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

new



Screw-on mounting horizontal (version B)
Order required accessories separately



Screw-on mounting vertical (version A)



Snap-in mounting

C14



70° C

See below:
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

- Various mounting options
- 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: version with 2-stage filter DD14

Weblinks

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

Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 8 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 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 8 mm Mounting screw torque max 0.5 Nm Snap-in: 1 mm to 3 mm
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
Fuseholder	1 or 2 pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Rated Power Acceptance @ Ta 23 °C	5 x 20: 2 W (1 pole)/ 1.6 W (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	> 2'000'000 h 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

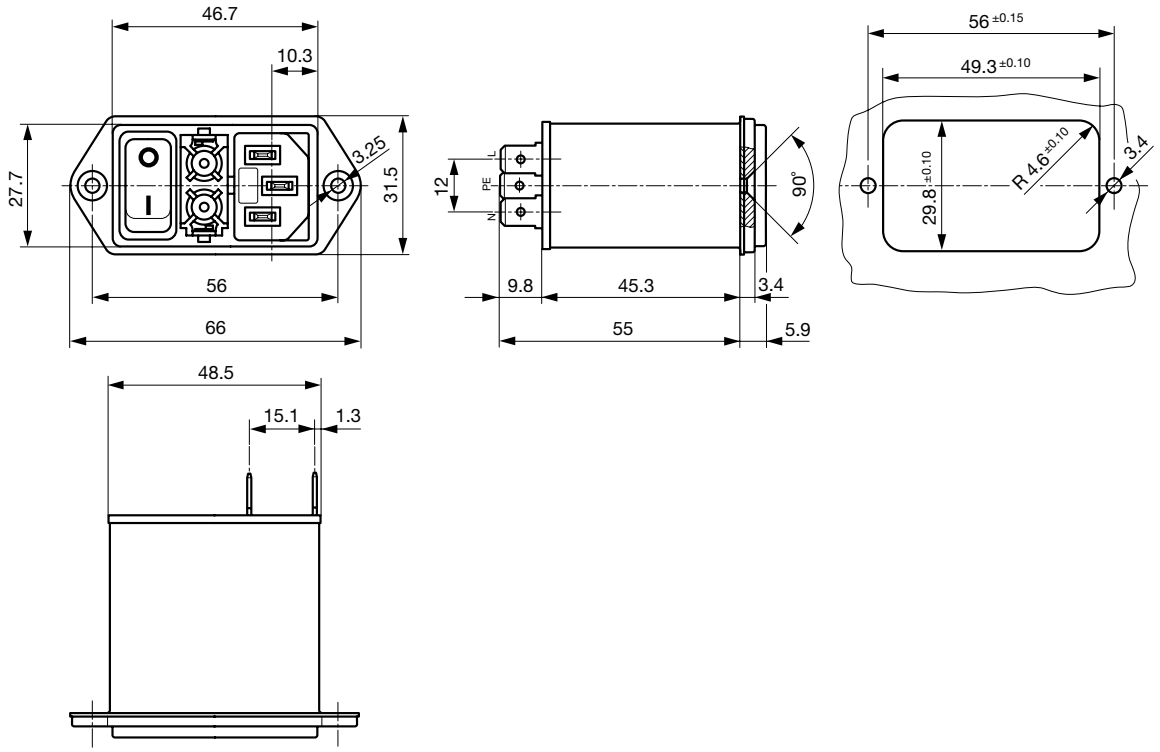
Organization	Design	Standard	Description
	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety 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

