IEC Appliance Inlet C14 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: 40012935

- UL File Number: E72928







Characteristics

- All single elements are already wired
- Line switch non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 60950 Suitable for use in medical equipment according to IEC/UL 60601-1

Other versions on request

- Unwired versions
- Line switch 1-pole
- Other rocker marking
- Medical version M80
- Capacitance CX1
- Variant with notch for V-Lock mating Cordsets

References

Alternative: version without line filter DF11

Substitute for type 5145 Alternative: Standard version

Weblinks

pdf-datasheet, html-datasheet, General Product Information, RoHS, CHINA-RoHS, REACH, Mating Connectors, SCHURTER-Stock-Check, 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.

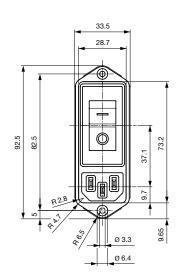
Technical Data

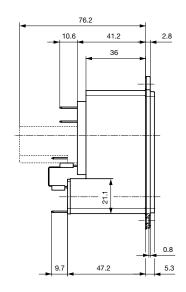
Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz)
	medical < 5 μA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N
	> 2.7 kVDC between L/N-PE
	Test voltage (2 sec)
Allowable Operation Temp.	-10 °C to 55 °C
Climatic Category	10/055/21 acc. to IEC 60068-1
Degree of Protection	IP 40 acc. to
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
Material: Housing	Thermoplastic, black, UL 94V-0

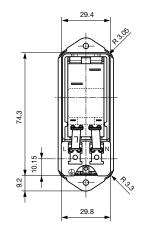
Appliance-Inlet/-Outlet	C14 acc. to IEC 60320-1 UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage-or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A
Line Switch	2-pole non-illuminated or illuminated acc. to IEC 61058-1 Technical Details
Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
MTBF	> 100'000h acc. to MIL-HB-217 F

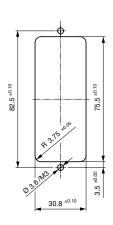
Dimensions

Screw-on Version









* --- Version TA45 with undervoltage release

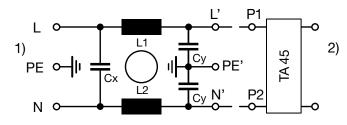
Technical Data of Filter-Components

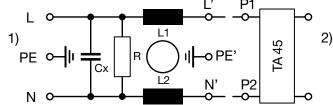
Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [M Ω]
15	Standard	2 x 11	100	2.2	1
6	Medical (M5)	2 x 11	100	2.2	1
10	Medical (M5)	2 x 11	100	2.2	1
15	Medical (M5)	2 x 11	100	2.2	1

Diagrams

Standard version

Medical version (M5)





1) Line 2) Load

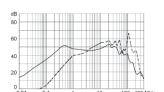
1) Line 2) Load

 $_$ 50 Ω common mode

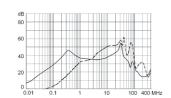
Attenuation Loss

Standard version

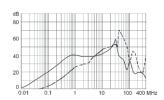
1 A



2 A

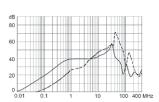


3 A

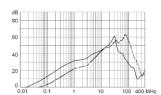


4 A

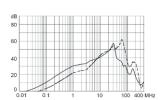
- - - - 50Ω differential mode



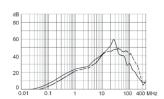
6 A



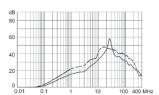
8 A



10 A

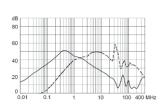


15 A

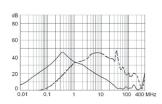


Medical version (M5)

