

NEW

New compact Power Entry Module EF11

Consisting of appliance inlet and circuit breaker for equipment.

Now for high currents up to

- 16 A IEC/EN
- 20 A UL/CSA

EF11 EF11 EF11 EF11

APPLIANCE INLET WITH CIRCUIT BREAKER



Version with line filter available beginning of 2002

 **SCHURTER**

Certified Management Systems


ISO 9001/ISO 14001


European Foundation
for
Quality
Management
General Member of

Power entry module for high current Type EF11

- Panel mount:
 - screw-on version, front or rear-side
 - snap-in version, front-side
- Appliance inlet with circuit breaker type TA 45




C US

Characteristics

- Circuit breaker 2-pole, rocker actuated, non-illuminated or illuminated
- Combined with thermal overload protection
- Optional with undervoltage release or remote trip release
- All single elements wired
Unwired versions available on request
- Qualified for use in equipment according to IEC/EN 60950

Technical data

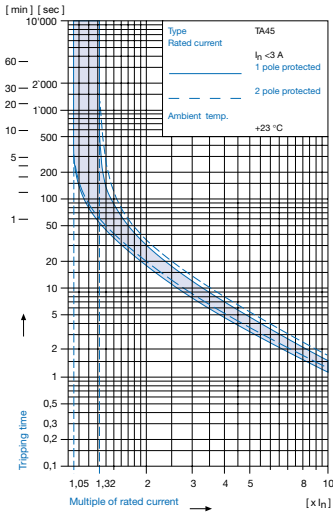
Rated voltage	125/250 VAC
Rated current I_n	10 up to 16 A; VDE 10 up to 20 A; UL, CSA, see table 1
Dielectric strength (50 Hz, 1 Min.)	> 1,5 kV between L-N > 3 kV between L/N-PE
Allowable ambient air temperatures T_a	-10 °C to +55 °C
Degree of protection (front side)	IP40 acc. to IEC 60529
Protection class	suitable for equipment with prot. cl. I, acc. to IEC 61140
Terminals	quick-connect 6,3 x 0,8 mm
Panel thickness s	screw-on: s = max. 8 mm snap-in: s = 1,5/2/2,5 mm
Materials: Housing	Thermoplastic, black, UL94 V-0

Appliance-inlet		acc. to IEC/EN 60320-1/C20, Protection class I, pin-temperature 70 °C (cold condition)
Circuit breaker type TA 45		acc. to 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 I_{cn} : at $I_n < 3 A/240 VAC$: $10 \times I_n$ at $I_n \geq 3 A/240 VAC$: 300 A

Technical data (continued) Circuit breaker

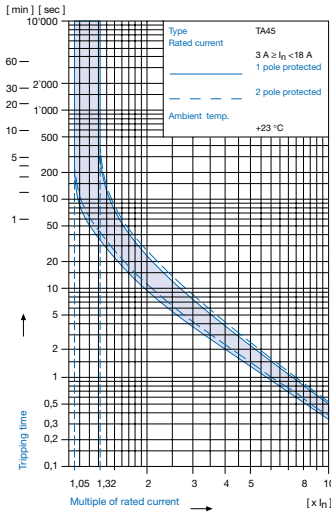
Tripping characteristics

$I_n < 3 A$



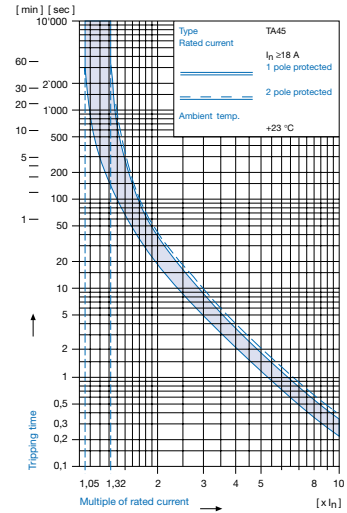
Tripping characteristics

$I_n \geq 3 \dots < 18 A$



Tripping characteristics

$I_n \geq 18 A$



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 on the right side:

* 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

Rated current at +23 °C

6,0 A

Ambient temperature

+40 °C

Correction factor

1,08

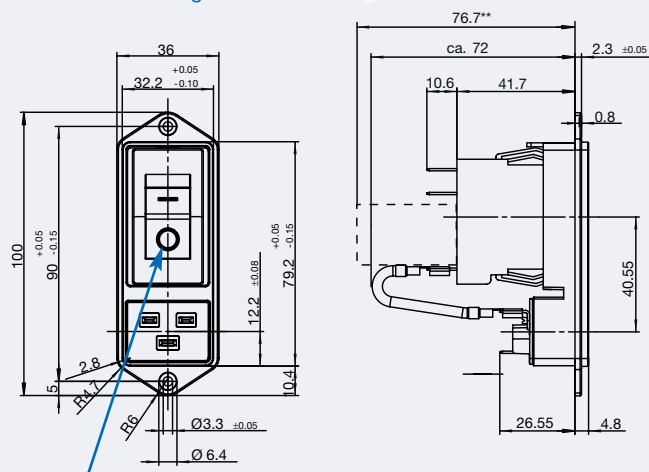
Chosen rated current at +40 °C ambient temperature

6 A x 1,08 = 6,5 A

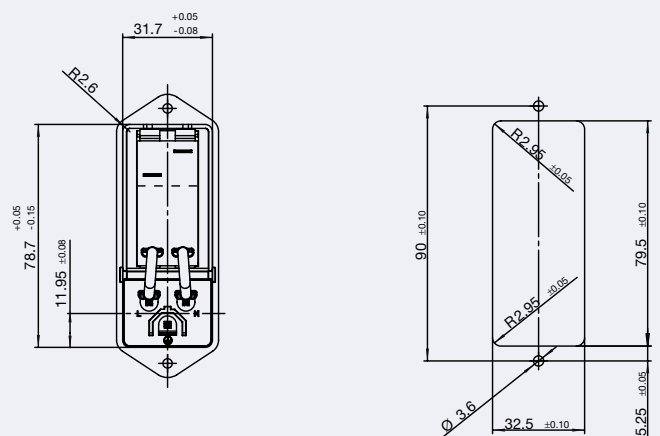
* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

