IEC Appliance Inlet C20 with Filter, Circuit Breaker TA45 (recessed)



Standard- or Medical-Filter







70° C



- Panel Mount:

Screw-on mounting from front side

- 3 Functions:

Appliance Inlet Protection class I, circuit breaker type TA45 2-pole, Line filter in standard and medical version

- Quick connect terminals 6.3 x 0.8 mm

Approvals

- VDE Certificate Number: 40001520

- UL File Number: E72928







Characteristics

- All single elements are already wired
- Line switch non-illuminated
 Illuminated version on request
 Thermal overload protection
 Optional with undervoltage- or remote trip release
- With EMC-shield
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Variant with notch for V-Lock mating Cordsets

References

Alternative: version without line filter EF11

Weblinks

pdf, html, General Product Information, Approvals, RoHS, CHINA-RoHS, Mating Connectors, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, Accessories

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.

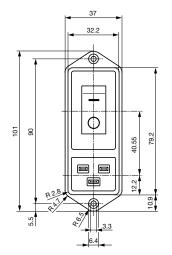
Technical Data Ratings IEC

Ratings IEC	12 - 16 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	12 - 20 A @ Ta 40 °C / 125 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
Allowable Operation Temp.	-10 °C to 55 °C
Climatic Category	10/055/21 acc. to IEC 60068-1
Degree of Protection	from front side IP 40 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class 1 acc. to IEC 61140
Terminal	Quick connect terminals 6.3 x 0.8 mm
Panel Thickness s	Screw: max 8mm Mounting screw torque max 0.5Nm
Material: Housing	Thermoplastic, black, UL 94V-0

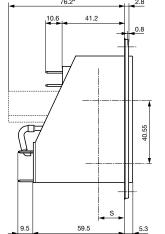
Appliance-Inlet/-Outlet	C20 acc. to IEC/EN 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 16A, Protection Class 1
Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage-or remote trip 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
Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical Details
MTBF	> 100'000h acc. to MIL-HB-217 F

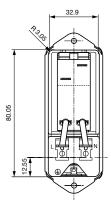
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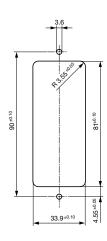
Dimensions



- 59.5 mm 76.2*







- - - - differential mode _____ common mode

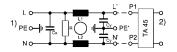
Technical Data of Filter-Components

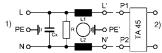
Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
12	Standard Version	2 x 0.8	100	2.2	1
16	Standard Version	2 x 0.6	100	2.2	1
20	Standard Version	2 x 0.3	100	2.2	1
12	Medical Version (M5)	2 x 0.8	100	-	1
16	Medical Version (M5)	2 x 0.6	100	-	1
20	Medical Version (M5)	2 x 0.3	100	-	1

