IEC Appliance Inlet C20 with Circuit Breaker TA45



Screw-on version from front or rear side Rocker non-illuminated white



Snap-in mounting from front side Rocker illuminated orange

C20



70° C

Description

- Panel mount :
- Screw-on version from front or rear side, snap-in version front side
- Appliance Inlet Protection class I , circuit breaker type TA45 2-pole
- Quick connect terminals 6.3 x 0.8 mm

Characteristics

- All single elements are already wired
- Unwired versions available on request
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 62368-1

Other versions on request

- Unwired versions
- Variant with notch for V-Lock mating Cordsets

References

Alternative: version with line filter EF12

Weblinks

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

Newly available variants corresponding to V-Lock mating cordset. The connector is equipped with a notch intended for use with the latching cordset. The cord latching system prevents against accidental removal of the cordset.

Technical Data

| Ratings IEC | 16A / 250VAC; 50Hz |
|-----------------------------|-----------------------------------------|
| Ratings UL/CSA | 20 A / 250 VAC; 60 Hz |
| Dielectric Strength | > 1.5 kVAC between L-N |
| | > 3 kVAC between L/N-PE |
| | (1 min/50 Hz) |
| Allowable Operation Tempe- | -10 °C to 55 °C |
| rature | |
| IP-Protection | front side IP40 acc. to IEC 60529 |
| Protection against electric | Suitable for appliances with protection |
| shock | 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 |
| | Snap-in: 1.5/2/2.5 mm |
| Material: Housing | Thermoplastic, black, UL 94V-0 |
| | |

| Appliance inlet/-outlet | C20 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1 (for cold conditions) pin-temperature 70 °C, 16A, Protection Class I |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circuit Breakers | Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage-or remote trip release Short circuit capacity Icn: at In < 3A/240VAC: 10 x In at In ≥ 3A/240VAC: 300A |
| | |

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: EF11

| Approval Logo | Certificates | Certification Body | Description |
|------------------------------|---------------|--------------------|------------------------------|
| I 10 | VDE Approvals | VDE | Certificate Number: 40001029 |
| c FU ° _{IIS} | UL Approvals | UL | UR File Number: E96454 |

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 | UL 60320-1 | Standard for Attachment Plugs and Receptacles |
| | Designed according to | CSA C22.2 no. 60320-1 | General Use Receptacles, Attachment Plugs, and Similar Wiring Devices |
| | | | |

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 |

Compliances

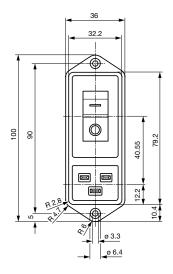
The product complies with following Guide Lines

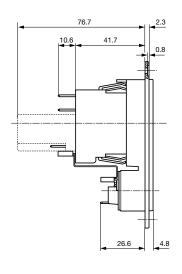
| Identification | Details | Initiator | Description |
|----------------|--------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C€ | 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. |
| UK CA | 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 |
| 60 | 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. |
| V -Lock | | SCHURTER AG | |

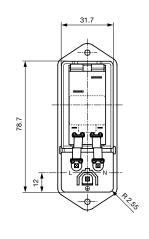


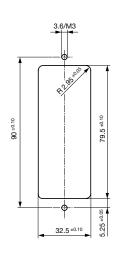
Dimensions [mm]

Screw-on mounting

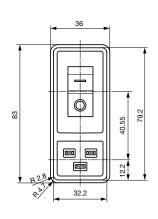


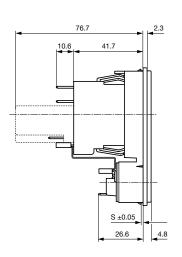


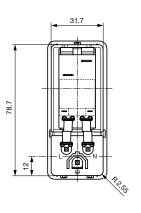




** --- Version TA45 with undervoltage relaese Snap-in mounting



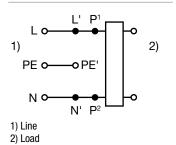






^{**---} Version TA45 with undervoltage release

Diagrams



Effect of ambient temperature

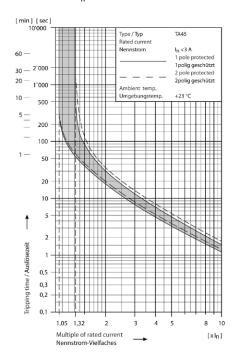
The units are calibrated for an ambient temperature of $+23^{\circ}$ C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

| Ambient Temperature [°C] | Correction factor |
|--------------------------|-------------------|
| -10 | 0.89 |
| -5 | 0.91 |
| 0 | 0.92 |
| +23 | 1.00 |
| +30 | 1.03 |
| +40 | 1.08 |
| +55 | 1.16 |

