IEC Appliance Inlet C14 with Filter, Fuseholder 1- or 2-pole, optional Voltage Selector (step switch)

Plug removal necessary for fuse replacement

Snap-in mounting from front side without voltage selector
Fuse drawer must be ordered separately (see accessories).

Screw-on mounting from rear side without voltage selector

Screw-on mounting from front side with voltage selector

C14

70° C

## Description
- Panel Mount:
  Screw-on version from front or rear side, snap-in version from front side
- 4 Functions:
  Appliance Inlet Protection class I, Fuseholder for fuse-links 5 x 20 mm 1- or 2-pole, with or without voltage selector (step switch), Line filter in standard and medical version
- Quick connect terminals or wires

## Approvals
- VDE Certificate Number: 40004665 (FKE, FKF, FKV, FKW)
- UL File Number: E72928 (FKE, FKF, FKV, FKW)

## Characteristics
- Rear side mounting for efficient costsaving assembly
  Suitable for assembly in metal plated plastic housings
- All single elements are already wired
- Plug removal necessary for fuse-link replacement
  The fuse drawer "Fingergrip" can be removed by hand
  For added safety "Extra-Safe" fuse drawers are available
  Fuse drawer meets requirements of medical standard IEC/EN 60601-1
  The fuseholder is accessible from the equipment front
- 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
- Capacity CX 100 nF
- Variant with notch for V-Lock mating Cordsets

## References
Alternative: version without line filter   KEA
Alternative: Standard version

## Weblinks
pdf-datasheet, html-datasheet, General Product Information, Approvals, CE declaration of conformity, RoHS, CHINA-RoHS, Mating Connectors, e-Shop, SCHURTER-Stock-Check, Distributor-Stock-Check, CAD-Drawings, Accessories, Wire Harnessing, 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, 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 / 125 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) | 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 |
| Allowable Operation Temp. | -25 °C to 85 °C | | |
| 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 |
| Degree of Protection | from front side IP 40 acc. to IEC 60529 | | |
| Protection Class | Suitable for appliances with protection class I acc. to IEC 61140 | | |
| | | Voltage Selector | optional, step, 3 pos. |
| Terminal | Quick connect terminals 6.3 x 0.8 mm Flexible wire AWG18, 150 mm | Line Filter | Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8 Technical Details |
| Panel Thickness s | Screw: max 8 mm Mounting screw torque max 0.5 Nm Snap-in: 0.8 mm to 3 mm | MTBF | > 1'700'000 h acc. to MIL-HB-217 F |
| Material: Housing | Thermoplastic, black, UL 94V-0 | | |

