

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



Description

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

Other versions on request

- Medical Version (M80)

References

Alternative: version with 1-stage filter [FKH](#)
 We recommend for new applications the type [DD14](#)

Weblinks

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

Technical Data

| | | | |
|---------------------------------|---|-----------------------------------|--|
| Ratings IEC | 1 - 10A @ Ta 40 °C / 250VAC; 50Hz | 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 |
| Ratings UL/CSA | 1 - 10A @ Ta 40 °C / 250VAC; 60Hz | Fuseholder | 1-pole, Shocksafe category PC2 acc. to IEC 60127-6, for fuse-links 5 x 20mm |
| Leakage Current | standard < 0.5mA (250V / 60Hz) | Rated Power Acceptance @ Ta 23 °C | 5 x 20: 1.6W (1 pole) |
| Dielectric Strength | > 1.7kVDC between L-N > 2.7kVDC between L/N-PE Test voltage (2 sec) | Power Acceptance @ Ta > 23°C | Admissible power acceptance at higher ambient temperature see derating curves |
| Allowable Operation Temperature | -25 °C to 85 °C | Line Switch | 2-pole, non-illuminated, acc. to IEC 61058-1 Technical Details |
| Climatic Category | 25/085/21 acc. to IEC 60068-1 | Line Filter | Standard version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| IP-Protection | front side IP40 acc. to IEC 60529 | MTBF | > 1'200'000h acc. to MIL-HB-217 F |
| 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 0.5Nm | | |
| Material | Thermoplastic, black, UL 94V-0 | | |



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: FKHD

| 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 |
|--------------|-----------------------|------------------|---|
| | 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 | Passive filters for suppressing electromagnetic interference |
| | 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 |
|--------------|--------------------------------|----------------|--|
| | Suitable for applications acc. | IEC/UL 62368-1 | Audio/video, information and communication technology equipment - Part 1: Safety requirements |
| | Suitable for applications acc. | IEC 60601-1 | Medical electrical equipment - Part 1: General requirements for basic safety and essential performance |
| | 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. |

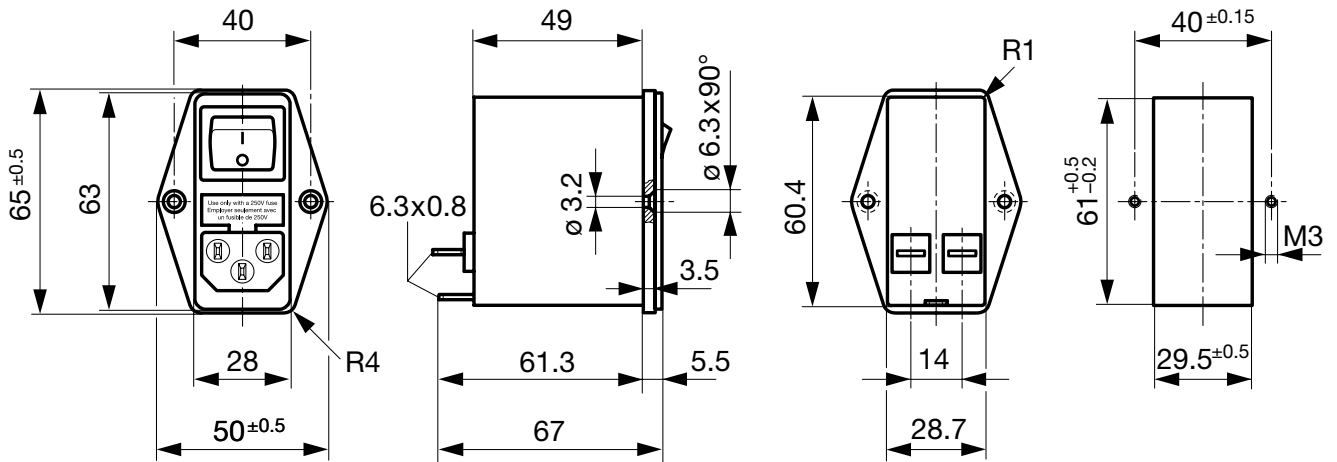
Compliances

The product complies with following Guide Lines

| Identification | Details | Initiator | Description |
|--|--------------------------------|-------------|---|
|  | CE 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 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 | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
|  | 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. |
|  | 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 M00P, 1 MOPP) |

