

IEC Appliance Inlet C14 with Filter, Fuseholder 1- or 2-pole, Line Switch 2-pole



Order required accessories separately



Approvals and Compliances

Description

- Panel Mount :
Screw-on from front side
- 4 Functions :
Appliance Inlet Protection class I , Line Switch 2-pole , Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole , Line filter in standard and medical version
- V-Lock notch standard
- Quick connect terminals 6.3 x 0.8 mm

Unique Selling Proposition

- Most compact power entry module
- Attractive flat design
- Switch for highest inrush current
- V-Lock cord retaining

Characteristics

- Ultra-compact design. Ideal for low profile designs
Aluminum case provides good shielding
- All single elements are already wired
- Fuse drawer meets requirements of medical standard IEC/EN 60601-1
- Ideal for application with high transient loads
- 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

- Solder terminals
- Fuse drawer 1-pole, plus spare fuse case
- Fuse drawer 2-pole, with shorting bar
- Other rocker marking
- Line switch, illuminated
- Line switch 1-pole
- Medical version M80
- Class X1- and Y1-capacitors for enhanced withstand voltage

References

- Alternative: version without line filter [DD11](#)
- Alternative: version for snap-in mounting [KMF](#)
- Alternative: Standard version

Weblinks

[pdf datasheet](#), [html-datasheet](#), [General Product Information](#), [Distributor Stock-Check](#), [Accessories](#), [Detailed request for product](#), [Microsite](#)

Technical Data

Ratings IEC	1 - 10A @ Ta 40 °C / 250VAC; 50Hz
Ratings UL/CSA	1 - 8A @ Ta 40 °C / 250VAC; 60Hz
Leakage Current	standard < 0.5mA (250V / 60Hz) medical < 5 µA (250 V / 60 Hz)
Dielectric Strength	> 1.7kVDC between L-N > 2.7kVDC between L/N-PE Test voltage (1 min/50Hz)
Allowable Operation Temperature	-25 °C to 85 °C
Climatic Category	25/085/21 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-on mounting: max 8mm Mounting screw torque max 0.5Nm
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, 10A, Protection Class I
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2W (1 pole)/ 1.6W (2-pole) per pole
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line Switch	Rocker switch 2-pole, non-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	> 2'000'000h 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: DD12

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40001522
	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
	Designed according to	UL 1283	Electromagnetic interference filters
	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
	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
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
	Designed for applications acc.	IEC 60335-1	Safety of electrical appliances for household and similar purposes. Meets the requirements for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-12 and -13.

