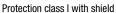
IEC Appliance Inlet C14 or C18 with Filter, Circuit Breaker TA45







Protection class II without shield





70° C 70° C

70 0 70 0

Description

- Panel Mount :
- Screw-on mounting from front side
- 3 Functions:
- Appliance Inlet protection class I or II , circuit breaker type TA45 2-pole , Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition

- Compact power entry module with circuit breaker
- High configurability
- Easy assembly with prewired modules
- Protection class I or II

Approvals and Compliances

Characteristics

- All single elements are already wired
- Unwired versions available on request
- Circuit Breaker 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

References

Alternative: version without line filter 6145 We recommend for new applications the new type DF12

Weblinks

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Accessories, Detailed request for product, Microsite

Technical Data

1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
1 - 15 A @ Ta 40 °C / 125 VAC; 60 Hz
standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)
> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)
-10 °C to 55 °C
10/055/21 acc. to IEC 60068-1
from front side IP 40 acc. to IEC 60529
Suitable for appliances with protection class I or II acc. to IEC 61140
Quick connect terminals 6.3 x 0.8 mm
Screw: max 8 mm Mounting screw torque max 0.5 Nm
Thermoplastic, black, UL 94V-0

appliance inlet/-outlet	C14 or C18 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II
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 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

Approvals and Compliances

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in Details about Approvals

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: 5145

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40035745
c A1 ° us	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
<u>IEC</u>	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
(N)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(N)	Designed according to	UL 1283	Electromagnetic interference filters
CSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
GF Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards

Application standards where the product can be used

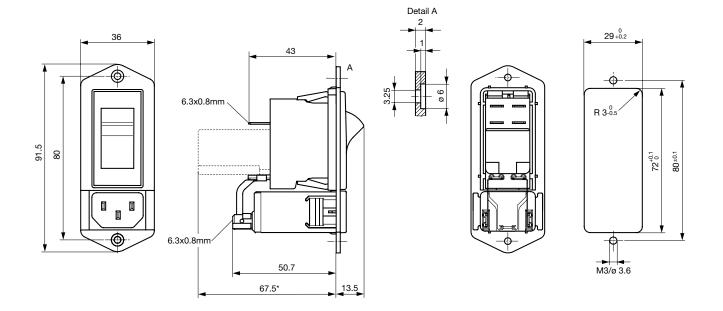
Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.
<u>IEC</u>	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
ROHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
(31)	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
REACH	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.
Ť	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimension [mm]



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

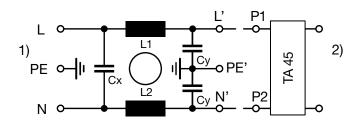
Technical Data of Filter-Components

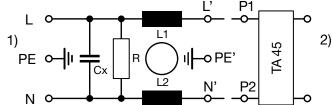
Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 11	47	2.2	-
2	Standard Version	2 x 4	47	2.2	-
3	Standard Version	2 x 2.5	47	2.2	-
4	Standard Version	2 x 1.6	47	2.2	-
6	Standard Version	2 x 0.7	47	2.2	-
8	Standard Version	2 x 0.6	47	2.2	-
10	Standard Version	2 x 0.4	47	2.2	-
15	Standard Version	2 x 0.1	47	2.2	-
1	Medical Version (M5)	2 x 11	47	-	1
2	Medical Version (M5)	2 x 4	47	-	1
6	Medical Version (M5)	2 x 0.7	47	-	1
8	Medical Version (M5)	2 x 0.6	47	-	1
10	Medical Version (M5)	2 x 0.4	47	-	1
15	Medical Version (M5)	2 x 0.1	47	-	1

Diagrams

Standard version

Medical version (M5)



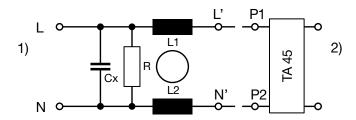


1) Line

2) Load

1) Line 2) Load

Medical filter (M5) protection class II



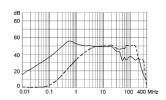
1) Line 2) Load

,

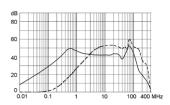
Attenuation Loss

Standard version

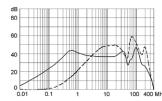
1 A



2 A

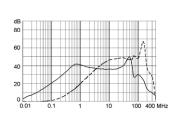


3 A



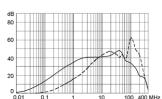
4 A

- - - - 50Ω differential mode _

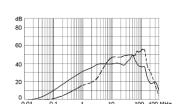


 50Ω common mode

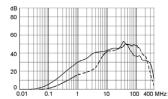
6 A



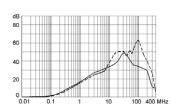
8 A



10 A

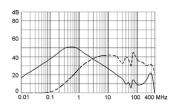


15A

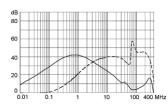


Medical version (M5)