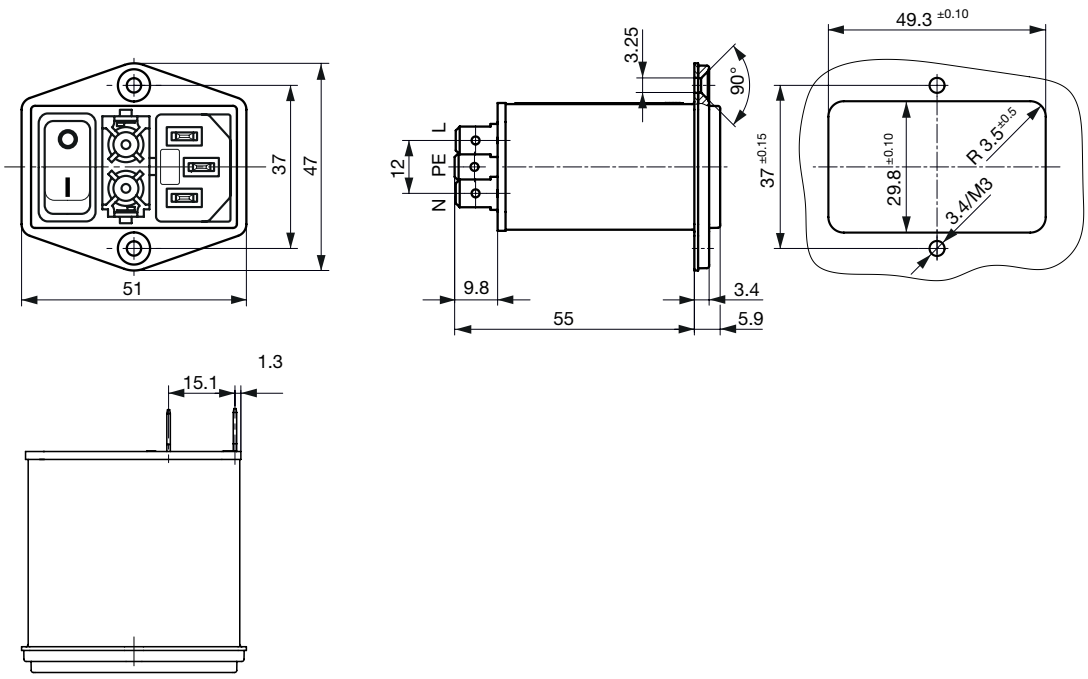
The product complies with following Guide Lines

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.
	Microsite V-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.
	White paper Glow wire test	SCHURTER AG	Meets the requirements of IEC 60335-1 for appliances in unattended use. This includes the enhanced requirements of glow wire tests acc. to IEC 60695-2-12 and -13.
	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

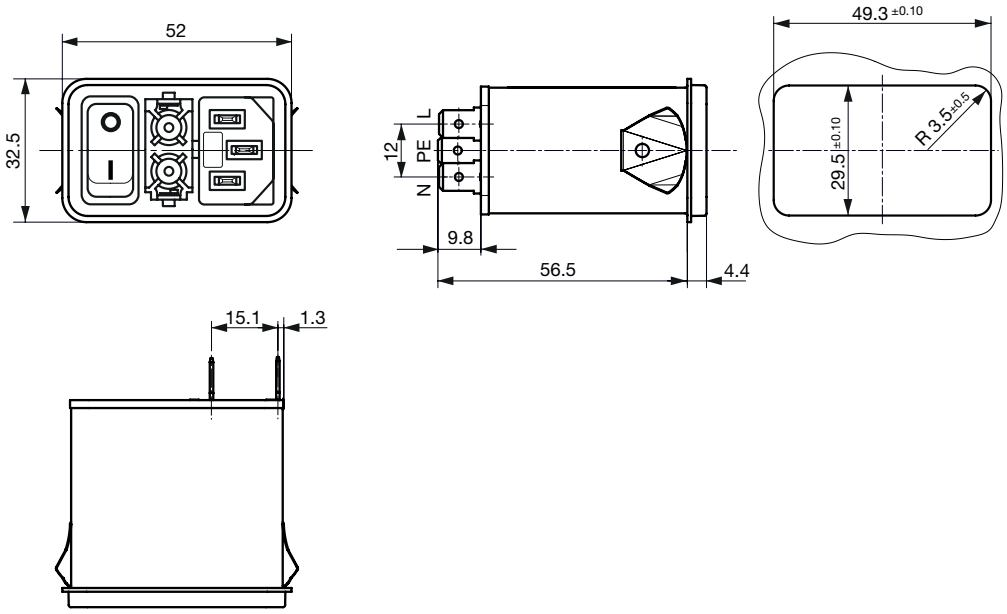
Dimensions [mm]
Screw version A



Screw version B



Snap-in mounting from front side

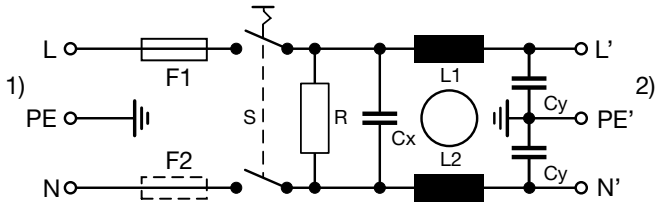


Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductance L1/ L2 [mH]	Inductance L3 [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
6	Standard Version with Ground Line Choke	2 x 0.8	-	100	2.2	1
10	Standard Version with Ground Line Choke	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

