#### Power Entry Modules without Line Filter https://www.schurter.com /PG05

# **EF11**

#### IEC Appliance Inlet C20 with Circuit Breaker TA45





Snap-in mounting from front side

Rocker illuminated

orange

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



#### See below: Approvals and Compliances

# Description

- Panel mount :
- Screw-on version from front or rear side, snap-in version front side 2 Functions :
- 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 Ratings UL/CSA	16A / 250 VAC; 50 Hz 20A / 250 VAC; 60 Hz	Appliance inlet/-outlet	C20 acc. to IEC 60320-1, UL 60320-1, CSA C22.2 no. 60320-1		
Dielectric Strength	> 1.5 kVAC between L-N > 3 kVAC between L/N-PE		(for cold conditions) pin-temperature 70 °C, 16A, Protection Class I		
	(1 min/50 Hz)	Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA		
Allowable Operation Tempe- rature	-10 °C to 55 °C		22.2 no. 235 2-pole rocker switch, illuminated or non-		
IP-Protection	front side IP40 acc. to IEC 60529		illuminated. Optional with undervoltage-		
Protection against electric shock	Suitable for appliances with protection class I acc. to IEC 61140		or remote trip release Short circuit capacity lcn: at ln < 3A/240VAC : 10 x ln at ln ≥ 3A/240VAC : 300A		
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		al 111 2 37/240 VAC . 300A		
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

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
10	VDE Approvals	VDE	Certificate Number: 40001029
c <b>FL</b> <sup>°</sup> us	UL Approvals	UL	UR File Number: E96454

#### **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
(IL)	Designed according to	UL 60320-1	Standard for Attachment Plugs and Receptacles
CSA Group	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
IEC	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

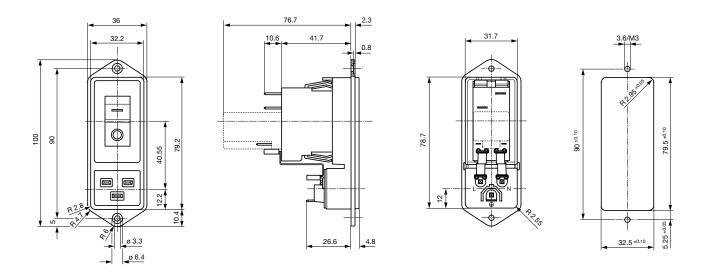
# Compliances

The product complies with following Guide Lines

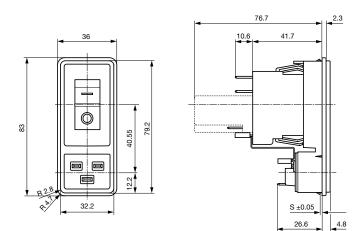
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UK CA	UKCA declaration 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.
COMPLIANT	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
<b>5</b> 0	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.
<b>√</b> -Lock		SCHURTER AG	V-Lock system are based on a matching plug-dose combination. 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.

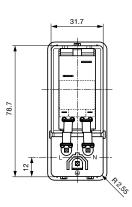
Dimensions [mm]

Screw-on mounting



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

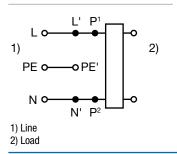






\*\*--- Version TA45 with undervoltage release

#### Diagrams



#### Effect of ambient temperature

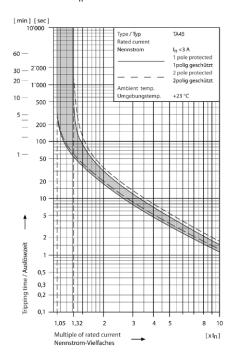
The units are calibrated for an ambient temperature of +23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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

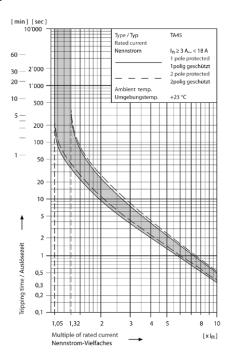
Example: With a nominal current of 5A and an ambient temperature of 40°C, a correction factor of 1.08 results. This results in a nominal current of 5.5 A, which is rounded up to the next higher nominal current 6 A.

