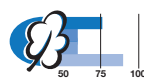


Power entry module for high current Type EF11

- Panel mount: – screw-on version, front or rear-side
– snap-in version, front-side
- Appliance inlet with circuit breaker type TA 45
- Version with line filter/shield see page 133



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

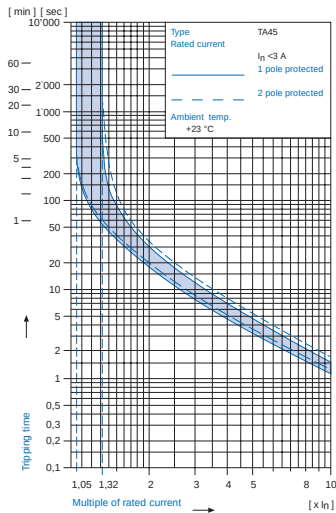
Rated voltage	125/250 VAC
Rated current I _n	10 up to 16 A; VDE 10 up to 20 A; UL, CSA, see table 1
Dielectric strength (50 Hz, 1 Min.)	> 1,5 kV between L-N > 3 kV between L/N-PE
Allowable ambient air temperatures T _a	–10 °C to +55 °C
Degree of protection (front side)	IP40 acc. to IEC 60529
Protection 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: max. 8 mm snap-in: 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 TA45	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 x I _n at I _n ≥ 3 A/240 VAC: 300 A

Accessories see page 171

Technical data (continued)
Circuit breaker

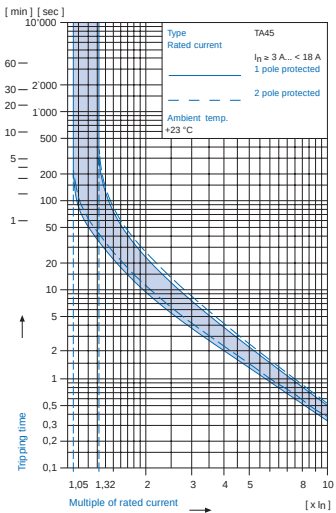
Tripping characteristics

$I_n < 3\text{ A}$



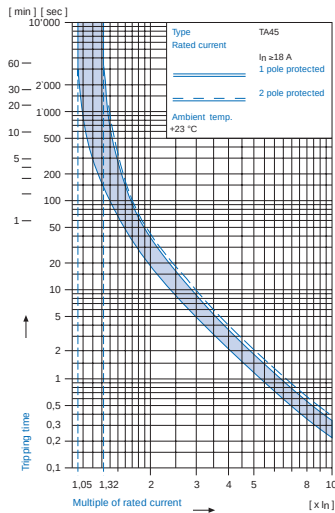
Tripping characteristics

$I_n \geq 3... < 18\text{ A}$



Tripping characteristics

$I_n \geq 18\text{ A}$



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

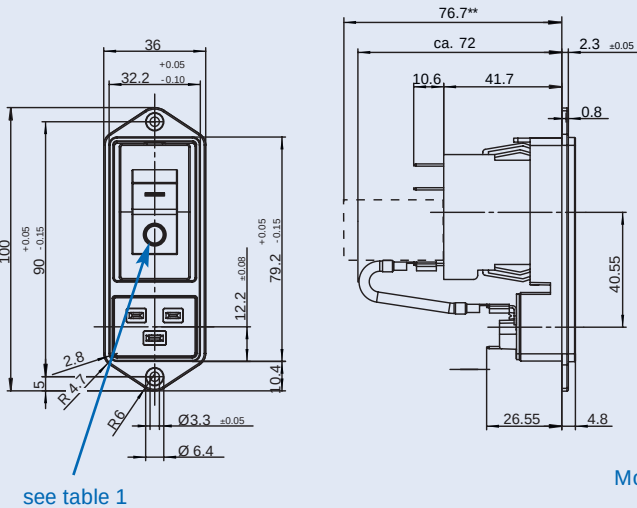
* Temperature must be measured at the rear of the breaker next to the terminals after equipment operating temperature has been reached.