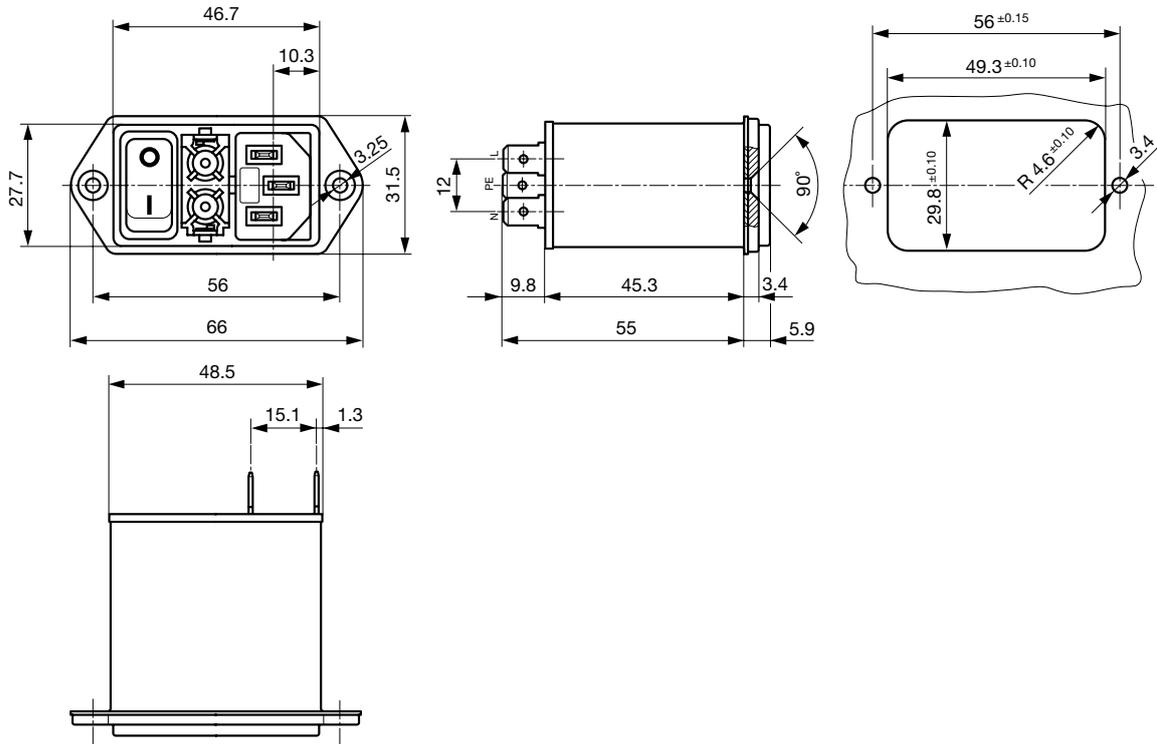
Compliances

The product complies with following Guide Lines

Identification	Details	Initiator	Description
	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	SCHURTER AG	EU Directive RoHS 2011/65/EU
	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	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.
	MicrositeV-Lock	SCHURTER AG	V-Lock system are based on a matching plug-dose combination. 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.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimension [mm]

Screw version

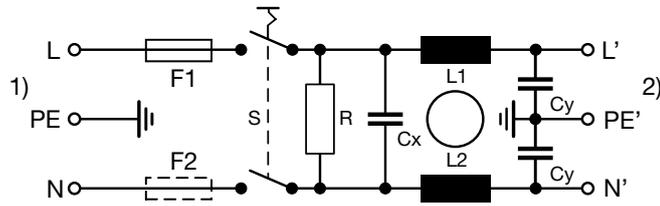


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 10	100	2.2	1
2	Standard Version	2 x 4	100	2.2	1
4	Standard Version	2 x 1.5	100	2.2	1
6	Standard Version	2 x 0.8	100	2.2	1
8	Standard Version	2 x 0.6	100	2.2	1
10	Standard Version	2 x 0.3	100	2.2	1
1	Medical Version (M5)	2 x 10	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
4	Medical Version (M5)	2 x 1.5	100	-	1
6	Medical Version (M5)	2 x 0.8	100	-	1
8	Medical Version (M5)	2 x 0.6	100	-	1
10	Medical Version (M5)	2 x 0.3	100	-	1
1	Medical Version (M80)	2 x 10	100	0.47	1

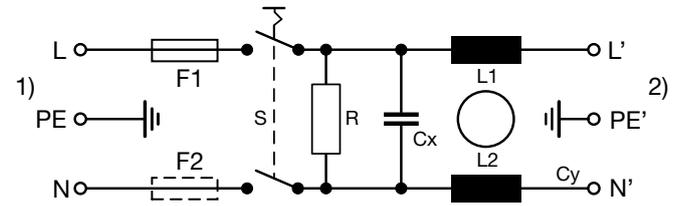
Diagrams

Standard version
 non-illuminated



1) Line
 2) Load

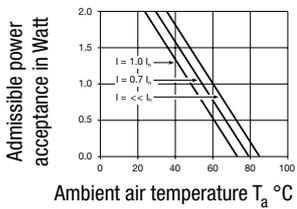
Medical version M5
 non-illuminated



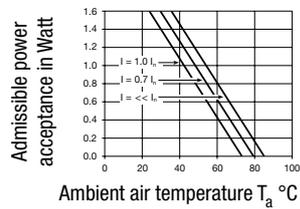
1) Line
 2) Load

Derating Curves

1-pole



2-pole

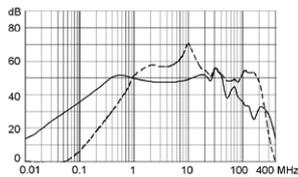


Attenuation Loss

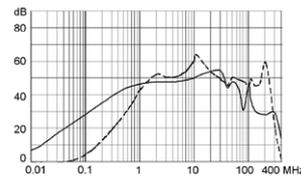
--- 50Ω differential mode ____ 50Ω common mode

