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

Screw-on mounting
from front side
Aluminum

Screw-on mounting
from front side
Nickel plated steel

C14

70° C

See below:
Approvals and Compliances

Description
- Panel mount :
  Screw-on mounting front side
- 4 Functions :
  Appliance Inlet Protection class I , Line Switch 2-pole , Fuseholder for fuse-links 5 x 20 mm 2-pole , Line filter in standard and medical 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 medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)
  For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request
- Medical Version (M80)

References
Alternative: version with 2-stage filter   FKID
Alternative: version without line filter   6765
We recommend for new applications the type   DD12

Weblinks
pdf data sheet, html datasheet, General Product Information, Approvals, 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 - 10 A @ Ta 40 °C / 250 VAC; 60 Hz
Leakage Current	standard < 0.25 mA (250V / 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	front side IP40 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	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	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: 1.6W (2-pole)
Power Acceptance @ Ta > 23°C	Admissible power acceptance at higher ambient temperature see derating curves
Line 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	> 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: FKI

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40004665
	UL Approvals	UL	UR 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	Passive filters for suppressing electromagnetic interference
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	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements
IEC	Suitable for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance
IEC	Suitable 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

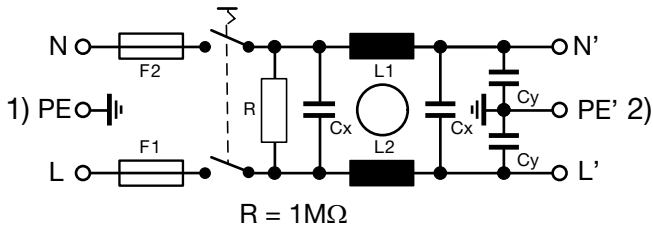| Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	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 Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1 (1 MOOP, 1 MOPP)

Dimension [mm]

Case 45
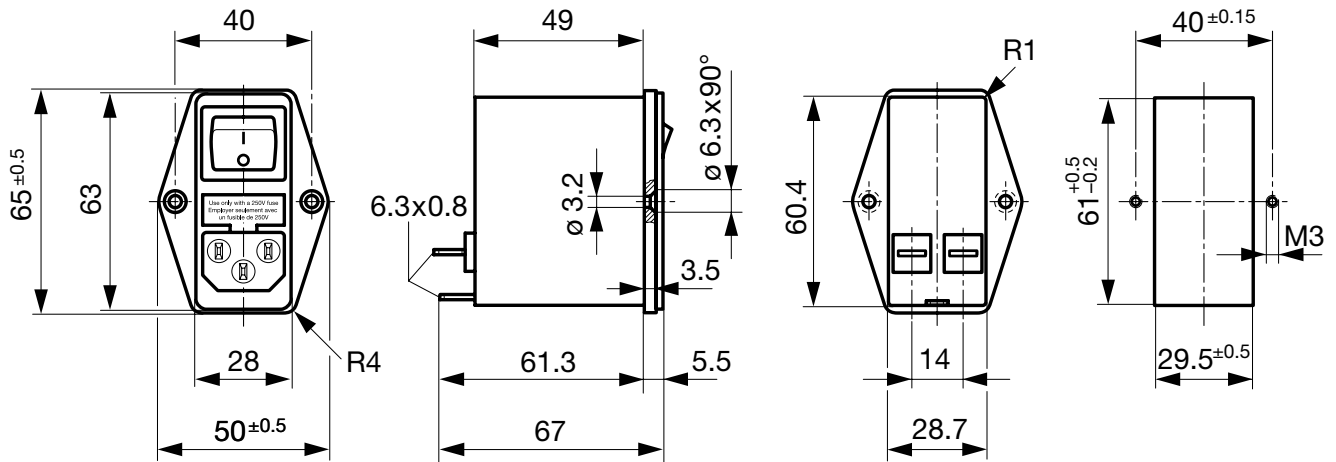
Case 50
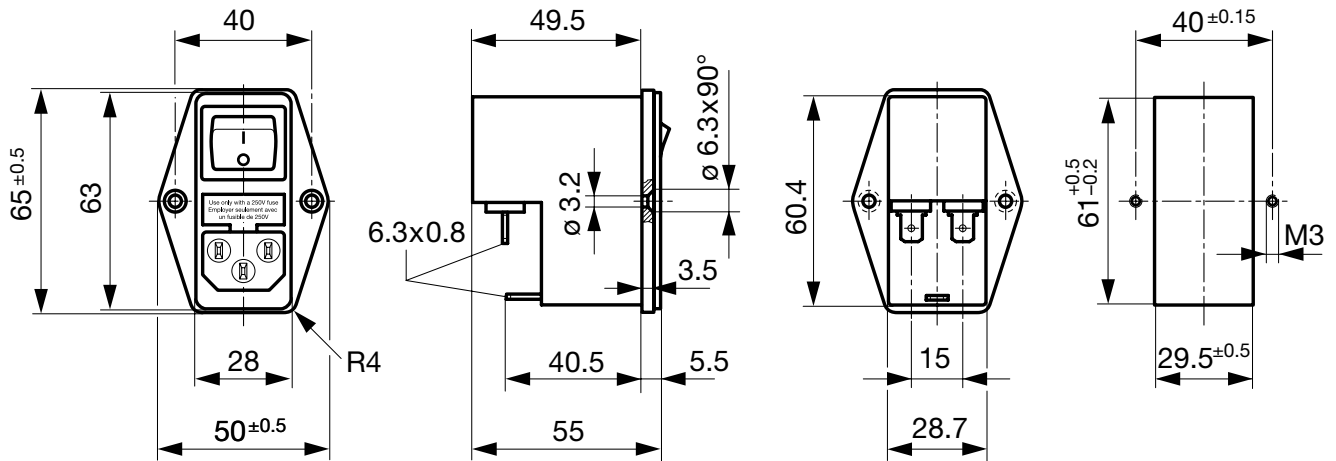
Technical Data of Filter-Components