Example

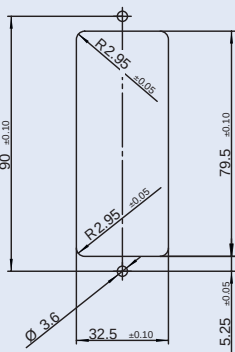
Rated current at +23 °C	6,0 A
Ambient temperature	+40 °C
Correction factor	1,08
Chosen rated current at +40 °C ambient temperature	6 A x 1,08 = 6,5 A

Dimensions

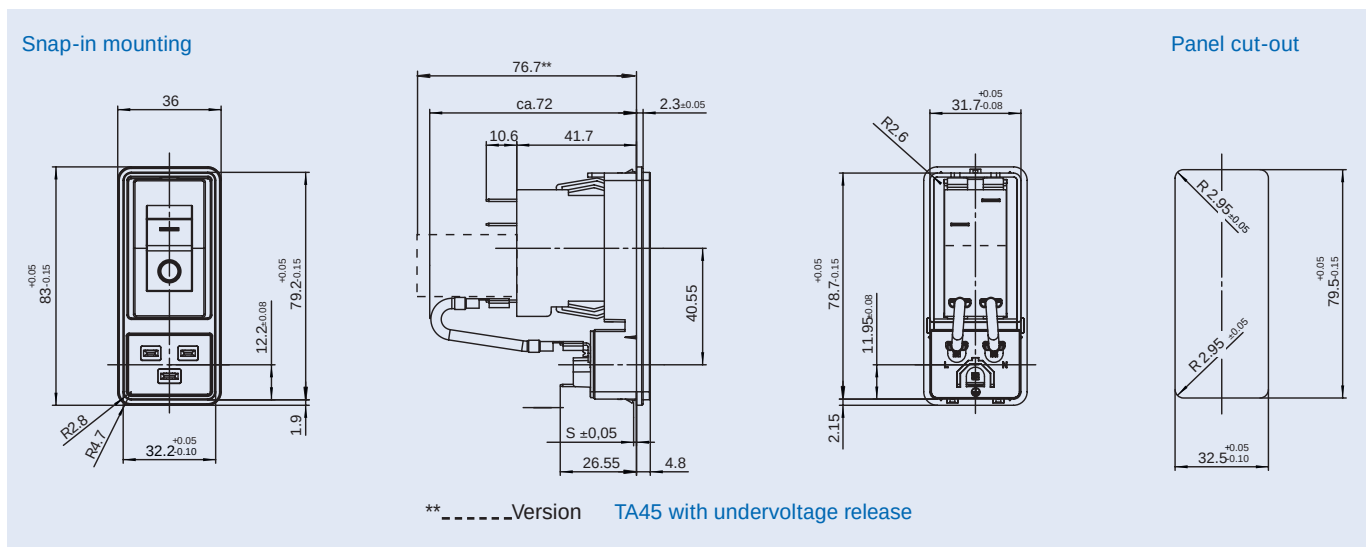
Screw-on mounting



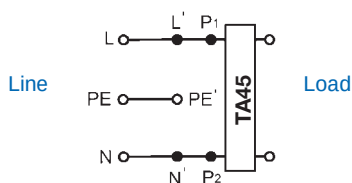
Panel cut-out



Dimensions



Diagram



Order code for EF11 (order example)

Type	Order code TA45 (2-pole rocker-switch without accessories)			
EF11.	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

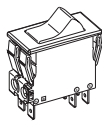
Please note that Schurter will establish an internal new part number for logistical use in addition to the order code. The format of this internal part number is, for example EF11.3103.0010.01

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

Diagram

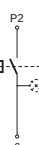
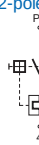
Thermal overload protection

without

with 1-pole

with 2-pole

Without illumination

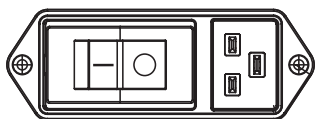
**ABC****ABT****ABD**

With illumination

 220...240 V
 110...120 V

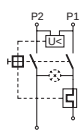
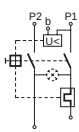
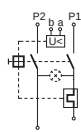
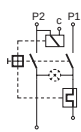
A02
A04
A12
A14
A32
A34
Colours**Switch front**
W black
B black
6 black
Rocker
 white
 black
 – orange transp.
Rocker legend

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**Rated current :**

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

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****U****E****Z****Remote trip release****A****Code**Rated voltage U_n

•	•	•	•	2	240 V AC
•	•	•	•	3	230 V AC
•	•	•	•	4	120 V AC