

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
- Suitable for use in equipment according to IEC/UL 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](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Accessories](#), [Detailed request for product](#)

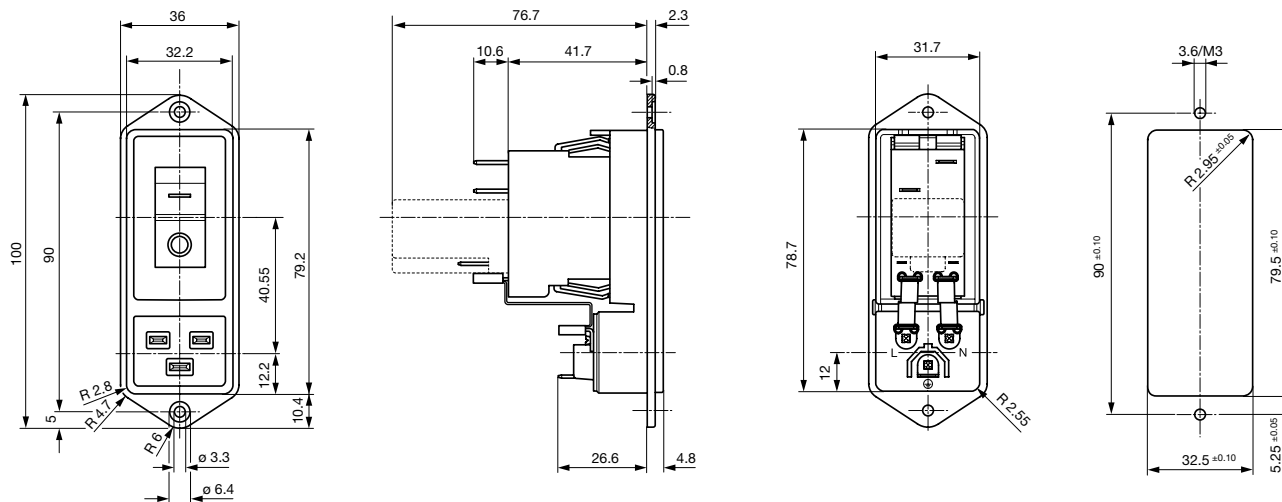
Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Technical Data

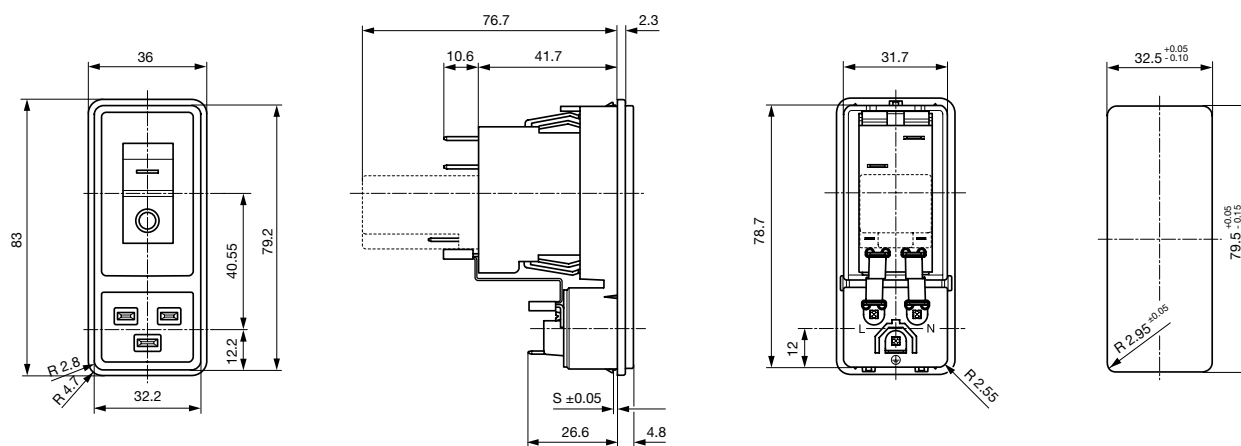
Ratings IEC	16A / 250VAC; 50Hz
Ratings UL/CSA	20A / 125/250VAC; 60Hz
Dielectric Strength	> 1.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50Hz)
Allowable Operation Temp.	-10 °C to 55 °C
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection 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

Appliance Inlet	C20 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16A, 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
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical Details