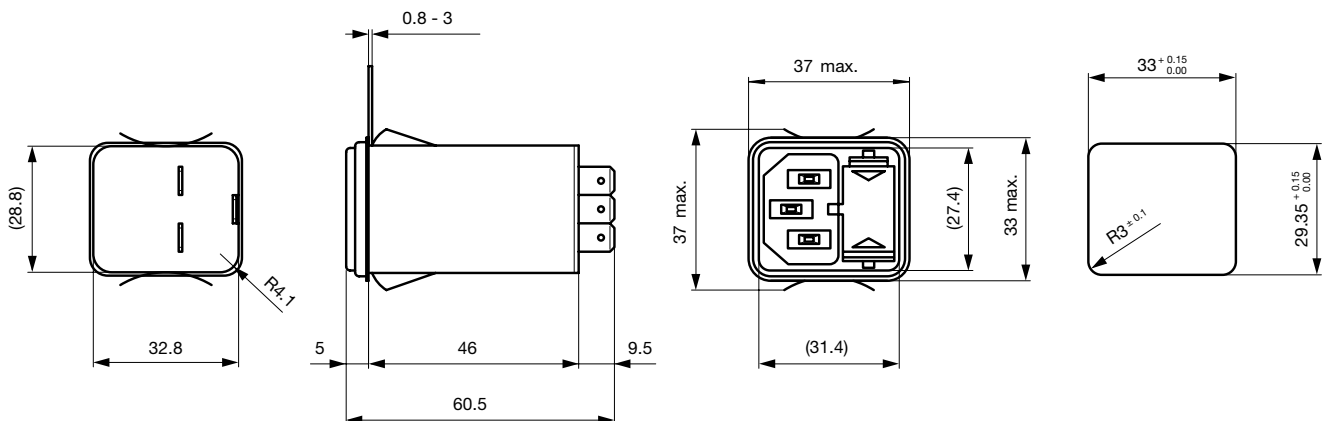## Dimension

Screw-on mounting from front side
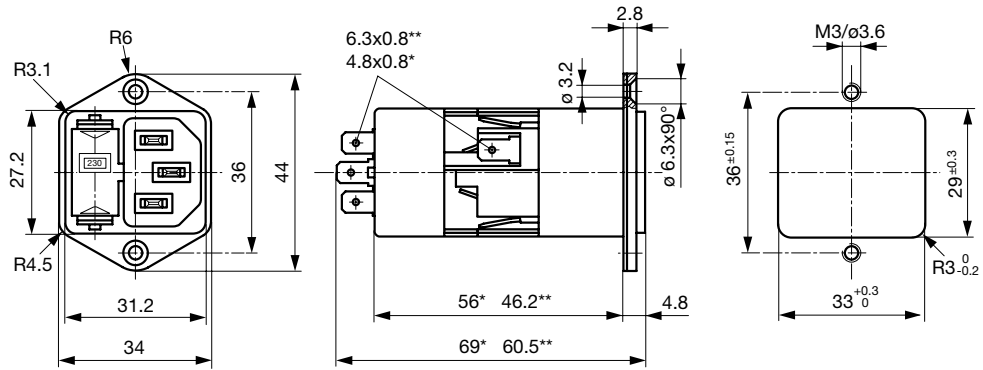


\* with voltage selector
\*\* without voltage selector

Screw-on mounting from rear side
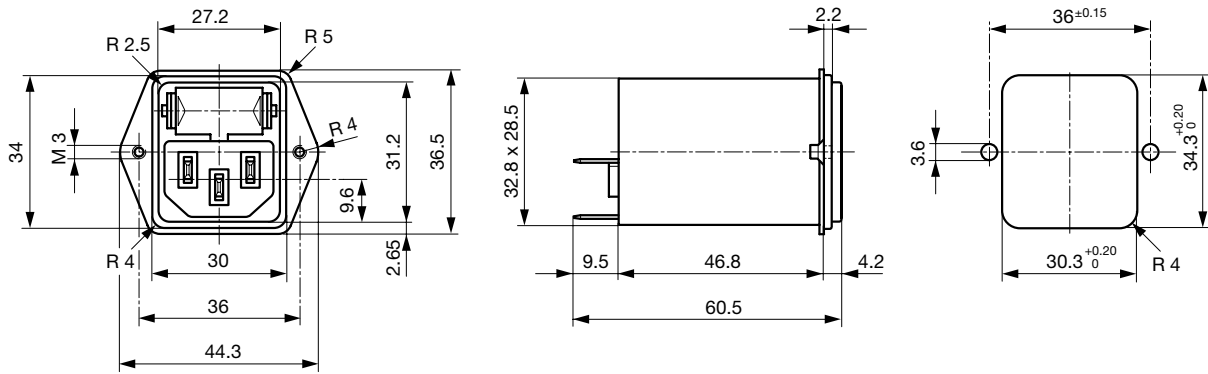


Snap-in mounting

## 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 | - |
| 2 | Standard Version | 2 x 4 | 68 | 2.2 | - |
| 4 | Standard Version | 2 x 1.5 | 68 | 2.2 | - |
| 6 | Standard Version | 2 x 0.8 | 68 | 2.2 | - |
| 10 | Standard Version | 2 x 0.3 | 68 | 2.2 | - |
| 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 |
| 1 | Medical Version (M80) | 2 x 10 | 68 | 0.47 | 1 |
| 2 | Medical Version (M80) | 2 x 4 | 68 | 0.47 | 1 |
| 4 | Medical Version (M80) | 2 x 1.5 | 68 | 0.47 | 1 |
| 6 | Medical Version (M80) | 2 x 0.8 | 68 | 0.47 | 1 |
| 10 | Medical Version (M80) | 2 x 0.3 | 68 | 0.47 | 1 |