Standard version

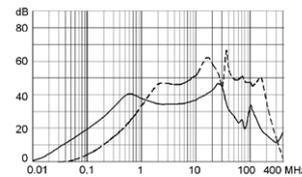
1 A



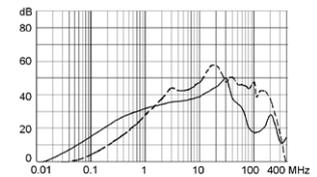
2 A



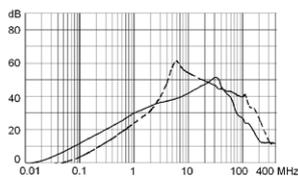
4 A



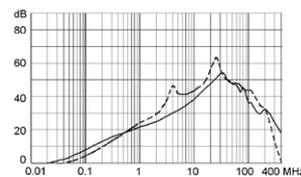
6 A



8 A

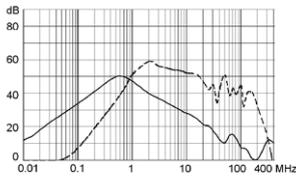


10 A

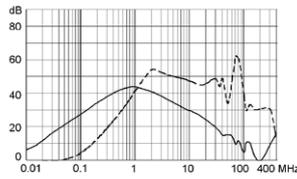


Medical version (M5)

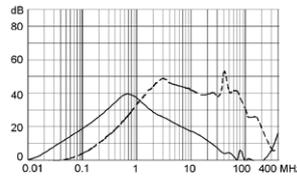
1 A



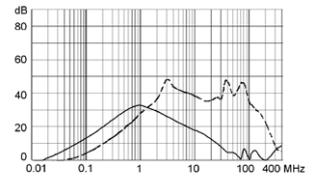
2 A



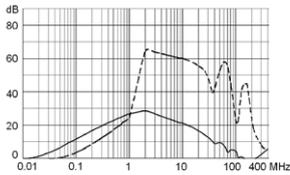
4 A



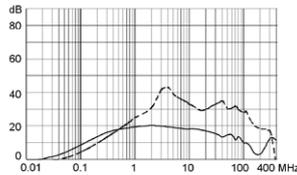
6 A



8 A



10 A



All Variants

Rated Current [A]	Filter-Type	Fuseholder	Line Switch	Illumination	Order Number
1	Standard Version	1-pole	2-pole	non-illuminated	DD12.1111.111
2	Standard Version	1-pole	2-pole	non-illuminated	DD12.2111.111
4	Standard Version	1-pole	2-pole	non-illuminated	DD12.4111.111
6	Standard Version	1-pole	2-pole	non-illuminated	DD12.6111.111
8	Standard Version	1-pole	2-pole	non-illuminated	DD12.8111.111
10	Standard Version	1-pole	2-pole	non-illuminated	DD12.9111.111
1	Standard Version	2-pole	2-pole	non-illuminated	DD12.1121.111
2	Standard Version	2-pole	2-pole	non-illuminated	DD12.2121.111
2	Standard Version	2-pole	2-pole	illuminated, red	DD12.2123.111
2	Standard Version	2-pole	2-pole	illuminated, green	DD12.2124.111
4	Standard Version	2-pole	2-pole	non-illuminated	DD12.4121.111
6	Standard Version	2-pole	2-pole	non-illuminated	DD12.6121.111
6	Standard Version	2-pole	2-pole	illuminated red	DD12.6123.111
8	Standard Version	2-pole	2-pole	non-illuminated	DD12.8121.111
10	Standard Version	2-pole	2-pole	non-illuminated	DD12.9121.111
1	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.1321.111
2	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.2321.111
4	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.4321.111
6	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.6321.111
8	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.8321.111
10	Medical Version (M5)	2-pole	2-pole	non-illuminated	DD12.9321.111
1	Medical Version (M80)	2-pole	2-pole	non-illuminated	DD12.1621.111

Most Popular.

Availability for all products can be searched real-time: <https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

10 A version only IEC approval.

Packaging unit 20 Pcs

Required Accessory

Description

Fusedrawer 2

Fusedrawer für Fuse Links 5x20 mm, with or without Voltage Selector Insert



Fingergrip, 2-pole	4301.1401
Extra-Safe, 2-pole	4301.1403
Fingergrip, 1-pole	4301.1405
Extra-Safe, 1-pole	4301.1407

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Accessories



Wire Harness

Wire harness for SCHURTER products



Assorted Covers

Rear Cover

0859.0076



Cord retaining kits

Cord retaining strain relief

Flat head, A

4700.0001

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 DD12

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 mm ² , 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 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4012 Mounting: Power Supply Cord, 3 x 1.5 mm ² , Screw clamps, Connector: IEC C13	4012

Connector further types to DD12

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Mating Outlets/Connectors shuttered



Power Cord Overview complete

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

VAC13KS

Power Cord further types to DD12