IEC Appliance Inlet C14 with recessed Circuit Breaker TA45

V-Lock





C14

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

- VDE Certificate Number: 40011305
- UL File Number: E96454

Characteristics

- All single elements are already wired
- Switch non-illuminated or illuminated
  Thermal overload protection
  Optional with undervoltage- or remote trip release
- Suitable for use in equipment according to IEC/UL 60950

Other versions on request

- Unwired versions
- Line switch 1-pole
- Other rocker marking
- Variant with notch for V-Lock mating Cordsets

References

Alternative: version with line filter DF12
Substitute for type 6145

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, 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.

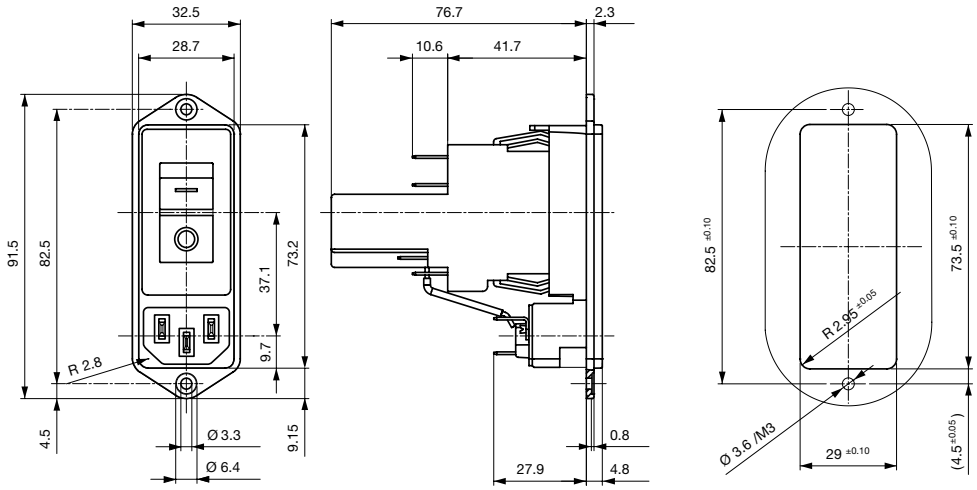
Technical Data

Ratings IEC	10 A / 250 VAC; 50 Hz
Ratings UL/CSA	1 - 15 A / 250 VAC; 60 Hz
Dielectric Strength	> 2.5 kVAC between L-N > 3 kVAC between L/N-PE (1 min/50 Hz)
Allowable Operation Temp.	-10 °C to 55 °C
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
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: 1/1.5/2/2.5/3 mm
Material: Housing	Thermoplastic, black, UL 94V-0

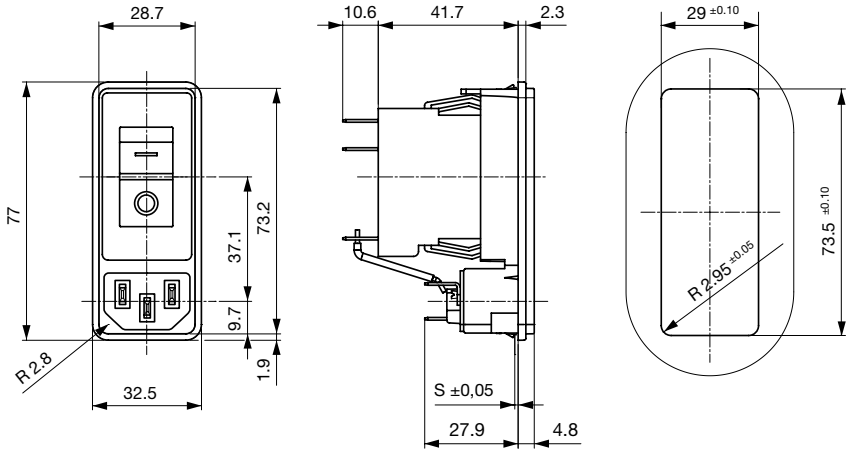
Appliance Inlet	C14 acc. to IEC 60320, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I
Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non-illuminated. Optional with undervoltage- or remote trip release Short circuit capacity Icn: at In < 3A/240VAC : 10 x In at In ≥ 3A/240VAC : 300A
Line Switch	Rocker switch 2-pole, non-illuminated or illuminated, acc. to IEC 61058-1 Technical Details