## Diagrams

Standard version
with voltage selector

Standard version
without voltage selector
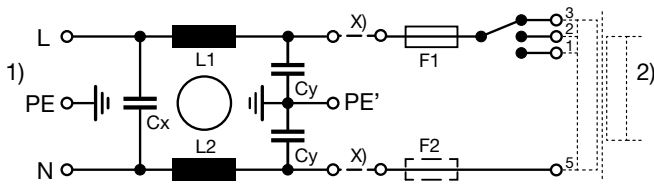


x) external connection to be made by the customer
1) Line
2) Load

1) Line
2) Load

Medical version (M5)
with voltage selector

Medical version (M5)
without voltage selector
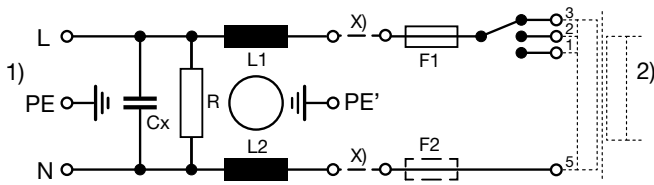


x) external connection to be made by the customer
1) Line
2) Load

1) Line
2) Load

Medical version (M80)
with voltage selector
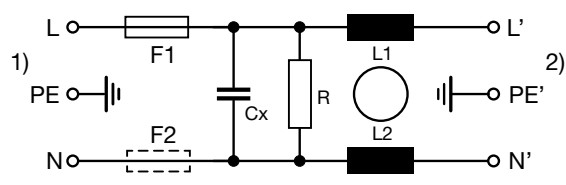
Medical version (M80)
without voltage selector



x) external connection to be made by the customer
1) Line
2) Load
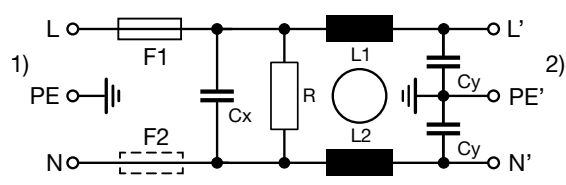
1) Line
2) Load

## Derating Curves

1-pole

2-pole

## Attenuation Loss

- - - - differential mode  _____ common mode

Standard version

1 A



2 A



4 A



6 A



10 A



Medical version (M5)

1 A



2 A



4 A



6 A



10 A



Medical version (M80)

