IEC Appliance Inlet C20 with Circuit Breaker TA45





C20



70° C

Description

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

Approvals and Compliances

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 60950

Other versions on request

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

References

Alternative: version with line filter EF12

Weblinks

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

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 / 250 VAC; 50 Hz
Ratings UL/CSA	20A / 125/250VAC; 60Hz
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	from front side IP 40 acc. to IEC 60529
Insulation cover	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 8mm
	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 498, CSA C22.2 no. 42 (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 ln < 3A/240VAC : 10 x ln
	at In ≥ 3A/240VAC : 300A

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: EF11

Approval Logo	Certificates	Certification Body	Description
1 0	VDE Approvals	VDE	Certificate Number: 40001029
c SU °us	UL Approvals	UL	UL File Number: E96454

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC.</u>	Designed according to	IEC 60320-1	Appliance couplers for household and similar general purposes
<u>IEC</u> .	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
(UL)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
GSA Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technologyequipment.

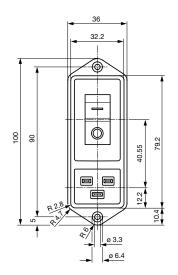
Compliances

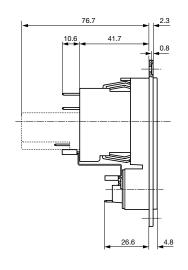
The product complies with following Guide Lines

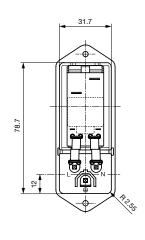
The product complice with following datas Eines			
Identification	Details	Initiator	Description
C€	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
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.
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.
V -Lock	MicrositeV-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.

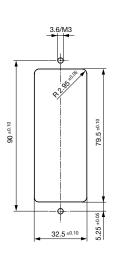
Dimensions [mm]

Screw-on mounting



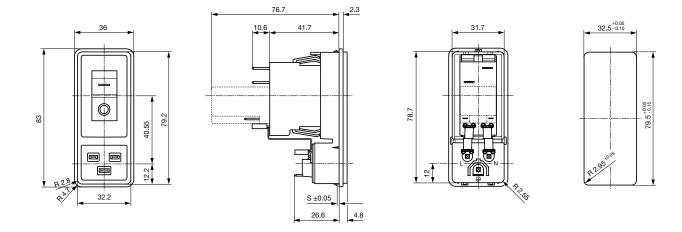






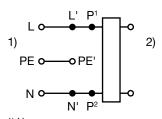
^{** ---} Version TA45 with undervoltage relaese