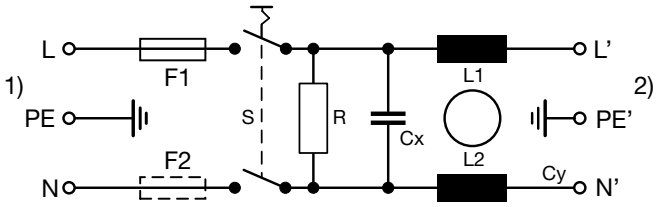
Diagrams

Standard Version, medical Version M80
non-illuminated



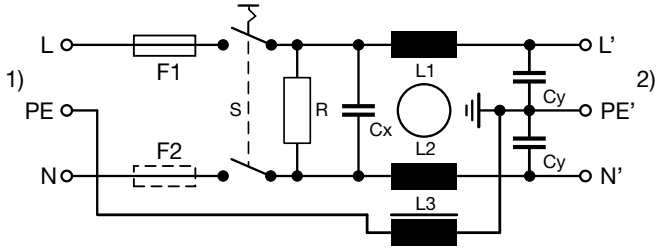
1) Line
2) Load

Medical version M5
non-illuminated



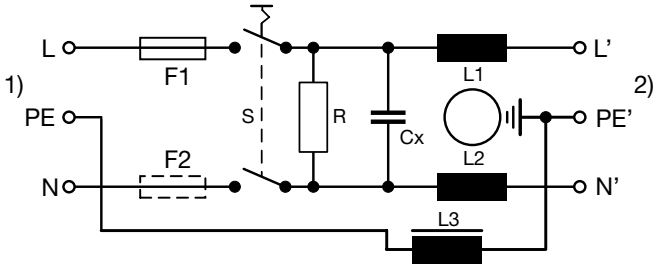
1) Line
2) Load

Standard Version, medical Version M80
with PE-choke



1) Line
2) Load

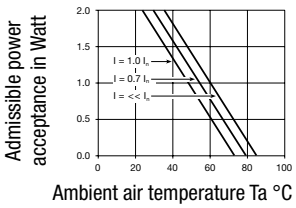
Medical version M5
with PE-choke



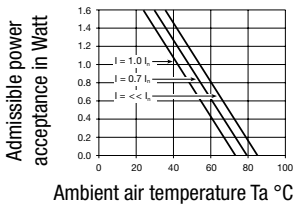
1) Line
2) Load

Derating Curves

1-pole



2-pole

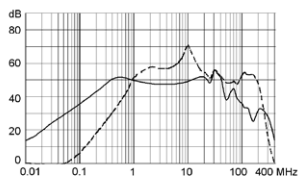


Attenuation Loss

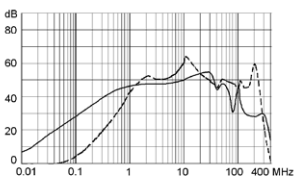
- - - - 50Ω differential mode _____ 50Ω common mode

Standard version

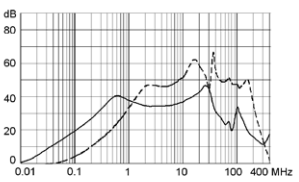
1 A



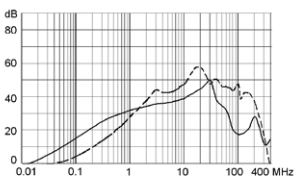
2 A



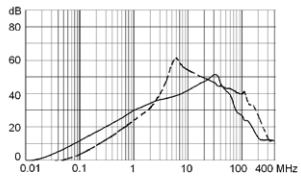
4 A



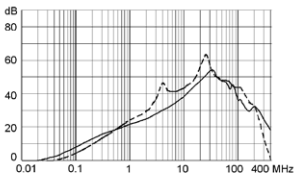
6 A



8 A

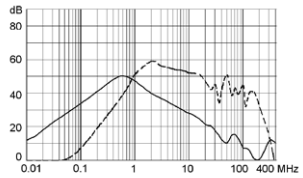


10 A

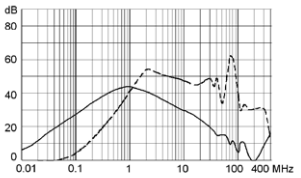


Medical version (M5)

