ratings UL/CSA	20 A / 125/250VAC; 60Hz	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
Dielectric Strength	> 1.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)	Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical Details
Allowable Operation Temp.	-10 °C to 55 °C		
Degree of Protection	from front side IP 40 acc. to IEC 60529		
Protection Class	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 0.5 Nm Snap-in: 1.5/2/2.5 mm		
Material: Housing	Thermoplastic, black, UL 94V-0		

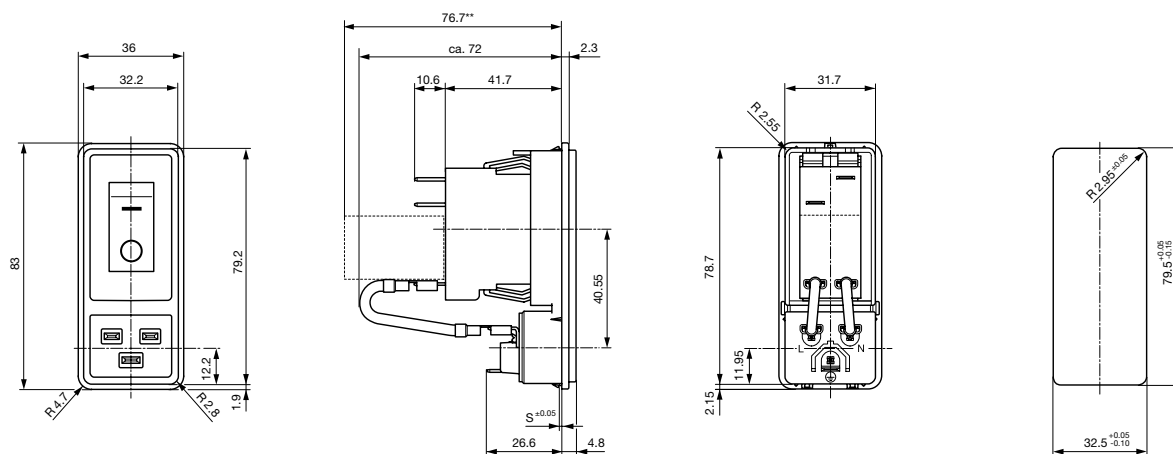
Dimensions

Screw-on mounting



** --- Version TA45 with undervoltage release

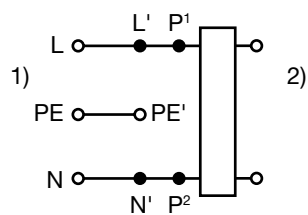
Snap-in mounting



**--- Version TA45 with undervoltage release

Diagrams

Diagram



- 1) Line
2) Load

Table 1 Selection for type TA45

Order example



- Line switch
- 2-pole, rocker actuated
- Quick connect terminal
- Other types on request

Diagram

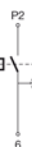
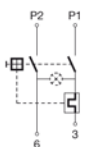
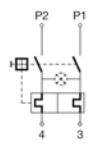
Thermal overload protection

without

with 1-pole

with 2-pole

Without illumination

**ABC****ABT****ABD**

With illumination

220...240 V
110...120 V**A02**
A04**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

white

H printed

black

K printed

white

L printed**Surface****Illustration****Colour of print****M** printed

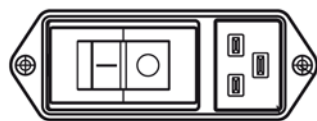
black

P printed

white

R printed

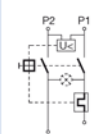
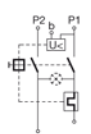
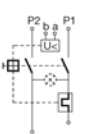
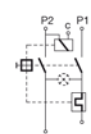
black

Position of the rocker legend
e.g F**Rated current:**

- Without thermal overload protection: code **C00** } $I_n = 20\text{ A}$
- With thermal overload protection: rated current I_n (A)

I_n	Code	I_n	Code	I_n	Code	I_n	Code
10,0	100	13,0	130	16,0	160	19,0	190
11,0	110	14,0	140	17,0	170	20,0	200
12,0	120	15,0	150	18,0	180		