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

N — F2

1) PE

L — F1

R

Cx

L1

L2

Cx

Cy

Cy

— N'

PE' 2)

— L'

R = 1MΩ

1) Line
2) Load

Medical Version (M5)

N — F2

1) PE

L — F1

R

Cx

L1

L2

Cx

— N'

PE' 2)

— L'

1) Line
2) Load

Derating Curves

2-pole

Admissible power acceptance in Watt

I = 1.0 I_n
I = 0.7 I_n
I = << I_n

Ambient air temperature Ta °C

Attenuation Loss

- - - - 50Ω differential mode _____ 50Ω common mode
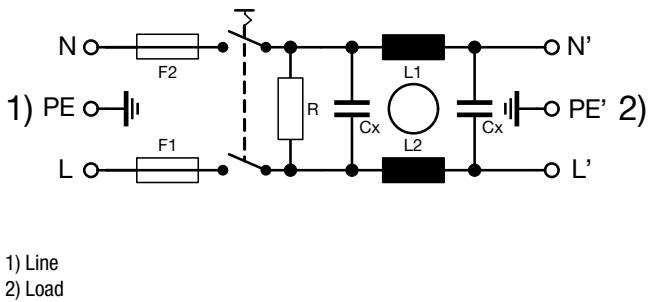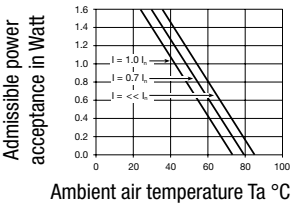
Standard version

1 A
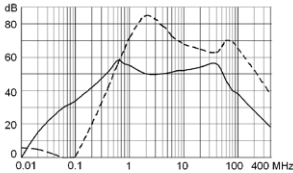
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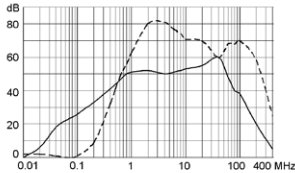
4 A
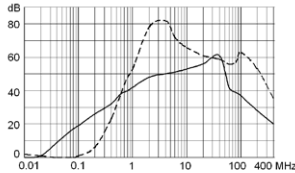
6 A
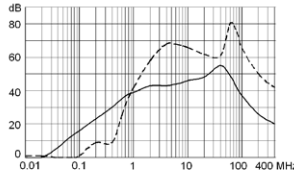
10 A