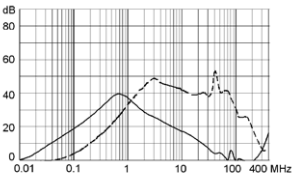
1 A



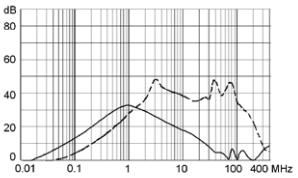
2 A



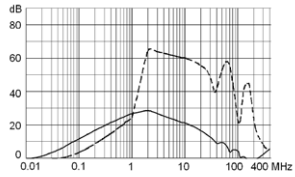
4 A



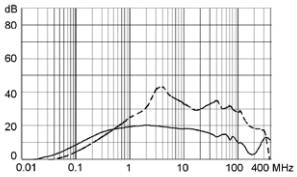
6 A



8 A



10 A



All Variants

Rated Current [A]	Filter-Type	Mounting	Fuseholder	Line Switch	Illumination	Color	Order Number
1	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.1111.111
1	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-465
1	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-109-955
1	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.1121.111
2	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.2111.111
2	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-466
2	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-109-956
2	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.2121.111
2	Standard Version	Screw-on A	2-pole	2-pole	illuminated, red	black	DD12.2123.111
2	Standard Version	Screw-on A	2-pole	2-pole	illuminated, green	black	DD12.2124.111
4	Standard Version	Screw B	1-pole	2-pole	non-illuminated	black	3-110-001
4	Standard Version	Snap-in	1-pole	2-pole	non-illuminated	black	3-110-032
4	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.4111.111
4	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-467
4	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-109-957
4	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.4121.111
6	Standard Version	Snap-in	1-pole	2-pole	non-illuminated	black	3-110-010
6	Standard Version	Screw B	1-pole	2-pole	non-illuminated	black	3-110-031
6	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.6111.111
6	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-102-857
6	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-102-861
6	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.6121.111
6	Standard Version	Screw-on A	2-pole	2-pole	illuminated red	black	DD12.6123.111
8	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.8111.111
8	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-468
8	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-109-958
8	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.8121.111
10	Standard Version	Screw-on A	1-pole	2-pole	non-illuminated	black	DD12.9111.111
10	Standard Version	Screw B	2-pole	2-pole	non-illuminated	black	3-105-315
10	Standard Version	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-469
10	Standard Version	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.9121.111
6	Standard Version with Ground Line Choke	Screw B	2-pole	2-pole	non-illuminated	black	3-109-943

Rated Current [A]	Filter-Type	Mounting	Fuseholder	Line Switch	Illumination	Color	Order Number	
10	Standard Version with Ground Line Choke	Screw-on A	2-pole	2-pole	non-illuminated	black	3-102-855	
1	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-472	▮
1	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-109-994	
1	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.1321.111	▮
2	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-473	▮
2	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-109-995	
2	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.2321.111	▮
4	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-474	▮
4	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-109-997	
4	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.4321.111	▮
6	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-475	▮
6	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-109-998	
6	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.6321.111	▮
8	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-476	▮
8	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-109-999	
8	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.8321.111	▮
10	Medical Version (M5)	Snap-in	2-pole	2-pole	non-illuminated	black	3-107-477	▮
10	Medical Version (M5)	Screw B	2-pole	2-pole	non-illuminated	black	3-110-000	
10	Medical Version (M5)	Screw-on A	2-pole	2-pole	non-illuminated	black	DD12.9321.111	▮
1	Medical Version (M80)	Screw-on A	2-pole	2-pole	non-illuminated	black	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 10 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
	...

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 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
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 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
IEC Connector C15 for hot conditions 120°C, Rewireable, Straight	4781
IEC Connector C15 for hot conditions 120°C, Rewireable, Angled	4784
Connector further types to DD12	...

Mating Outlets/Connectors shuttered



Power Cord Overview complete

VAC13KS, Overview, diverse Connector IEC C13, cord end:	VAC13KS
Power Cord further types to DD12	

20.09.2018

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 product selected for their own applications.

Mouser Electronics

Authorized Distributor

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

Schurter:

DD12.1111.111 DD12.1121.111 DD12.1321.111 DD12.2111.111 DD12.2121.111 DD12.2321.111 DD12.4111.111
DD12.4121.111 DD12.4321.111 DD12.6111.111 DD12.6121.111 DD12.6321.111 DD12.9111.111 DD12.9121.111
DD12.9321.111 DD12.6123.111 DD12.8121.111 DD12.8111.111 DD12.8321.111 DD12.6324.111