Diagrams

Standard version

Medical version

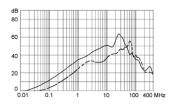




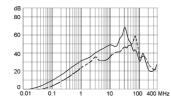
- 1) Line 2) Load
- 1) Line 2) Load

Attenuation Loss

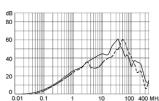




16 A

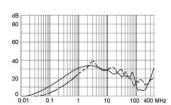


20 A

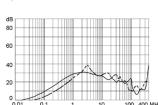


^{* ---} Version TA45 with undervoltage release

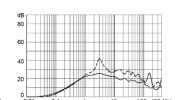
Medical version (M5) 12 A



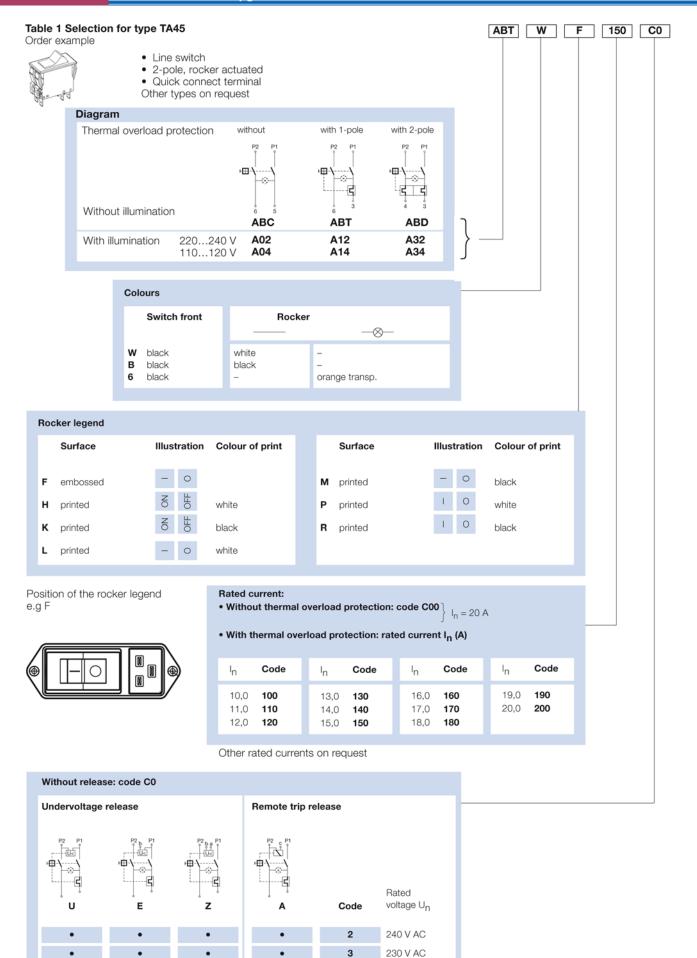




20 A



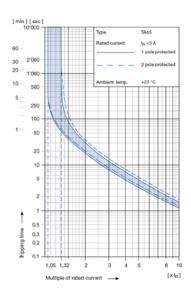
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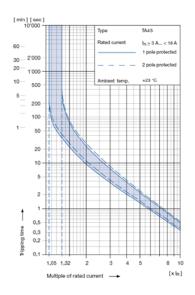
120 V AC

Technical data (continued) Circuit breaker

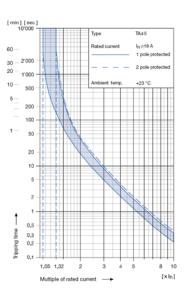
Tripping characteristics $I_n < 3 A$



Tripping characteristics $I_n \ge 3... < 18 A$



Tripping characteristics $I_n \ge 18 A$



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 on the right side:

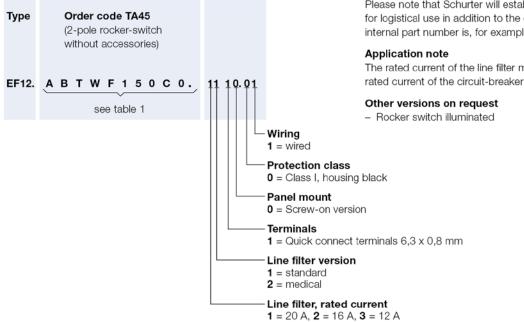
* Ambient temperature [°C]	Correction factor
-10	0,89
-5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* 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 EF12 (order example)



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 EF12.xxxx.1110.01

The rated current of the line filter must be equal or higher than the



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Packaging unit

16 Pcs

Accessories

Description



Assorted Covers Rear Cover



Front Cover Front Cover



Cord retaining kits Cord retaining strain relief

Mating Outlets/Connectors

Category / Description

Connector Overview complete



IEC Connector C19, Rewireable, Straight	0104
IEC Connector C19, Rewireable, Straight	0104U
IEC Connector C19, Rewireable, Angled	1651
IEC Connector C19, Rewireable, Straight	1652
IEC Connector C19, Rewireable, Angled	4790
Connector further types to FF12	



Power Cord Overview complete

Power Cord with IEC Connector C19, Straight	1654

Power Cord further types to EF12 $\,$



Power Supply or Interconnection Cord Overview complete

Diverse Power Supply and Interconnection Cords 16 A Cord Sets 15 A

Power Supply or Interconnection Cord further types to EF12

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