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

Screw-on mounting
from front side
Standard version
Aluminum

Nickel plated steel

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Screw-on mounting from front side
- 4 Functions :
  Appliance Inlet Protection class I , Line Switch 2-pole , Fuseholder for fuse-links 5 x 20 mm 1-pole , Line-filter in standard version
- Quick connect terminals 6.3 x 0.8 mm

Characteristics
- Compact design with optimal shielding
- All single elements are already wired
- Plug removal necessary for fuse-link replacement
- With EMC-shield
- 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
- Medical version M80

References
Alternative: version with 2-stage filter   FKHD

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

Technical Data

Ratings IEC	1 - 10 A @ Ta 40 °C / 250 VAC; 50 Hz	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
Ratings UL/CSA	1 - 10 A @ Ta 40 °C / 250 VAC; 60 Hz		
Leakage Current	standard < 0.25 mA (250 V / 60 Hz)		
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)	Fuseholder	1-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20 mm
Allowable Operation Temperature	-25 °C to 85 °C	Rated Power Acceptance @ Ta 23 °C	5 x 20: 1.6 W (1 pole)
Climatic Category	25/085/21 acc. to IEC 60068-1	Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
IP-Protection	from front side IP40 acc. to IEC 60529		
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140	Line Switch	2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details
Terminal	Quick connect terminals 6.3 x 0.8 mm		
Panel Thickness S	Screw: max 8 mm Mounting screw torque max 0.5 Nm	Line Filter	Standard Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details
Material: Housing	Thermoplastic, black, UL 94V-0	MTBF	> 1'700'000 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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

Approvals

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

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40004665
	UL Approvals	UL	UL File Number: E72928

Product standards
Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
IEC	Designed according to	IEC 60127-6	Miniature fuses. Part 6. Fuse-holders for miniature fuse-links
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
UL	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
UL	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
CSA 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
IEC	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.
IEC	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC	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 60695-2-11 or -12 & -13.

Compliances
The product complies with following Guide Lines

| Identification	Details	Initiator	Description
CE	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	Directive RoHS 2011/65/EU, Amendment (EU) 2015/836
	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.
	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 60695-2-11 or -12 &-13.
	Medical Technology	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1

Dimension [mm]

Case 45
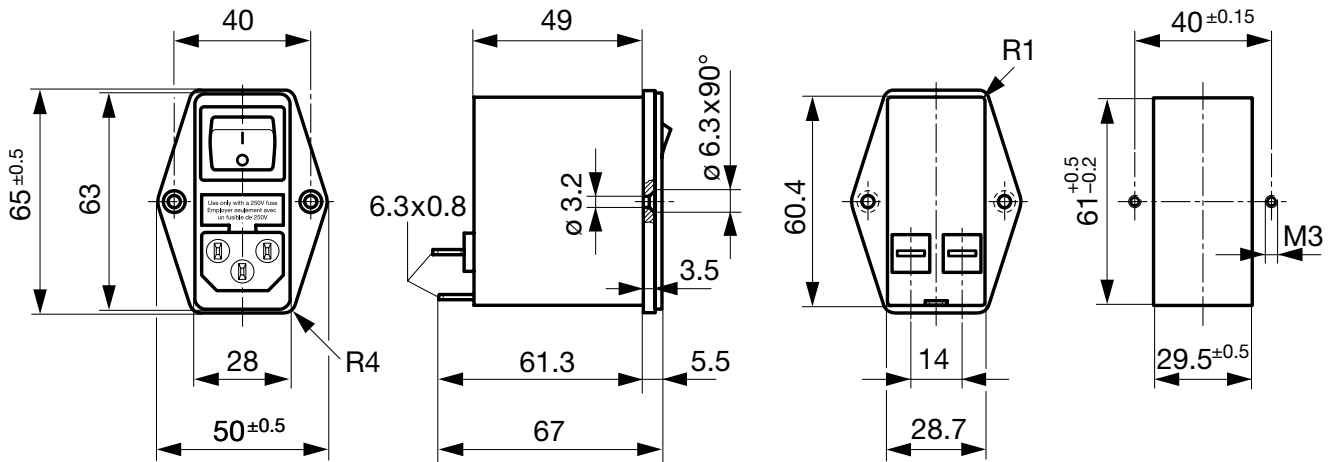
Case 50
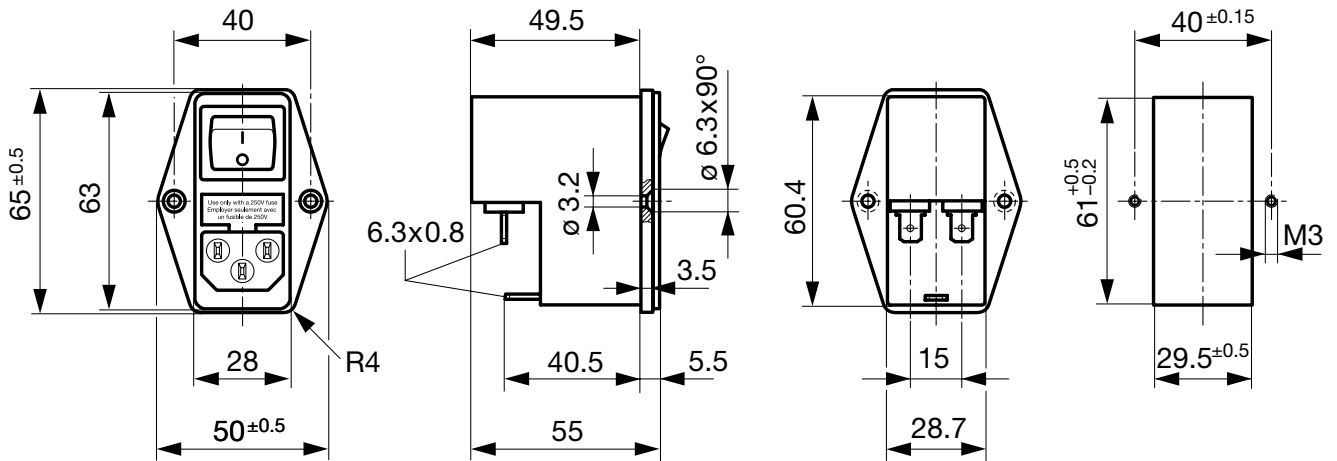
Technical Data of Filter-Components

| Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 10	68	2.2	1
2	Standard Version	2 x 4	68	2.2	1
4	Standard Version	2 x 1.5	68	2.2	1
6	Standard Version	2 x 0.8	68	2.2	1
10	Standard Version	2 x 0.3	68	2.2	1
1	Medical Version (M5)	2 x 10	68	-	1
2	Medical Version (M5)	2 x 4	68	-	1
4	Medical Version (M5)	2 x 1.5	68	-	1
6	Medical Version (M5)	2 x 0.8	68	-	1
10	Medical Version (M5)	2 x 0.3	68	-	1

Diagrams

Standard version
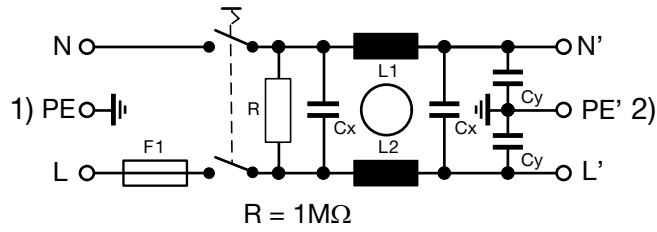
1) Line
2) Load

Medical version (M5)
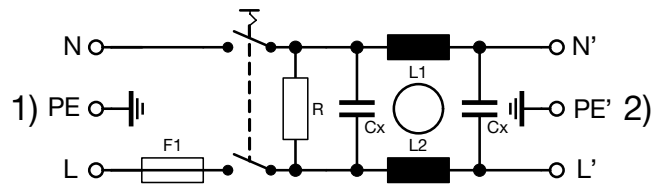
1) Line
2) Load

Derating Curves

1-pole
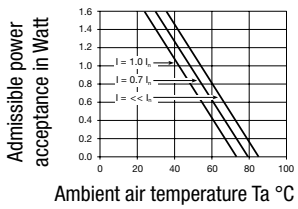
Attenuation Loss

Standard version

- - - - 50Ω differential mode _____ 50Ω common mode
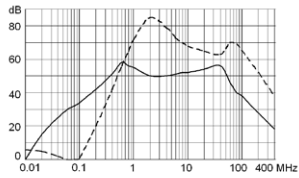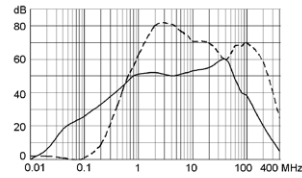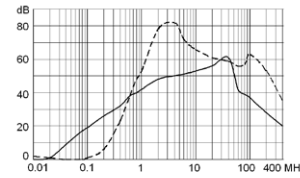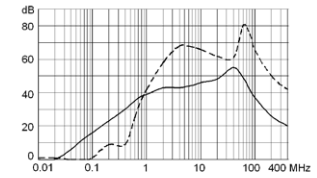
1 A	2 A	4 A	6 A