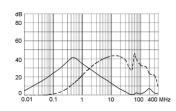
1 A



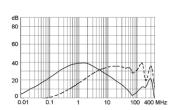
2 A



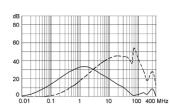
3 A



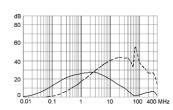
4 A



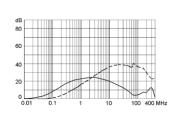
6 A



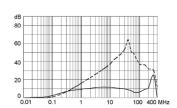
8 A

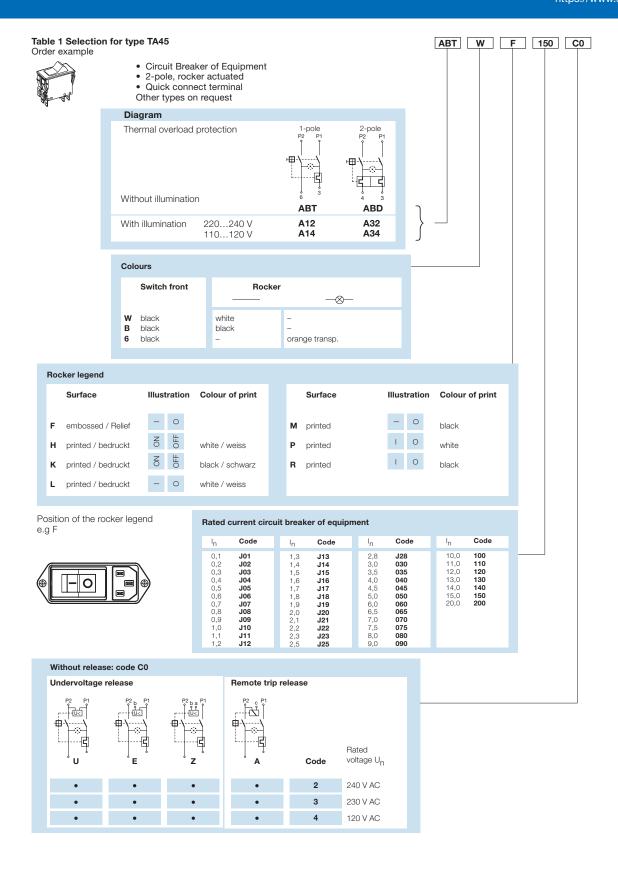


10 A



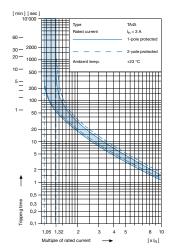
15A



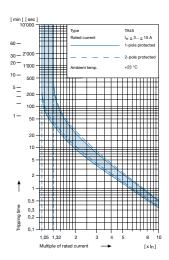


Technical data (continued) Circuit breaker

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.

* 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	

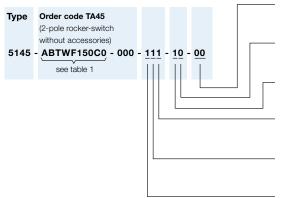
* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been

1) Example

6,0 A
+40 °C
1,08

6 A x 1,08 = 6,5 A + 40 °C ambient temperature

Configuration code (example)



Optional Variants 00 standard 21 V-Lock notch

Terminal PF

0 without (PCII) 1 QC 6.3x0.8

Terminal L and N 1 QC 6.3x0.8, without connection to TA45

3 Connection to TA45 non insulated

Metal Shield Filter

with metal shield (PCI)
 without metal shield (PCI and PCII)

Type of mains filter / capacitor / bleed resistor 1 standard X2,Y2 without

1) 3 medical M5 X2 with

Rated current 2)

- 1A 2A
- 1 2 3 4 5 6 7 8 3A 4A
- 6A 8A
- 10A 15A

- 1) Not in conjunction with PC II
- 2) 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

0859.0074

Mating Outlets/Connectors

Category / Description



Appliance Outlet Overview complete

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 5145





4782 Mounting: Power Cord, 3 x 1 mm² / 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 5145	

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each

Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC17KS Power cord with IEC connector C17, V-Lock, straight

product selected for their own applications.

Power Cord further types to 5145