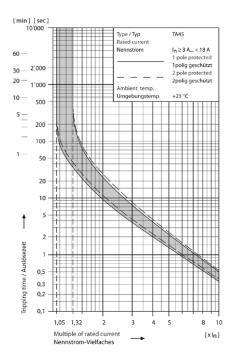
Example: With a nominal current of 5A and an ambient temperature of 40° C, a correction factor of 1.08 results. This results in a nominal current of 5.5 A, which is rounded up to the next higher nominal current 6 A.

Time-Current-Curves

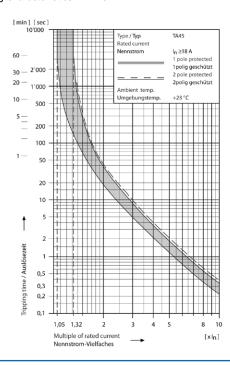
Tripping Characteristics $I_n < 3 A$



Tripping Characteristics In $\geq 3... < 18 \text{ A}$

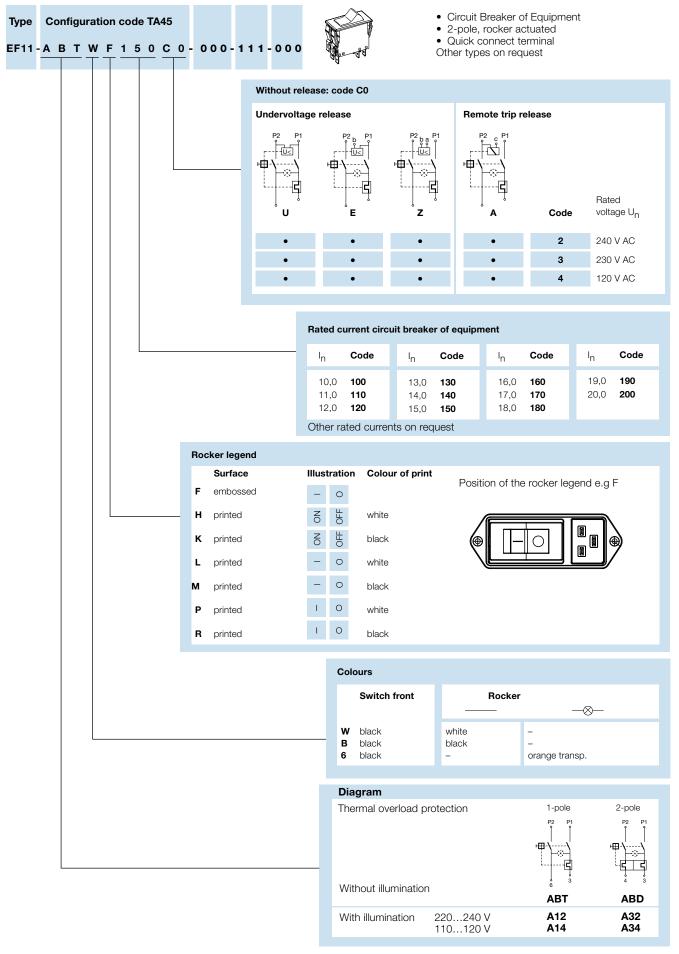


Tripping Characteristics In ≥ 18 A

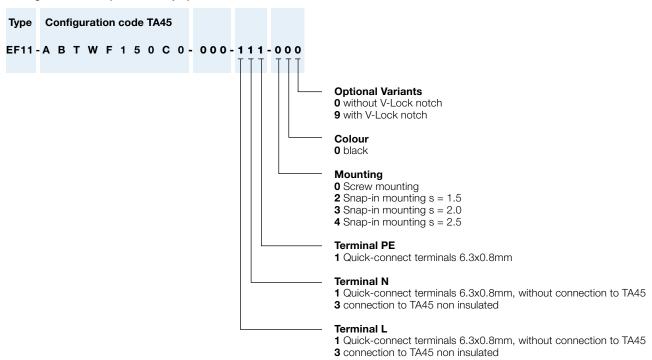


Order number key





Configuration code (Order example)