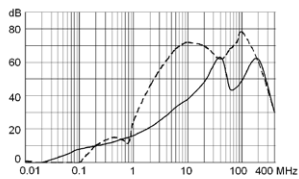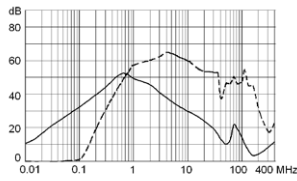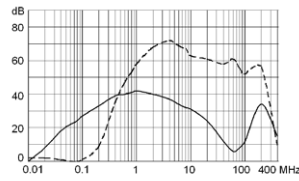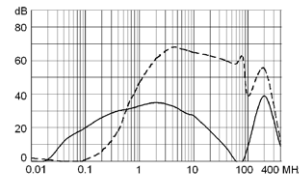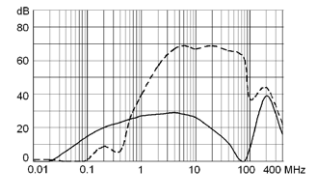### 10 A

Medical version (M5)

1 A

2 A

4 A

6 A

10 A
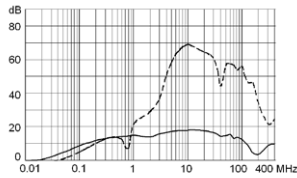
All Variants

Type	Rated Current [A]	Filter-Type	Fuseholder	Line Switch	Housings	Material: Housing	Order Number	
FKH	1	Standard Version	1-pole	2-pole	45	Aluminum	4304.4041	
FKH	2	Standard Version	1-pole	2-pole	45	Aluminum	4304.4042	
FKH	4	Standard Version	1-pole	2-pole	45	Aluminum	4304.4043	
FKH	6	Standard Version	1-pole	2-pole	45	Aluminum	4304.4044	
FKH	10	Standard Version	1-pole	2-pole	45	Aluminum	4304.4045	
FKH	1	Medical Version (M5)	1-pole	2-pole	45	Aluminum	4304.4046	
FKH	2	Medical Version (M5)	1-pole	2-pole	45	Aluminum	4304.4047	
FKH	4	Medical Version (M5)	1-pole	2-pole	45	Aluminum	4304.4048	
FKH	6	Medical Version (M5)	1-pole	2-pole	45	Aluminum	4304.4049	
FKH	10	Medical Version (M5)	1-pole	2-pole	45	Aluminum	4304.4050	
FKH	1	Standard Version	1-pole	2-pole	50	Nickel plated steel	4304.4001	▌
FKH	2	Standard Version	1-pole	2-pole	50	Nickel plated steel	4304.4002	
FKH	4	Standard Version	1-pole	2-pole	50	Nickel plated steel	4304.4003	▌
FKH	6	Standard Version	1-pole	2-pole	50	Nickel plated steel	4304.4004	▌
FKH	10	Standard Version	1-pole	2-pole	50	Nickel plated steel	4304.4005	▌

▌ Most Popular.

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

Packaging unit	10 Pcs

Accessories

Description
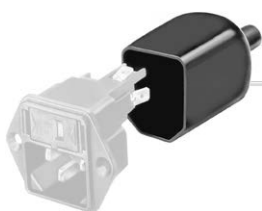
Assorted Covers
Rear Cover

0859.0074

Mating Outlets/Connectors

Category / Description

Appliance Outlet Overview complete

4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with protection class I	4787
4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder terminals or quick connect terminals, 10 A, Suitable for appliances with protection class I	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

Appliance Outlet further types to FKH

Connector Overview complete

4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4012 Mounting: Power Supply Cord, 3 x 1 mm², Screw clamps, Connector: IEC C13	4012
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

Connector further types to FKH ...