Snap-in mounting

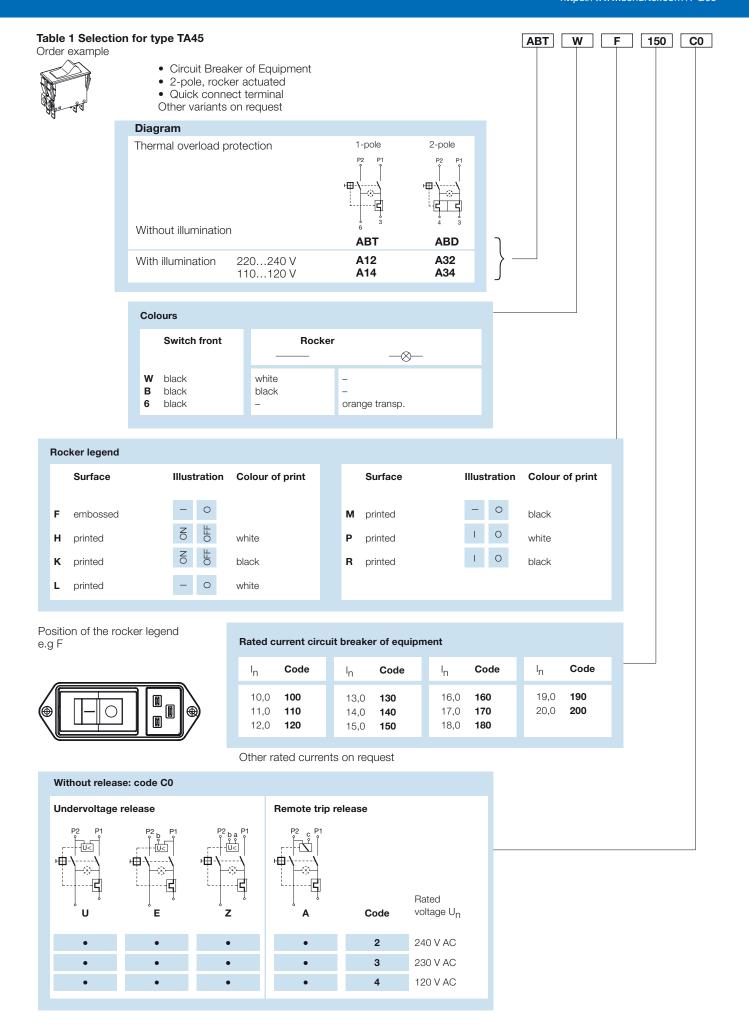


**--- Version TA45 with undervoltage release

Diagrams

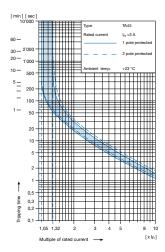


1) Line 2) Load

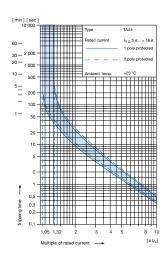


Technical data (continued) Circuit breaker

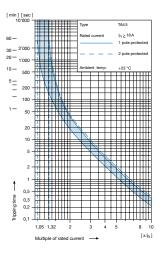
Tripping characteristics $I_n < 3 A$



Tripping characteristics $I_n \geq 3... < 18 \; A$



Tripping characteristics $I_n \geq 18 \; A$



1) Effect of ambient temperature

The unit is calibrated for an ambient temperature of +23 °C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table below:

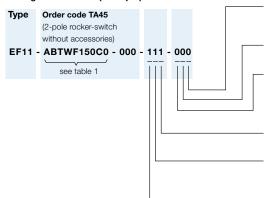
* Ambient temperature [°C] -10	Correction factor 0,89
- 5	0,91
0	0,92
+23	1,00
+30	1,03
+40	1,08
+55	1,16

* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been

1) Example

Rated current at +23 °C	6,0 A
Ambient temperature	+40 °C
Correction factor	1,08
Chosen rated current at	
+40 °C ambient temperature	6 A x 1,08 = 6,5 A

Configurtation code (example)



Optional Variants

0 standard

9 V-Lock notch

Colour

- Mounting
 0 Screw mounting
 2 Snap-in mounting s = 1.5
- 3 Snap-in mounting s = 2.0 4 Snap-in mounting s = 2.5

Terminal PE

1 Quick-connect terminals 6.3x0.8mm

Terminal N

- 1 Quick-connect terminals 6.3x0.8mm, without connection to TA45 3 connection to TA45 non insulated

Terminal L

- 1 Quick-connect terminals 6.3x0.8mm, without connection to TA45
- 3 connection to TA45 non insulated

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

IEC Connector C19, Rewireable, Straight	4795
IEC Connector C19, Rewireable, Angled	4790
IEC Connector C19, Rewireable, Straight	0104U

Connector further types to EF11

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, H05W-F3G1.5, black	6004.0395
Cord Sets 16 A, Interconnection, 1.0 m, Connector IEC C19, H05VV-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

Power Supply Cord further types to EF11

Mating Outlets/Connectors shuttered



Power Cord Overview complete

Overview Power Cord with IEC Appliance Connector C19, V-Lock, straight VAC19KS

Power Cord further types to EF11