IEC Appliance Inlet C14 or C18 with recessed Circuit Breaker TA45

C14 70° C

C18 70° C

Approvals and Compliances

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

Characteristics
- All single elements are already wired
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in equipment according to IEC/UL 60950

Other versions on request
- Unwired versions
- 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, 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	10 A / 250 VAC; 50 Hz	appliance inlet/-outlet	C14 / C18 acc. to IEC 60320-1, UL 498, CSA C22.2 no. 42 (for cold conditions) pin-temperature 70 °C, 10 A, Protection Class I or II
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)	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
Allowable Operation Temperature	-10 °C to 55 °C		
IP-Protection	from front side IP 40 acc. to IEC 60529		
Insulation cover	Suitable for appliances with protection class I or II 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		

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: DF11

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40011305
	UL Approvals	UL	UL 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
IEC	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
CSA 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
IEC	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

| 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.
RoHS	RoHS	SCHURTER AG	EU Directive RoHS 2011/65/EU
50	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 Version
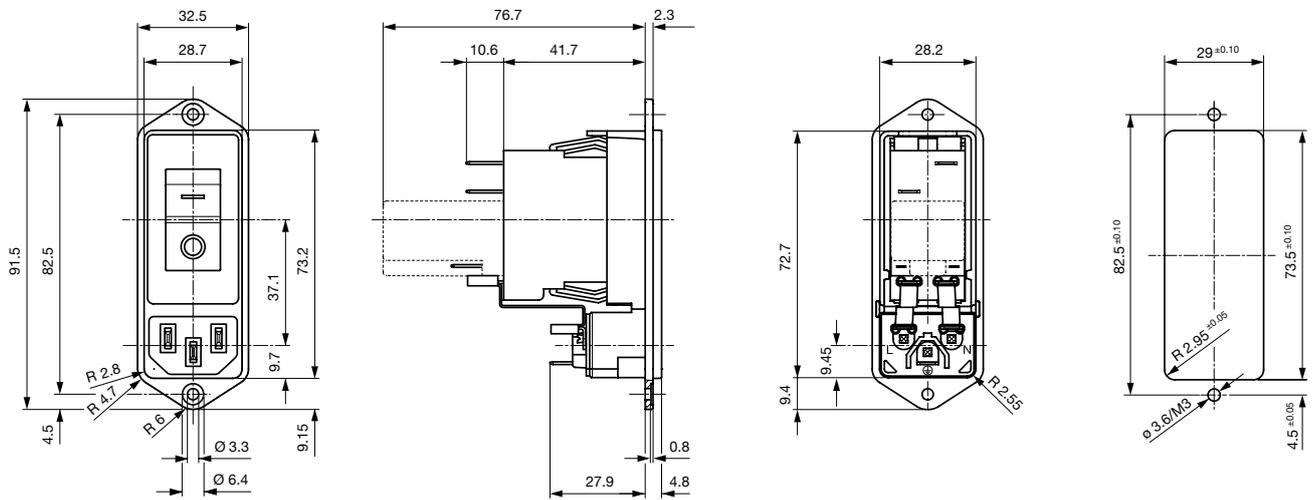
Snap-in version
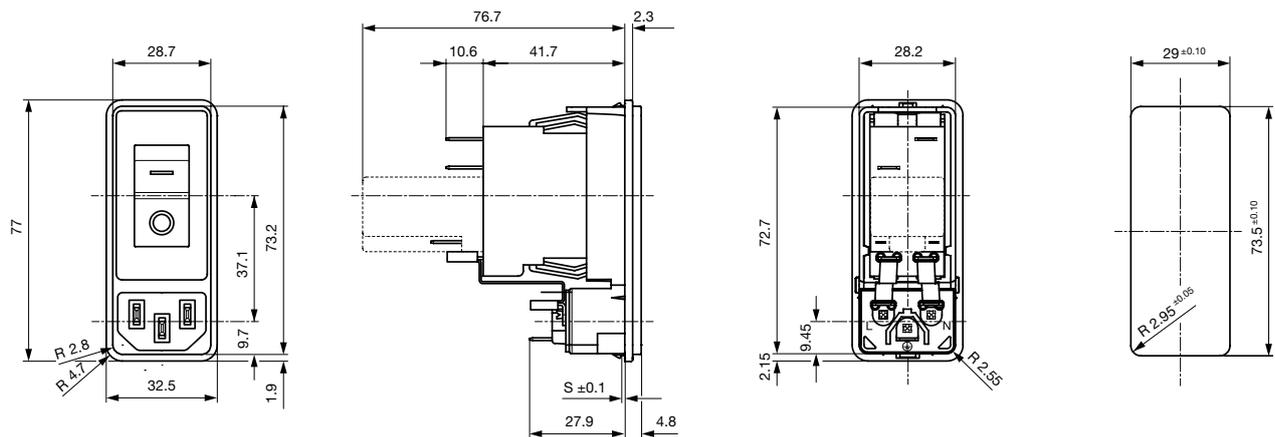
* --- Version TA45 with undervoltage release
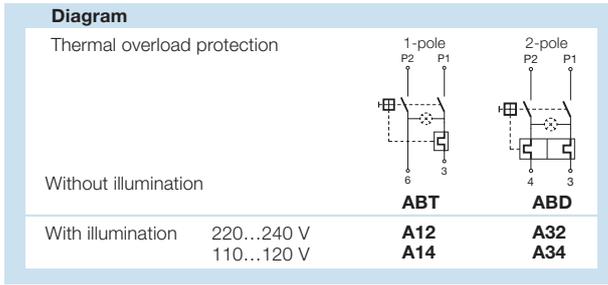
Diagrams
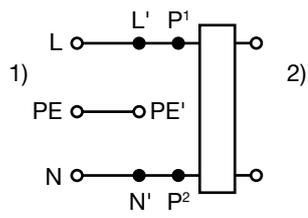
1) Line
2) Load

Table 1 Selection for type TA45
Order example

- Circuit Breaker of Equipment
- 2-pole, rocker actuated
- Quick connect terminal
- Other types on request

| ABT | W | F | 150 | C0 |

Diagram

		1-pole	2-pole
Thermal overload protection		P2 P1	P2 P1
		6 3	4 3
Without illumination		**ABT**	**ABD**
With illumination	220…240 V	**A12**	**A32**
	110…120 V	**A14**	**A34**

Colours

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

Rocker legend

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

Position of the rocker legend
e.g F
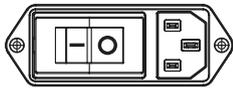
Rated current circuit breaker of equipment

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**	20,0	**200**
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

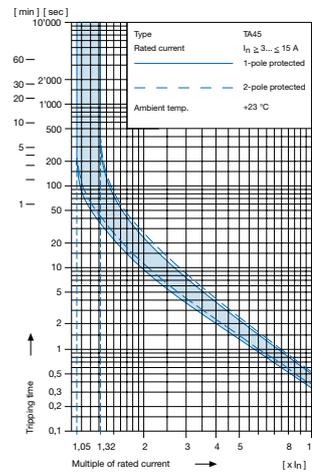| Undervoltage release			Remote trip release		
U	**E**	**Z**	**A**	**Code**	Rated voltage U_n
•	•	•	•	**2**	240 V AC
•	•	•	•	**3**	230 V AC
•	•	•	•	**4**	120 V AC
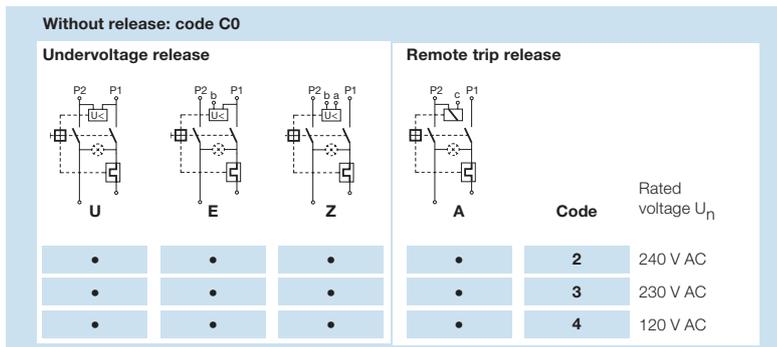
Technical data (continued)
Circuit breaker

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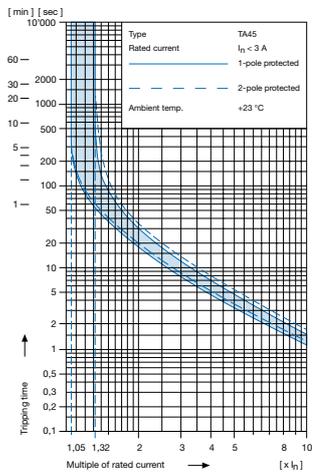
Tripping characteristics
$I_n \geq 3... \leq 15$ A

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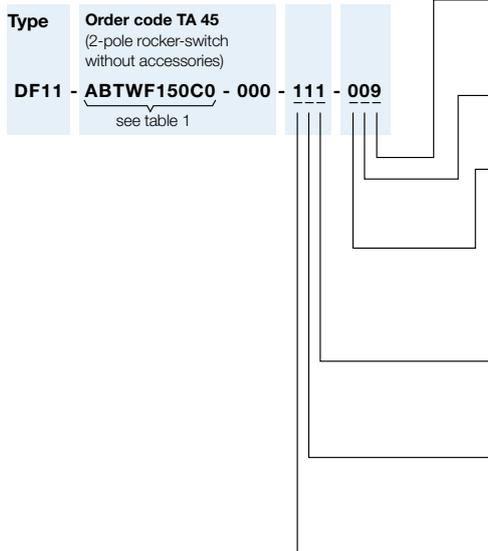
* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

[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

* 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

Configuratorcode (example)

Type	Order code TA 45 (2-pole rocker-switch without accessories)			
DF11 -	ABTWF150C0 -	000 -	111 -	009
	see table 1			

Optional Variants
0 standard
9 V-Lock

Colour
0 black

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

Terminal PE
0 without terminal (PCII)
1 Quick-connect terminal 6.3x0.8 mm

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	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

4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
4022 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4022
4785 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4785
4300-06 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4300-06
4012 Mounting: Power Supply Cord, 3 x 1.5 mm², Screw clamps, Connector: IEC C13	4012
Connector further types to DF11	...

Mating Outlets/Connectors shuttered

Power Cord Overview complete

VAC13KS, Overview, diverse Connector IEC C13, cord end:	VAC13KS
Power Cord further types to DF11	