# **Time-Current-Curves**

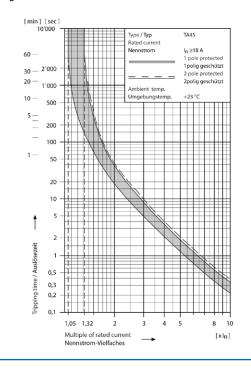
### Tripping Characteristics $I_n < 3 A$



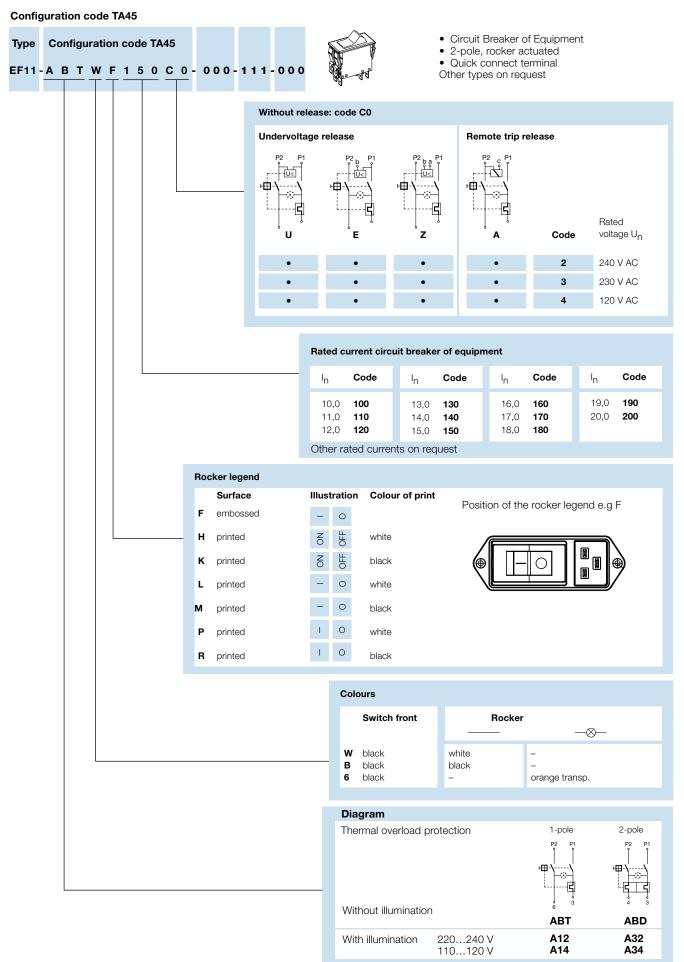
#### Tripping Characteristics In $\geq$ 3... < 18 A

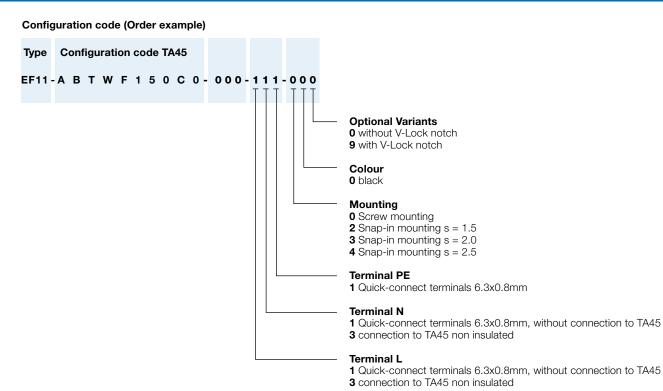


### Tripping Characteristics In $\geq$ 18 A



# Order number key





#### 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		٠	EF11.2561.0010.01
20	orange transparent	illuminated	2-pole	Snap-in 1.5mm		٠	EF11.2561.0012.01
20	orange transparent	illuminated	1-pole	Screw		٠	EF11.3197.0010.01
20	black	non-illuminated	2-pole	Screw	•	٠	3-109-889
15	black	non-illuminated	2-pole	Screw		٠	EF11.1089.0010.01
15	black	non-illuminated	2-pole	Snap-in 2.0mm		٠	EF11.1089.0013.01
15	black	non-illuminated	2-pole	Screw		٠	EF11.1682.0010.01
20	black	non-illuminated	2-pole	Screw		٠	EF11.1894.0010.01
10	black	non-illuminated	2-pole	Screw		٠	EF11.2078.0010.01
20	black	non-illuminated	2-pole	Screw		٠	EF11.2196.0010.01
20	black	non-illuminated	2-pole	Snap-in 2.0mm		٠	EF11.2196.0013.01
10	white	non-illuminated	1-pole	Screw		٠	EF11.0022.0010.01
20	white	non-illuminated	1-pole	Screw		٠	EF11.0035.0010.01
20	white	non-illuminated	1-pole	Snap-in 1.5mm		٠	EF11.0035.0012.01
10	white	non-illuminated	2-pole	Screw		٠	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		٠	EF11.0699.1013.01
15	white	non-illuminated	2-pole	Screw		٠	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, 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



4300.0920	
6004.0395	
6020.0392	
6020.0394	
6009.5195	
	6004.0395 6020.0392 6020.0394

# Mating Outlets/Connectors shuttered



#### Power Cord Overview complete

VAC19KS, Overview, V-Lock cord retaining, diverse Connector IEC C19, diverse, black

VAC19KS