Other rated currents on request

Without release: code C0**Undervoltage release****U****E****Z****Remote trip release****A****Code**Rated
voltage U_n

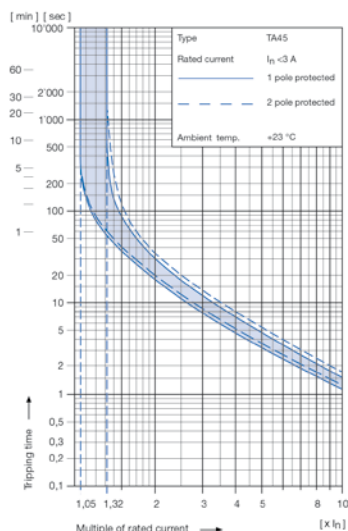
•	•	•
•	•	•
•	•	•

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

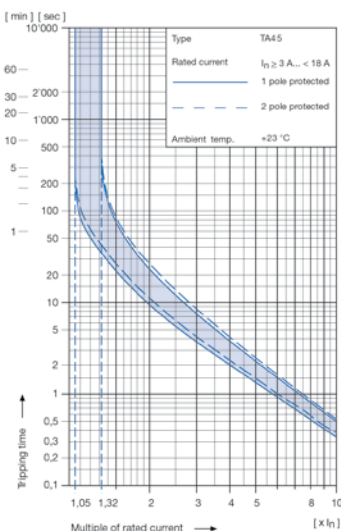
Technical data (continued)

Circuit breaker

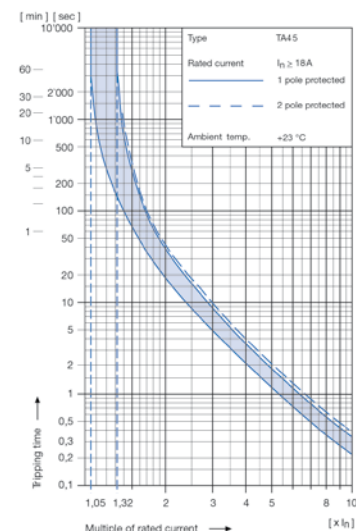
Tripping characteristics

 $I_n < 3 \text{ A}$ 

Tripping characteristics

 $I_n \geq 3 \dots < 18 \text{ A}$ 

Tripping characteristics

 $I_n \geq 18 \text{ A}$ 

1) Effect of ambient temperature

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

Order code for EF11 (order example)

Type	Order code TA45 (2-pole rocker-switch without accessories)
EF11.	A B T W F 1 5 0 C 0 .
	see table 1

0010.01

Wiring

- 1 = wired, quick-connect terminals non-insulated
- 2 = unwired
- 3 = wired, quick-connect terminals insulated

Protection class

0 = Class I, housing black

Panel mount

- 0 = Screw-on version
- 2 = Snap-in version s = 1,5 mm
- 3 = Snap-in version s = 2,0 mm
- 4 = Snap-in version s = 2,5 mm

Terminals

1 = Quick connect terminals 6,3 x 0,8 mm

Features

- 0 = Standard
- 1 = V-Lock notch

Please note that Schurter will establish an internal new part number for logistical use in addition to the order code. The format of this internal part number is, for example EF11.3103.0010.01

Packaging unit 20 Pcs

Accessories

Description



Assorted Covers
Rear Cover



Cord retaining kits
Cord retaining strain relief

Mating Outlets/Connectors

Category / Description



Connector Overview complete

IEC Connector C19, Rewireable, Straight	0104U
IEC Connector C19, Rewireable, Angled	4790
IEC Connector C19, Rewireable, Straight	4795

Connector further types to EF11



Power Supply Cord Overview complete

US Power Supply Cord with IEC Connector C13, hospital grade	4300.0920
EU Power Supply Cord with IEC Connector C19, straight/ angled	6004.0395
US Power Supply Cord with IEC Connector C19, straight	6009.5195

Power Supply Cord further types to EF11

Power Supply or Interconnection Cord Overview complete

Diverse Power Supply and Interconnection Cords 16 A	6003.0395
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Power Supply or Interconnection Cord further types to EF11