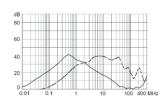
1 A



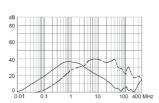
2 A



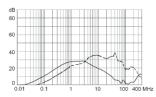
3 A



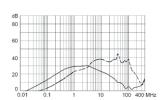
4 A



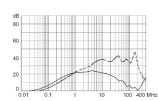
6 A



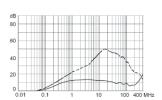
8 A

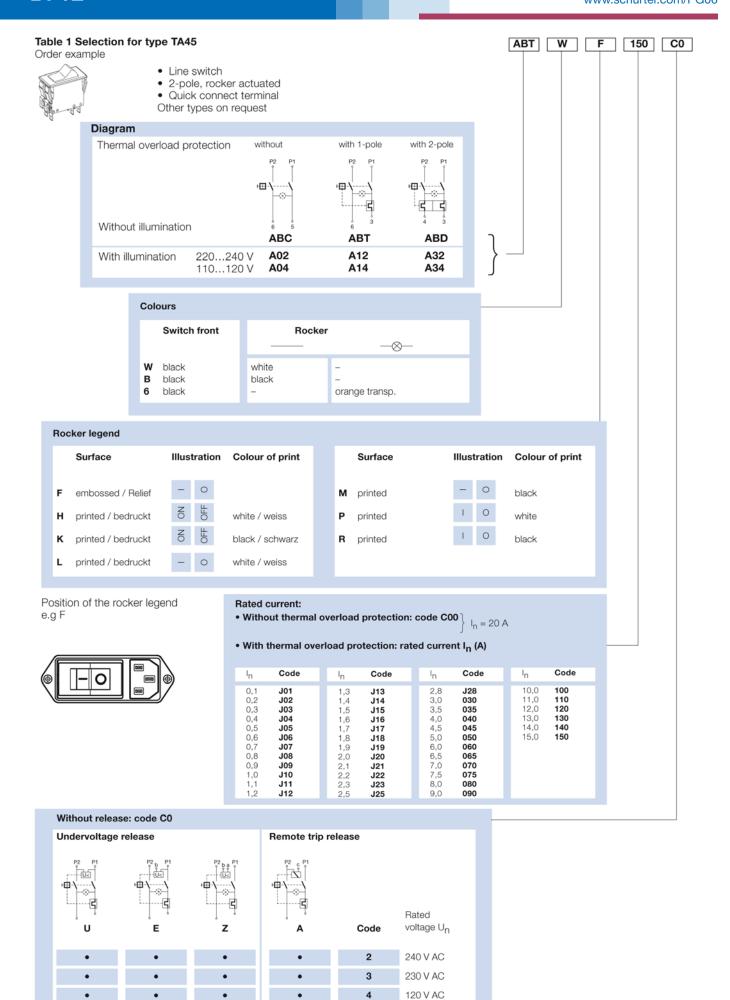


10 A



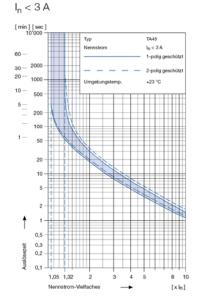
15 A



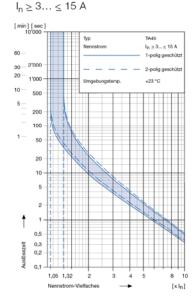


Technical data (continued) Circuit breaker

Tripping characteristics



Tripping characteristics



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

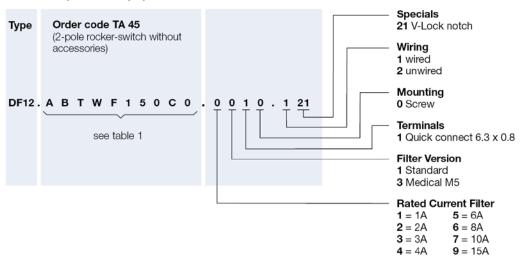
-	-10	0,89
-	- 5	0,91
	0	0,92
	+23	1,00
	+30	1,03
	+40	1,08
	+55	1,16

* 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

Order code (Order example)



Please note that Schurter will establish an internal part number for logistical use in additional to the order code. The format of this internal part number is, for example DF12.xxxxxxx

Variants

Circuit Break	ers			Filter		Connectors				
Rated Cur- rent [A]	Rocker co- lour	Illumination	Add-on mo- dules	Rated Cur- rent [A]	Filter Type	Protection Class	V-Lock	Internally wired	Config. Code	Order Number
15	orange	illuminated	without	15	Standard	I		prewired	DF12.A326F150C0.9110.1	DF12.2851.9110.1
15	black	non-illumi- nated	without	15	Standard	I		prewired	DF12.ABDBL150C0.9110.1	DF12.1089.9110.1
15	white	non-illumi- nated	without	15	Standard	I		prewired	DF12.ABDWF150C0.9110.1	DF12.0885.9110.1
10	black	non-illumi- nated	without	10	Medical (M5)	I		prewired	DF12 .ABDBL100C0.7310.1	DF12.2078.7310.1
10	white	non-illumi- nated	without	10	Medical (M5)	I		prewired	DF12 .ABDWF100C0.7310.1	DF12.0470.7310.1
12	black	non-illumi- nated	without	15	Medical (M5)	I		prewired	DF12.ABDBL120C0.9310.1	DF12.2420.9310.1
15	black	non-illumi- nated	Remote trip release	15	Medical (M5)	I		prewired	DF12 .ABDBH150A3.9310.1	DF12.4051.9310.1
15	white	non-illumi- nated	without	15	Medical (M5)	I		prewired	DF12.ABTWF150C0.9310.1	DF12.0031.9310.1
6	black	non-illumi- nated	without	6	Medical (M5)	I	•	prewired	DF12.ABDBP060C0.5310.121	DF12.1488.5310.12

 $\label{thm:http://www.schurter.com/Stock-Check/Stock-Check-SCHURTER} A \textit{vailability for all products can be searched real-time:http://www.schurter.com/Stock-Check/Stock-Check-SCHURTER}$

Packaging unit

20 Pcs

Accessories

Description



Assorted Covers Rear Cover

0859.0109

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 DF12

Connector Overview complete



4782 Mounting: Power Cord, 3 x 1 mm 2 / 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 mm 2 / 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 DF12	

Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC13KS, Overview, diverse Connector IEC C13, cord end:

VAC13KS

Power Cord further types to DF12