1 A



2 A



4 A



6 A



10 A
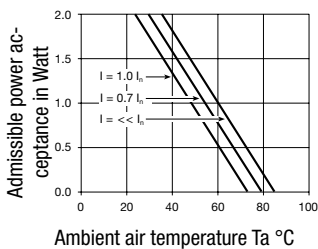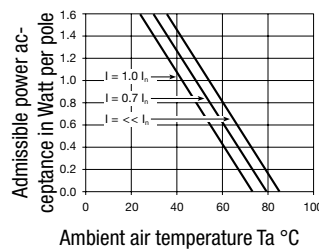
## All Variants

| Rated Current [A] | Filter-Type | Panel mounting | Mounting side | Fuseholder | Terminal | Voltage Selector | Order Number | |
|---|---|---|---|---|---|---|---|---|
| 1 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5011 | ▪ |
| 1 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5051 | |
| 1 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5001 | ▪ |
| 1 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5041 | ▪ |
| 1 | Standard Version | Screw | Rear Side | 1-pole | Flexible wire AWG18 | - | 4301.7311 | |
| 1 | Standard Version | Screw | Rear Side | 2-pole | Flexible wire AWG18 | - | 4301.7301 | |
| 1 | Standard Version | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7001 | |
| 2 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5012 | ▪ |
| 2 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5052 | |
| 2 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5002 | ▪ |
| 2 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5042 | |
| 2 | Standard Version | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7002 | |
| 4 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5013 | ▪ |
| 4 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5053 | |
| 4 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5003 | ▪ |
| 4 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5043 | |
| 4 | Standard Version | Screw | Rear Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.7013 | |
| 4 | Standard Version | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7003 | |
| 6 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5014 | ▪ |
| 6 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5054 | |
| 6 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5004 | ▪ |
| 6 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5044 | |
| 6 | Standard Version | Screw | Rear Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.7014 | |
| 6 | Standard Version | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7004 | |
| 10 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5015 | ▪ |
| 10 | Standard Version | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5055 | |
| 10 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5005 | ▪ |
| 10 | Standard Version | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5045 | |
| 10 | Standard Version | Screw | Rear Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.7015 | |
| 10 | Standard Version | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7005 | |
| 1 | Standard Version | Snap-in | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.6011 | |
| 1 | Standard Version | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6001 | ▪ |
| 2 | Standard Version | Snap-in | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.6012 | |
| 2 | Standard Version | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6002 | ▪ |
| 4 | Standard Version | Snap-in | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.6013 | |
| 4 | Standard Version | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6003 | |
| 6 | Standard Version | Snap-in | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.6014 | |
| 6 | Standard Version | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6004 | ▪ |
| 10 | Standard Version | Snap-in | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.6015 | |
| 10 | Standard Version | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6005 | ▪ |
| 1 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5241 | |
| 1 | Medical Version (M5) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7201 | |
| 2 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5203 | ▪ |
| 2 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5243 | |
| 2 | Medical Version (M5) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7203 | |
| 4 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5245 | |
| 4 | Medical Version (M5) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7205 | |
| 6 | Medical Version (M5) | Screw | Front Side | 1-pole | Quick connect terminals 6.3 x | - | 4301.5217 | |
| 6 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5247 | |
| 6 | Medical Version (M5) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7207 | |
| 10 | Medical Version (M5) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5209 | ▪ |
| 10 | Medical Version (M5) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7209 | |
| 1 | Medical Version (M5) | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6201 | |
| 2 | Medical Version (M5) | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6203 | |

| Rated Current [A] | Filter-Type | Panel mounting | Mounting side | Fuseholder | Terminal | Voltage Selector | Order Number |
|---|---|---|---|---|---|---|---|
| 4 | Medical Version (M5) | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6205 |
| 6 | Medical Version (M5) | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6207 |
| 1 | Medical Version (M80) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7202 |
| 2 | Medical Version (M80) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5204 |
| 2 | Medical Version (M80) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | 3 pos. | 4301.5244 |
| 2 | Medical Version (M80) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7204 |
| 4 | Medical Version (M80) | Screw | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.5206 |
| 4 | Medical Version (M80) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7206 |
| 6 | Medical Version (M80) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7208 |
| 10 | Medical Version (M80) | Screw | Rear Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.7200 |
| 4 | Medical Version (M80) | Snap-in | Front Side | 2-pole | Quick connect terminals 6.3 x | - | 4301.6206 |

▌ Most Popular.

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

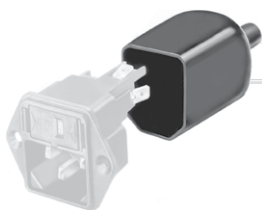Wire length: 150 mm

**Packaging unit**   10 Pcs

## Required Accessory

**Description**

Fusedrawer 2
Fusedrawer für Fuse Links 5x20 mm, with or without Voltage Selector Insert

## Accessories

Assorted Covers
Rear Cover

Wire Harness
Wire harness for SCHURTER products

Cord retaining kits
Cord retaining strain relief

## 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 KFA

Connector Overview complete

| | |
|---|---|
| IEC Connector C15A, Rewireable, Straight | 0102 |
| IEC Connector C15A, Rewireable, Straight | 0102-G |
| IEC Connector C15A, Rewireable, Angled | 0112 |
| IEC Connector C13, Rewireable, Angled | 4012 |
| IEC Connector C13, Rewireable, Straight | 4022 |

| Connector further types to KFA | ... |

**SCHURTER**
ELECTRONIC COMPONENTS

**Connectors**

17.06.2014