Variants

| Rated Current CBE [A] | Rocker colour | Illumination | Diagram | Mounting | V-Lock | Internally wired | Order Number |
|--------------------------|--------------------|-----------------|---------|---------------|--------|------------------|-------------------|
| 15 | orange transparent | illuminated | 2-pole | Screw | • | • | 3-125-296 |
| 20 | orange transparent | illuminated | 2-pole | Screw | | • | EF11.2561.0010.01 |
| 20 | orange transparent | illuminated | 2-pole | Snap-in 1.5mm | | • | EF11.2561.0012.01 |
| 20 | orange transparent | illuminated | 1-pole | Screw | | • | EF11.3197.0010.01 |
| 20 | black | non-illuminated | 2-pole | Screw | • | • | 3-109-889 |
| 15 | black | non-illuminated | 2-pole | Screw | | • | EF11.1089.0010.01 |
| 15 | black | non-illuminated | 2-pole | Snap-in 2.0mm | | • | EF11.1089.0013.01 |
| 15 | black | non-illuminated | 2-pole | Screw | | • | EF11.1682.0010.01 |
| 20 | black | non-illuminated | 2-pole | Screw | | • | EF11.1894.0010.01 |
| 10 | black | non-illuminated | 2-pole | Screw | | • | EF11.2078.0010.01 |
| 20 | black | non-illuminated | 2-pole | Screw | | • | EF11.2196.0010.01 |
| 20 | black | non-illuminated | 2-pole | Snap-in 2.0mm | | • | EF11.2196.0013.01 |
| 10 | white | non-illuminated | 1-pole | Screw | | • | EF11.0022.0010.01 |
| 20 | white | non-illuminated | 1-pole | Screw | | • | EF11.0035.0010.01 |
| 20 | white | non-illuminated | 1-pole | Snap-in 1.5mm | | • | EF11.0035.0012.01 |
| 10 | white | non-illuminated | 2-pole | Screw | | • | EF11.0470.0010.01 |
| 20 | white | non-illuminated | 2-pole | Snap-in 1.5mm | | • | EF11.0572.0012.01 |
| 16 | white | non-illuminated | 2-pole | Screw | | • | EF11.0699.0010.01 |
| 16 | white | non-illuminated | 2-pole | Snap-in 2.0mm | | • | EF11.0699.1013.01 |
| 15 | white | non-illuminated | 2-pole | Screw | | • | EF11.0885.0010.01 |
| 15 | white | non-illuminated | 1-pole | Screw | | • | EF11.2405.0010.01 |

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

Packaging unit

16 Pcs

Accessories

Description



Assorted_Covers Rear Cover

0859.0109



Cord_retaining_kits Cord retaining strain relief

Flat head, H 4700.0008

Mating Outlets/Connectors

Category / Description



Connector Overview complete

| 4795, Mounting: Power Cord, Cable Connector: IEC C19 | 4795 |
|---------------------------------------------------------------------|-------|
| 4790, Mounting: Power Cord, Screw Connector: IEC C19 | 4790 |
| 0104U, Mounting: Power Supply Cord, Screw clamps Connector: IEC C19 | 0104U |

Power Supply Cord Overview complete



| Cord Sets 10 A, North America, 3.0 m, Connector IEC C13, SJT 3x18 AWG, transparent | 4300.0920 |
|------------------------------------------------------------------------------------|-----------|
| Cord Sets 16 A, Europlug, 2.5 m, Connector IEC C19, H05VV-F3G1.5, black | 6004.0395 |
| Cord Sets 16 A, Interconnection, 1.0 m, Connector IEC C19, H05W-F3G1.5, black | 6020.0392 |
| Cord Sets 16 A, Interconnection, 2.0 m, Connector IEC C19, H05VV-F3G1.5, black | 6020.0394 |
| Cord Sets 16 A, North America, 2.5 m, Connector IEC C19, SJT 3x14 AWG, black | 6009.5195 |

Mating Outlets/Connectors shuttered



Power Cord Overview complete

| VAC | 19KS, Overview, V-Lock cord retaining, diverse Connector IEC C19, diverse, black | VAC19KS |
|-----|----------------------------------------------------------------------------------|---------|
|-----|----------------------------------------------------------------------------------|---------|