Medical version (M5)

1 A

2 A

4 A

6 A

10 A
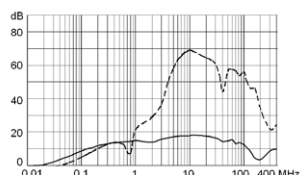
Variants

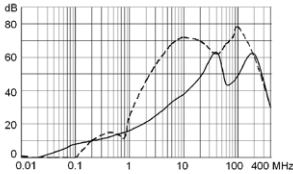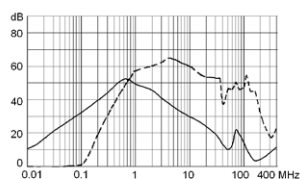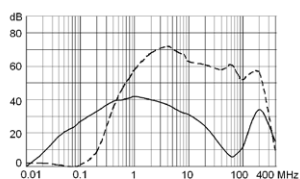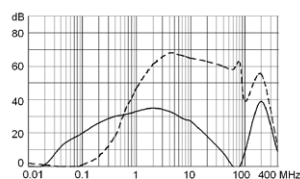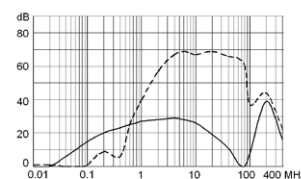| Type	Rated Current [A]	Filter-Type	Fuseholder	Line Switch	Housing	Material: Housing	Order Number
FKI	1	Standard version	2-pole	2-pole	45	Aluminum	4304.4061
FKI	2	Standard version	2-pole	2-pole	45	Aluminum	4304.4062
FKI	4	Standard version	2-pole	2-pole	45	Aluminum	4304.4063
FKI	6	Standard version	2-pole	2-pole	45	Aluminum	4304.4064
FKI	10	Standard version	2-pole	2-pole	45	Aluminum	4304.4065
FKI	1	Medical Version (M5)	2-pole	2-pole	45	Aluminum	4304.4091
FKI	2	Medical Version (M5)	2-pole	2-pole	45	Aluminum	4304.4092
FKI	4	Medical Version (M5)	2-pole	2-pole	45	Aluminum	4304.4093
FKI	6	Medical Version (M5)	2-pole	2-pole	45	Aluminum	4304.4094
FKI	10	Medical Version (M5)	2-pole	2-pole	45	Aluminum	4304.4095
FKI	1	Standard version	2-pole	2-pole	50	Nickel plated steel	4304.4021
FKI	2	Standard version	2-pole	2-pole	50	Nickel plated steel	4304.4022
FKI	4	Standard version	2-pole	2-pole	50	Nickel plated steel	4304.4023
FKI	6	Standard version	2-pole	2-pole	50	Nickel plated steel	4304.4024
FKI	10	Standard version	2-pole	2-pole	50	Nickel plated steel	4304.4025
FKI	1	Medical Version (M5)	2-pole	2-pole	50	Nickel plated steel	4304.4066
FKI	2	Medical Version (M5)	2-pole	2-pole	50	Nickel plated steel	4304.4067
FKI	4	Medical Version (M5)	2-pole	2-pole	50	Nickel plated steel	4304.4068
FKI	6	Medical Version (M5)	2-pole	2-pole	50	Nickel plated steel	4304.4069
FKI	10	Medical Version (M5)	2-pole	2-pole	50	Nickel plated steel	4304.4070

Availability for all products can be searched real-time: https://www.schurter.com/en/info-center/support-tools/stock-check-distributors

Packaging unit	10 Pcs

Accessories

Description

RC320
Rear Cover for Power Entry Module

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
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091

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
4781 Mounting: Power Cord, Cable, Connector: IEC C15	4781
4784 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C15	4784

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4304.4063 4304.4065 4304.4095 4304.407 4304.4070