Dimensions

Screw-on Version

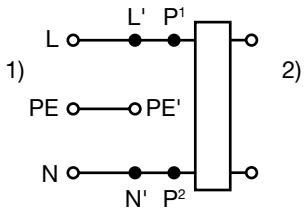


Snap-in Version



Diagrams

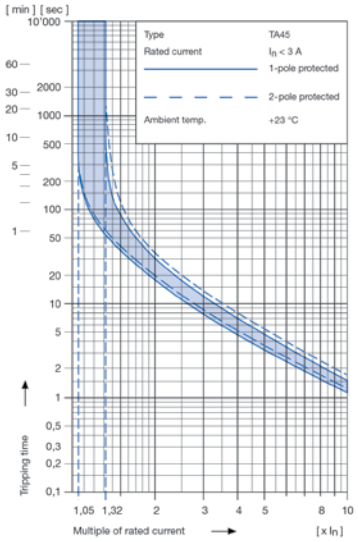
Diagram



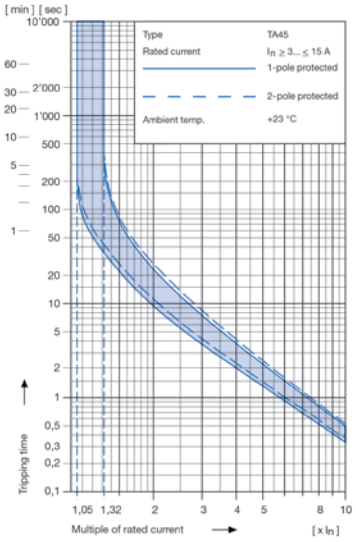
1) Line 2) Load

Technical data (continued)
Circuit breaker

Tripping characteristics
$I_n < 3$ A



Tripping characteristics
$I_n \geq 3... \leq 15$ A



Effect of ambient temperature [1)]

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]	Correction factor
–10	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 reached.

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

Order code (Order example)

Type	Order code TA 45 (2-pole rocker-switch without accessories)														
DF11.	A	B	T	W	F	1	5	0	C	0	.	0	0	1	0	.	0	1	9
	see table 1																		

Specials
9 V-Lock-Notch

Wiring
1 wired
2 unwired

Protection class
0 Protection class I

Mounting
0 Screw
1 Snap-in s = 1.0 mm
2 Snap-in s = 1.5 mm
3 Snap-in s = 2.0 mm
4 Snap-in s = 2.5 mm
5 Snap-in s = 3.0 mm

Terminals
1 Quick connect 6.3 x 0.8

00 Without line filter

Please note that Schurter will establish an internal part number for logistical use in addition to the order code. The format of this internal part number is, for example DF11.xxxxxxx

Table 1 Selection for type TA45
Order example

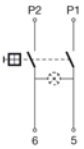
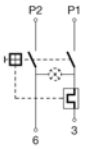
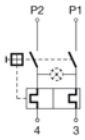
ABT | W | F | 150 | C0



- Line switch
- 2-pole, rocker actuated
- Quick connect terminal

Other types on request

Diagram

Thermal overload protection		without	with 1-pole	with 2-pole
				
Without illumination		**ABC**	**ABT**	**ABD**
With illumination	220…240 V	**A02**	**A12**	**A32**
	110…120 V	**A04**	**A14**	**A34**

Colours

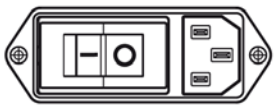
Switch front		Rocker	
W	black	white	–
B	black	black	–
6	black	–	orange transp.

Rocker legend

	Surface	Illustration		Colour of print
F	embossed / Relief	–	O	
H	printed / bedruckt	ON	OFF	white / weiss
K	printed / bedruckt	ON	OFF	black / schwarz
L	printed / bedruckt	–	O	white / weiss

	Surface	Illustration		Colour of print
M	printed	–	O	black
P	printed	I	O	white
R	printed	I	O	black

Position of the rocker legend
e.g F



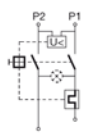
Rated current:

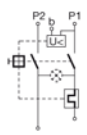
- **Without thermal overload protection: code C00** } I_n = 20 A
- **With thermal overload protection: rated current I_n (A)**

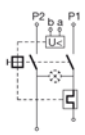
I_n	Code	I_n	Code	I_n	Code	I_n	Code
0,1	**J01**	1,3	**J13**	2,8	**J28**	10,0	**100**
0,2	**J02**	1,4	**J14**	3,0	**030**	11,0	**110**
0,3	**J03**	1,5	**J15**	3,5	**035**	12,0	**120**
0,4	**J04**	1,6	**J16**	4,0	**040**	13,0	**130**
0,5	**J05**	1,7	**J17**	4,5	**045**	14,0	**140**
0,6	**J06**	1,8	**J18**	5,0	**050**	15,0	**150**
0,7	**J07**	1,9	**J19**	6,0	**060**		
0,8	**J08**	2,0	**J20**	6,5	**065**		
0,9	**J09**	2,1	**J21**	7,0	**070**		
1,0	**J10**	2,2	**J22**	7,5	**075**		
1,1	**J11**	2,3	**J23**	8,0	**080**		
1,2	**J12**	2,5	**J25**	9,0	**090**		

Without release: code C0

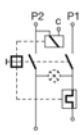
Undervoltage release







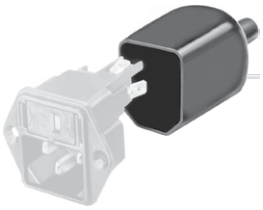
Remote trip release



U	E	Z	A	Code	Rated voltage U_n
•	•	•	•	**2**	240 V AC
•	•	•	•	**3**	230 V AC
•	•	•	•	**4**	120 V AC

Packaging unit 20 Pcs

Accessories

	Description
	Assorted Covers Rear Cover

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 DF11	
	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 DF11	...

22.03.2014

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments.