IEC Appliance Inlet C14 with Filter, Circuit Breaker TA45 (recessed)





Standard- or Medical-Filter













Description

- 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, Distributor-Stock-Check, Accessories, Detailed request for product

Technical Data

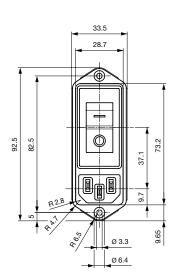
Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.5 mA (250 V / 60 Hz)
	medical < 5 μA (250 V / 60 Hz)
Dielectric Strength	> 1.7 kVDC between L-N
-	> 2.7 kVDC between L/N-PE
	Test voltage (2 sec)
Allowable Operation Temp.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

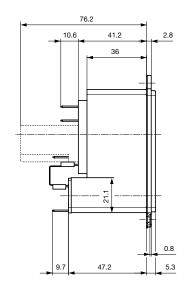
appliance inlet/-outlet	C14 acc. to IEC 60320-1
appliance inlev-outlet	
	UL 498, CSA C22.2 no. 42 (for cold
	conditions) pin-temperature 70 °C, 10 A,
	Protection Class I
Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA
	22.2 no. 235
	2-pole rocker switch, illuminated or non-
	illuminated. Optional with 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

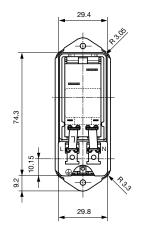
Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in General Product Information

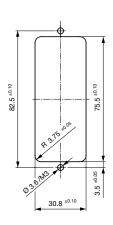
Dimension

Screw-on Version









* --- Version TA45 with undervoltage release

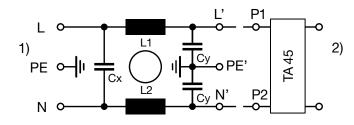
Technical Data of Filter-Components

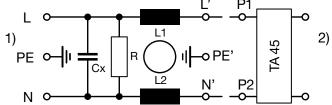
Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [M Ω]
15	Standard	2 x 11	100	2.2	1
6	Medical (M5)	2 x 11	100	2.2	1
10	Medical (M5)	2 x 11	100	2.2	1
15	Medical (M5)	2 x 11	100	2.2	1

Diagrams

Standard version

Medical version (M5)





1) Line 2) Load

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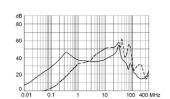
Attenuation Loss

Standard version

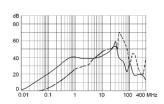
1 A



2 A

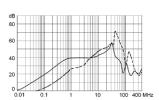


3 A

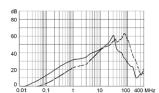


4 A

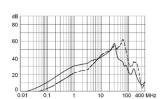
---- 50Ω differential mode _____ 50Ω common mode



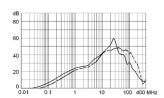
6 A



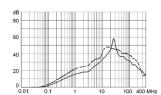
8 A



10 A

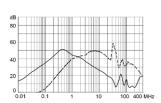


15 A

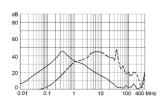


Medical version (M5)