Screw-on mounting

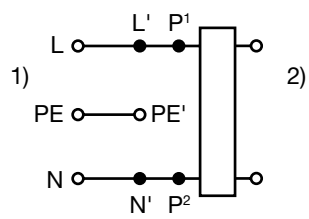


Snap-in mounting



**--- Version TA45 with undervoltage release

Diagrams



- 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	A02	A12	A32
	110...120 V	A04	A14	A34

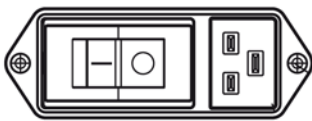
Colours

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

Rocker legend

Surface	Illustration	Colour of print	Surface	Illustration	Colour of print
F embossed		—	M printed		black
H printed		white	P printed		white
K printed		black	R printed		black
L printed		white			

Position of the rocker legend
e.g F



Rated current:

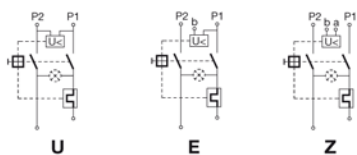
- Without thermal overload protection: code **C00** } $I_n = 20 \text{ A}$
- With thermal overload protection: rated current $I_n \text{ (A)}$

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



•	•	•
•	•	•
•	•	•

Remote trip release

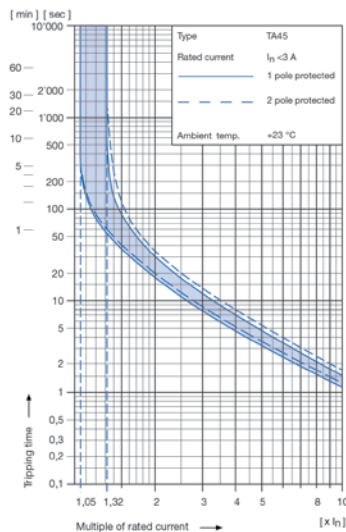


	Code	Rated voltage U_n
•	2	240 V AC
•	3	230 V AC
•	4	120 V AC

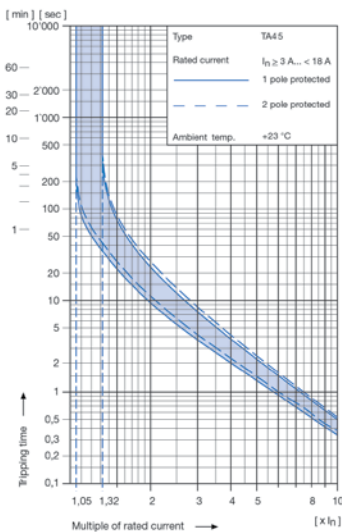
Technical data (continued)

Circuit breaker

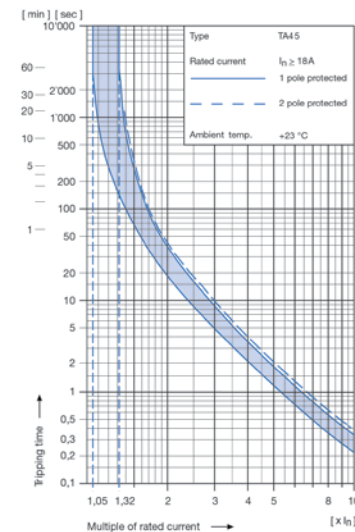
Tripping characteristics
 $I_n < 3 \text{ A}$



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

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

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

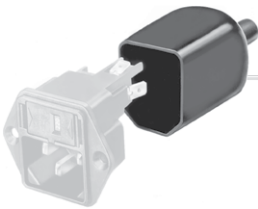
Features

- 0 = Standard
- 1 = V-Lock notch

Packaging unit 16 Pcs

Accessories

Description



Assorted Covers
Rear Cover

0859.0109



Cord retaining kits
Cord retaining strain relief

Flat head, Z
Flat head, H

0888.0021
4700.0008

Mating Outlets/Connectors

Category / Description



Connector Overview complete

IEC Connector C19, Rewireable, Straight
IEC Connector C19, Rewireable, Angled
IEC Connector C19, Rewireable, Straight

4795
4790
0104U

Connector further types to EF11



Power Supply Cord Overview complete

Cord Sets 10 A, North America, 3.0 m, Connector IEC C13, cord end:
Cord Sets 16 A, Europlug, 2.5 m, Connector IEC C19, cord end:
Cord Sets 16 A, North America, 2.5 m, Connector IEC C19, cord end:

4300.0920
6004.0395
6009.5195

Power Supply Cord further types to EF11

Mating Outlets/Connectors shuttered



Power Cord Overview complete

Overview Power Cord with IEC Appliance Connector C19, V-Lock, straight
Power Cord further types to EF11

VAC19KS