Dimensions

Screw-on mounting / Schraubmontage



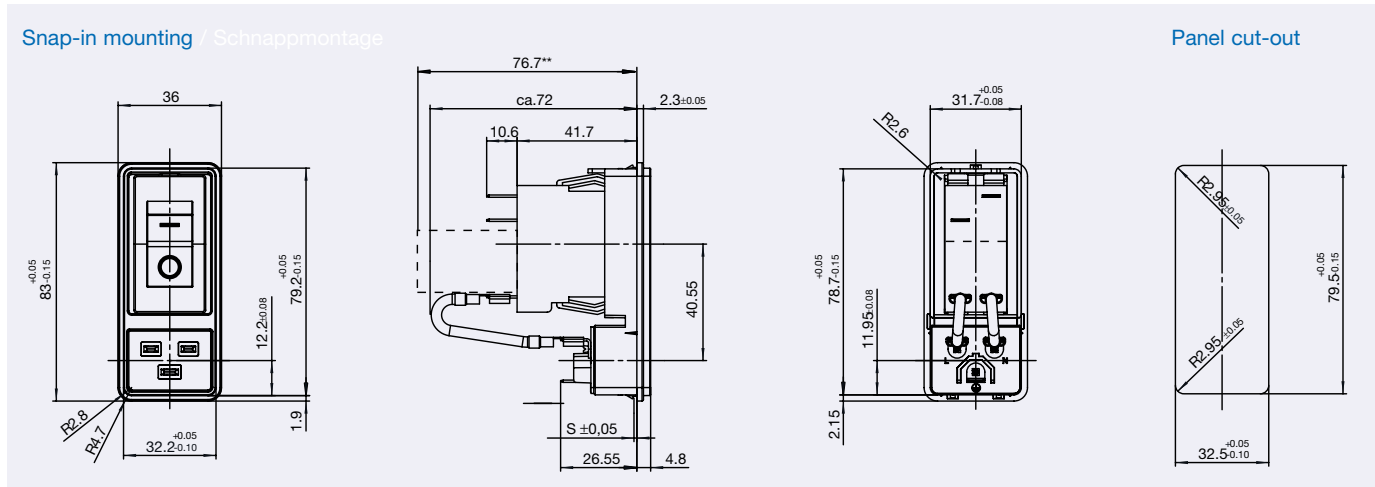
Panel cut-out /



Mounting screw torque 0,5 Nm

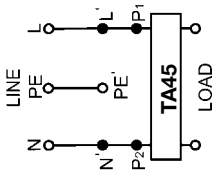
see table 1

Dimensions



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

Diagram



Order code for EF11 (order example)

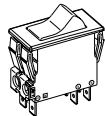
Type /	Order code TA45 (2-pole rocker-switch without accessories)			
F1.	A B T W F 1 5 0 C 0 .	00	10.	01
	see table 1			
				Wiring 1 = wired
				Protection class 0 = Class I, housing black
				Panel mount 0 = Screw-on version 2 = Snap-in version, s = 1,5 mm 3 = Snap-in version, s = 2,0 mm 4 = Snap-in version, s = 2,5 mm
				Terminals 1 = Quick connect terminals 6,3 x 0,8 mm
				00 = without line-filter

Please note that Schurter will establish an internal new part number for logistical use in addition to the order code. For example, order code F1ABTWF200C0001 will reflect the internal part number of EF11.0035.0010.01

Other versions on request

- unwired versions

Table 1
Selection for type TA45
Order example

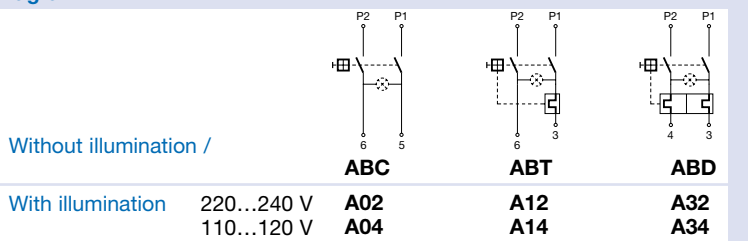


- Line-switch
- 2-pole, rocker actuated
- Quick connect terminal

Other types on request

ABT W F 150 C0

Diagram



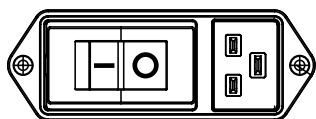
Colours / Farben

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

Rocker legend / Wippenbeschriftung

Surface	Illustration	Colour of print	Surface	Illustration	Colour of print
F embossed	- ○		M printed	- ○	black
H printed	ON OFF	white	P printed	I ○	white
K printed	ON OFF	black	R printed	I ○	black
L printed	- ○	white			

Position of the rocker legend
e.g F

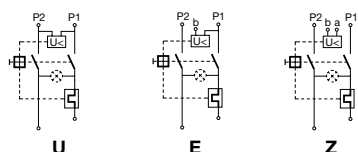


- Without thermal overload protection: code C00 } $I_n = 16\text{ A}$
- With thermal overload protection: rated current I_n (A)

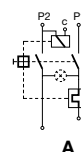
I_n	Code	I_n	Code	I_n	Code	I_n	Code
10,0	100	13,0	130	16,0	160	19,0	190
11,0	110	14,0	140	17,0	170	20,0	200
12,0	120	15,0	150	18,0	180		

Without release: code C0

Undervoltage release



Remote trip release



Rated voltage U_n

	Code	Rated voltage U_n
•	2	240 V AC
•	3	230 V AC
•	4	120 V AC