Dimension [mm]

Case 45



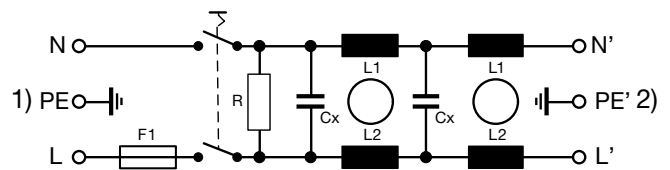
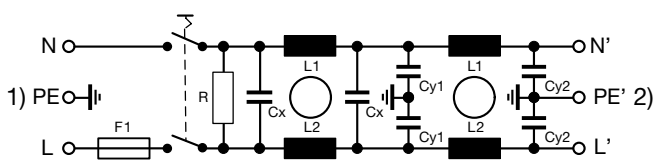
Technical Data of Filter-Components

| Rated Current [A] | Filter-Type | Inductances L [mH] | Capacitance CX [nF] | Capacity Cy1 [nF] | Capacity Cy2 [nF] | R [MΩ] |
|-------------------|----------------------|--------------------|---------------------|-------------------|-------------------|--------|
| 1 | Standard version | 2 x 10 | 68 | 1.5 | 1 | 1 |
| 2 | Standard version | 2 x 4 | 68 | 1.5 | 1 | 1 |
| 4 | Standard version | 2 x 1.5 | 68 | 1.5 | 1 | 1 |
| 6 | Standard version | 2 x 0.8 | 68 | 1.5 | 1 | 1 |
| 10 | Standard version | 2 x 0.3 | 68 | 1.5 | 1 | 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

Medical Version (M5)

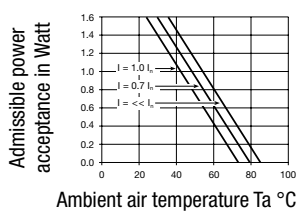


1) Line
2) Load

1) Line
2) Load

Derating Curves

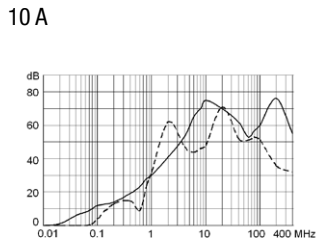
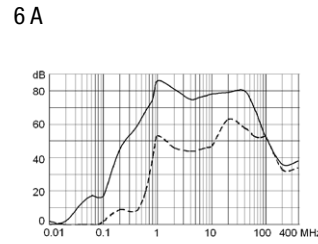
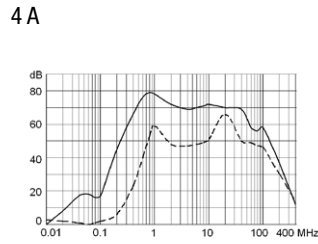
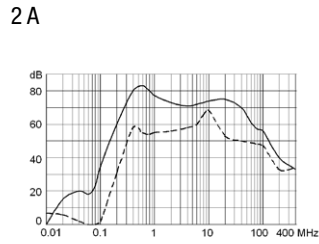
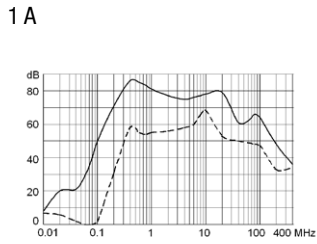
1-pole