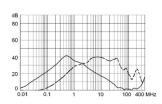
1 A



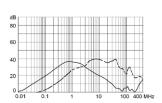
2 A



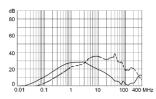
3 A



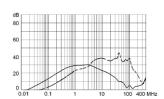
4 A



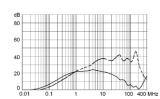
6 A



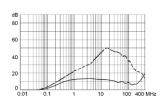
8 A

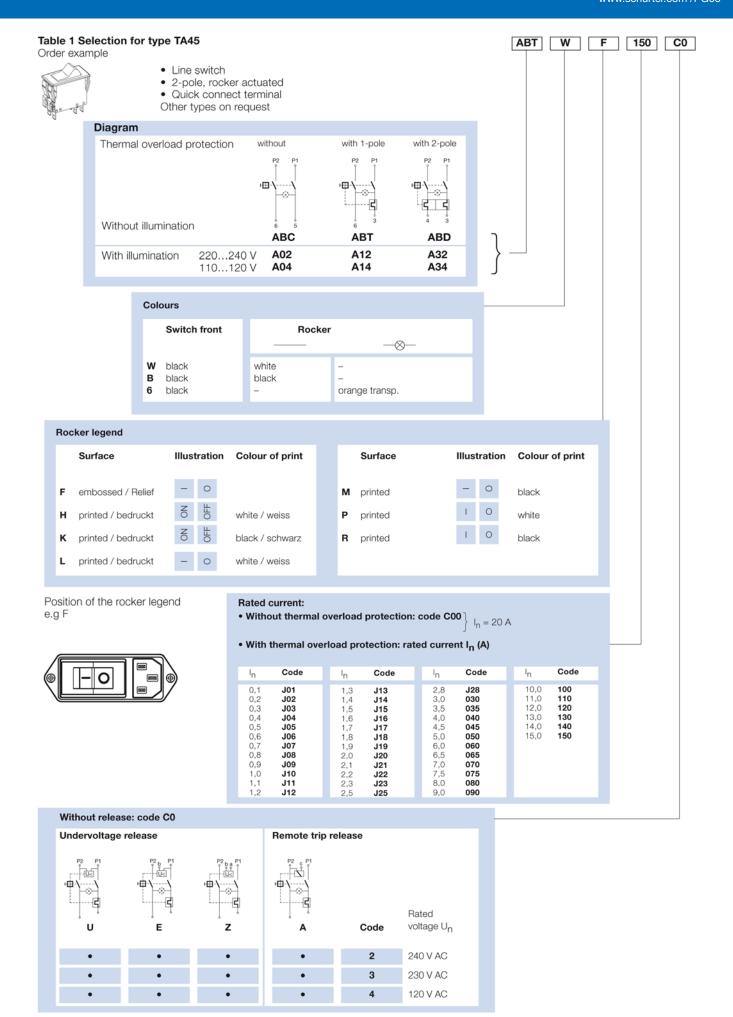


10 A



15 A

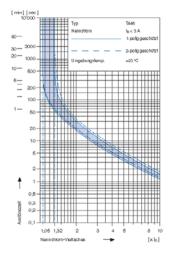




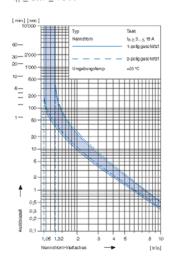
Technical data (continued) Circuit breaker

Tripping characteristics

 $I_n < 3 A$



Tripping characteristics $I_n \ge 3... \le 15 A$



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.

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

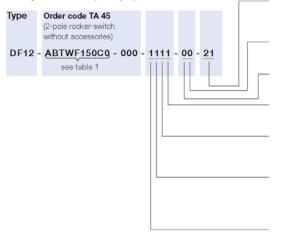
* Ambient temperature [°C] Correction factor

-10	0,89
- 5	0,91
0	0,92
+23	1,00
+23 +30 +40	1,03
+40	1,08
155	1 16

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 × 1,08 = 6,5 A

Configuration code (example)



Optional Variants 00 standard 21 V-Lock notch

Colour

0 black

Mounting O Screw mounting

Terminal PE

1 QC 6.3x0.8

Terminal L and N 1 QC 6.3x0.8

3 Connection to TA45 non insulated

Type of mains filter / capacitor / bleed resistor

with bleed resistor 1 standard X2, Y2 X2 3 medical M5 with bleed resistor

Rated current 1)

1A

2A

ЗА

88

1) The rated current of the line-filter must be equal or more than the rated current of TA45

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





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 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm ² / 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

5 02 2017

Mouser Electronics

Authorized Distributor

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

Schurter:

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DF12.0890.9310.1 DF12.0885.9310.1 DF12.2851.9110.1 DF12.0031.9110.1 DF12.0470.9310.1 DF12.0470.7310.1 DF12.3000.9310.1 DF12.1593.7310.1 DF12.3417.9110.1 DF12.0991.5310.1 DF12.0847.5310.1 DF12.0847.5310.1 DF12.1250.7110.1 DF12.1250.7110.1 DF12.1250.7110.1 DF12.1250.3310.2 DF12.1250.7110.1 DF12.1297.5110.1 DF12.1488.5310.1 DF12.1682.9110.1 DF12.1938.9310.1 DF12.2420.9310.1 DF12.3645.9310.1 DF12.2770.9110.1 DF12.1356.4110.1 DF12.0586.5110.1 DF12.0031.9310.1 DF12.0885.9110.1 DF12.0470.7110.1 DF12.0646.6110.1 DF12.0861.7110.1 DF12.3609.3310.1 DF12.3593.7110.1
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