

IEC Appliance Inlet C14 with Shielding, "Lock and Shield" Mounting



GRF2: only with shield, without line filter



See below:
[Approvals and Compliances](#)

Description

- Panel Mount :
 Snap-in version from rear-side
- 2 Functions :
 Appliance Inlet Protection class I , with EMC-shield

Characteristics

- Time saving "Lock and Shield" snap-in design for rear-panel mounting
- All single elements are already wired
- Innovative EMC-shielding with flexible steel segments for an excellent contact to the panel
- Suitable for use in equipment according to IEC/UL 60950

Other versions on request

- With solder terminals

References

Alternative: version with line filter

Weblinks

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

Technical Data

| | | | |
|---------------------------------|---|-------------------------|--|
| Ratings IEC | 10A @ Ta 40 °C / 250 VAC; 50Hz | appliance inlet/-outlet | C14 acc. to IEC 60320-1, |
| Ratings UL/CSA | 15A @ Ta 40 °C / 250 VAC; 60Hz | | UL 60320-1, CSA C22.2 no. 60320-1 |
| Dielectric Strength | > 1.7 kVDC between L-N | | (for cold conditions) pin-temperature 70 °C, 10A, Protection Class I |
| | > 2.7 kVDC between L/N-PE Test voltage (2 sec) | MTBF | > 3'300'000h acc. to MIL-HB-217 F |
| 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 4.8 x 0.8 mm | | |
| | Plug Connector | | |
| | Solder terminal on request | | |
| Panel Thickness S | Snap-in: 1.2/1.5/2 mm | | |
| Material: Housing | Thermoplastic, black, UL 94V-0 | | |

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: GRF2

| Approval Logo | Certificates | Certification Body | Description |
|---------------|-------------------------------|--------------------|----------------------------------|
| | VDE Approvals | VDE | VDE Certificate Number: 40025743 |
| | UL Approvals | UL | UL File Number: E96454 |
| | CCC Approvals | CQC | CCC Certificate Number: |

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 61058-1 | Switches for appliances. Part 1. General requirements |
|  | Designed according to | UL 60320-1 | Standard for Attachment Plugs and Receptacles |
|  | Designed according to | UL 1283 | Electromagnetic interference filters |
|  | Designed according to | CSA C22.2 no. 60320-1 | 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. |

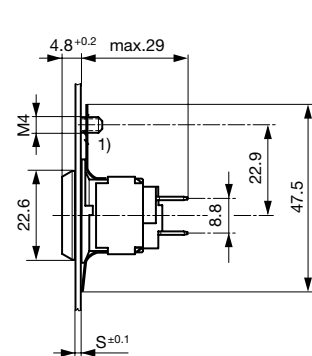
Compliances

The product complies with following Guide Lines

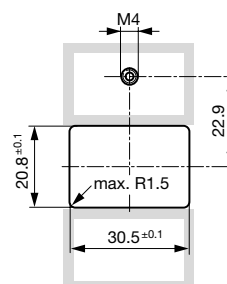
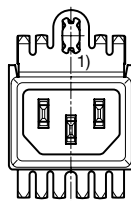
| Identification | Details | Initiator | Description |
|--|------------------------------|-------------|---|
|  | CE declaration of conformity | SCHURTER AG | The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on 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. |

Dimensions [mm]

GRF2



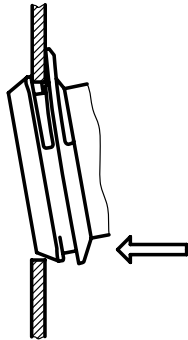
1) Terminal for earth screw M4



This area must be conductive for optimal shielding. Do not apply paint or coatings.

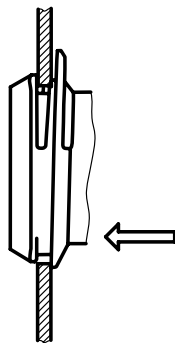
Assembly Instructions

Step 1



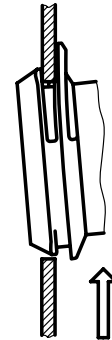
Place the socket in top edge of the panel cut-out.

Step 3



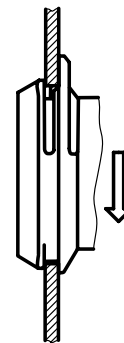
Push the socket forward into the panel cut-out.

Step 2



Push the socket upwards.

Step 4



Release the socket. The component is self adjusting.

All Variants

| Rated Current IEC [A] | Rated Current UL [A] | Filter-Type | Panel Thickness [mm] | Additional ground terminals | Weight [g] | Order Number |
|-----------------------|----------------------|-------------|----------------------|-------------------------------------|------------|------------------------------|
| 10 | 15 | - | 1.2 | - | 13.9g | GRF2.0212.11 |
| 10 | 15 | - | 1.5 | - | 13.9g | GRF2.0215.11 |
| 10 | 15 | - | 2 | - | 13.9g | GRF2.0220.11 |
| 10 | 15 | - | 1.2 | Quick connect terminal 4.8 x 0.8 mm | 14g | GRF2.0312.11 |
| 10 | 15 | - | 1.5 | Quick connect terminal 4.8 x 0.8 mm | 25g | GRF2.0315.11 |
| 10 | 15 | - | 2 | Quick connect terminal 4.8 x 0.8 mm | 14g | GRF2.0320.11 |

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

Packaging unit 100 Pcs

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 GRF2](#)


[Connector Overview complete](#)

| | |
|--|---------|
| 4782 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4782 |
| 4022 Mounting: Power Supply Cord, 3 x 1.5 mm ² , Screw clamps, Connector: IEC C13 | 4022 |
| 4785 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4785 |
| 4300-06 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13 | 4300-06 |
| 4012 Mounting: Power Supply Cord, 3 x 1.5 mm ² , Screw clamps, Connector: IEC C13 | 4012 |
| Connector further types to GRF2 | ... |