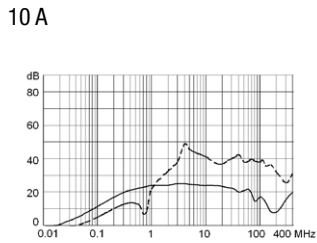
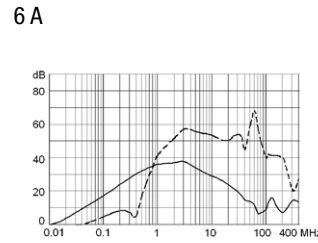
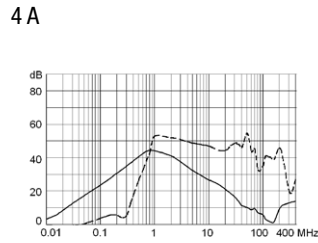
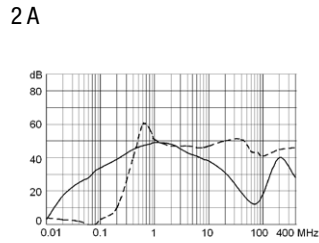
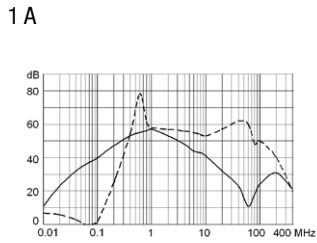
Attenuation Loss

--- 50Ω differential mode ___ 50Ω common mode

Standard version



Medical version (M5)



All Variants

| Type | Rated Current [A] | Filter-Type | Fuseholder | Line Switch | Housing | Material: Housing | Order Number |
|------|-------------------|----------------------|------------|-------------|---------|---------------------|--------------|
| FKHD | 1 | Standard version | 1-pole | 2-pole | 45 | Nickel plated steel | 4304.5001 |
| FKHD | 2 | Standard version | 1-pole | 2-pole | 45 | Nickel plated steel | 4304.5002 |
| FKHD | 4 | Standard version | 1-pole | 2-pole | 45 | Nickel plated steel | 4304.5003 |
| FKHD | 6 | Standard version | 1-pole | 2-pole | 45 | Nickel plated steel | 4304.5004 |
| FKHD | 10 | Standard version | 1-pole | 2-pole | 45 | Nickel plated steel | 4304.5005 |
| FKHD | 1 | Standard version | 1-pole | 2-pole | 45 | Aluminum | 4304.5041 |
| FKHD | 2 | Standard version | 1-pole | 2-pole | 45 | Aluminum | 4304.5042 |
| FKHD | 4 | Standard version | 1-pole | 2-pole | 45 | Aluminum | 4304.5043 |
| FKHD | 6 | Standard version | 1-pole | 2-pole | 45 | Aluminum | 4304.5044 |
| FKHD | 10 | Standard version | 1-pole | 2-pole | 45 | Aluminum | 4304.5045 |
| FKHD | 1 | Medical Version (M5) | 1-pole | 2-pole | 45 | Aluminum | 4304.5046 |
| FKHD | 2 | Medical Version (M5) | 1-pole | 2-pole | 45 | Aluminum | 4304.5047 |
| FKHD | 4 | Medical Version (M5) | 1-pole | 2-pole | 45 | Aluminum | 4304.5048 |
| FKHD | 6 | Medical Version (M5) | 1-pole | 2-pole | 45 | Aluminum | 4304.5049 |

| Type | Rated Current [A] | Filter-Type | Fuseholder | Line Switch | Housing | Material: Housing | Order Number |
|------|-------------------|----------------------|------------|-------------|---------|-------------------|--------------|
| FKHD | 10 | Medical Version (M5) | 1-pole | 2-pole | 45 | Aluminum | 4304.5050 |

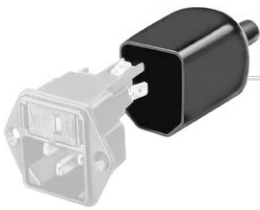
Most Popular.

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



Assorted_Covers
Rear Cover

0859.0074



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

4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder / Quick Connect, 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

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