

Inlet filter, front side mounting, deeply placed circuit breaker TA45 2-pole

Standard- or Medical-Filter



new



C14

 70° C



Description

- Panel Mount:
Screw-on from front side
- 3 Functions:
Inlet Protection class I, circuit breaker type TA45 2-pole, Line filter in standard and medical version
- Quick connect terminals 6.3 x 0.8 mm
- Alternative: version without line filter [DF11](#)
- Substitute for type [5145](#)

Approvals

- VDE License Number: 40012935
- UL License Number: E72928

Characteristics

- All single elements are already wired
- Line switch non-illuminated or illuminated
Thermal overload protection
Optional with undervoltage release or remote trip release
- Qualified for use in equipment according IEC/EN 60950

Other versions on request

- Unwired versions
- Line switch 1-pole
- Other rocker marking
- Medical version M80
- Capacitance CX1

References

[General Product Information](#)

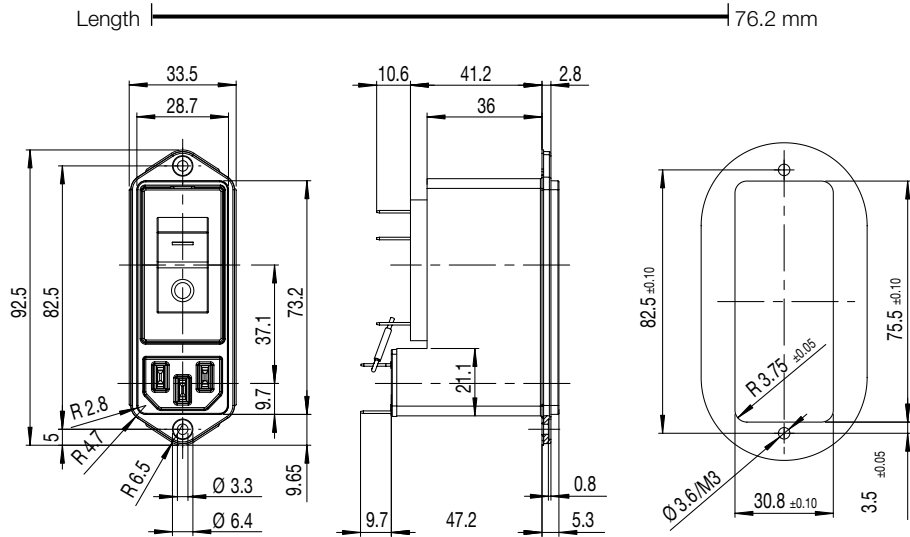
Weblinks

Approvals: www.schurter.com/approvals
 RoHS: <http://www.schurter.com/rohs>
 CHINA-RoHS: www.schurter.com/china-rohs
 Webstore: www.schurterinc.com/estore/search.ihml

Technical Data

Ratings IEC	1 - 10A @ Ta 40 °C / 250 VAC; Hz 50	Appliance-Inlet /-Outlet	C14 acc. to IEC/EN 60320-1 UL 498, CSA C22.2 no. 42 (for cold condition) pin-temperature 70 °C, 10A, Protection class I
Ratings UL/CSA	1 - 15A @ Ta 40 °C / 250 VAC; 60Hz	Circuit breaker	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
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)	Line Switch	Rocker switch 2-pole non-illuminated or illuminated acc. to IEC 61058-1 Technical details
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)	Line Filter	Standard and Medical Version, IEC 60939, IEC 60601-1, UL 1283, UL 544, EN 133 200, CSA C22.2 no. 8 Technical details
Allowable Operation Temp.	-10°C to 55°C	MTBF	> 100'000h acc. to MIL-HB-217 F
Climatic Category	10/055/21 acc. to IEC 60068-1		
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-on: max 8mm Mounting screw torque max 0.5Nm		
Material: Housing	Thermoplastic, black, UL 94V-0		

Dimensions



* Version TA45 with undervoltage release

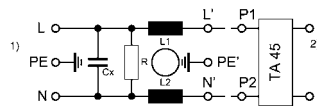
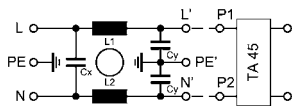
Technical Data of Filter-Components

Rated Current [A]	Filter-Type	Inductances L [mH]	Capacitance CX [nF]	Capacitance CY [nF]	R [MΩ]
1	Standard Version	2 x 11	100	2.2	1
2	Standard Version	2 x 4	100	2.2	1
3	Standard Version	2 x 2.5	100	2.2	1
4	Standard Version	2 x 1.6	100	2.2	1
6	Standard Version	2 x 0.7	100	2.2	1
8	Standard Version	2 x 0.6	100	2.2	1
10	Standard Version	2 x 0.4	100	2.2	1
15	Standard Version	2 x 0.1	100	2.2	1
1	Medical Version (M5)	2 x 11	100	-	1
2	Medical Version (M5)	2 x 4	100	-	1
3	Medical Version (M5)	2 x 2.5	100	-	1
4	Medical Version (M5)	2 x 1.6	100	-	1
6	Medical Version (M5)	2 x 0.7	100	-	1
8	Medical Version (M5)	2 x 0.6	100	-	1
10	Medical Version (M5)	2 x 0.4	100	-	1
15	Medical Version (M5)	2 x 0.1	100	-	1

Diagrams

Standard version

Medical version



1) Line
2) Load

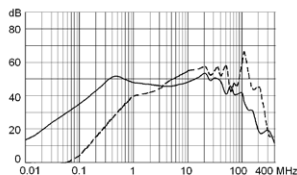
1) Line
2) Load

Attenuation Loss

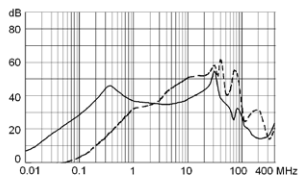
--- differential mode — common mode

Standard version

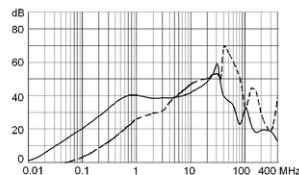
1 A



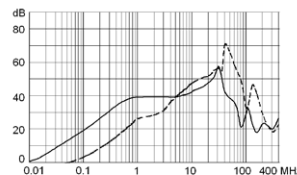
2 A



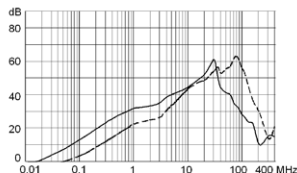
3 A



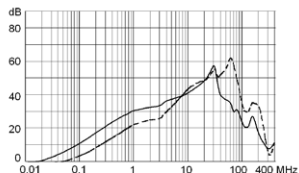
4 A



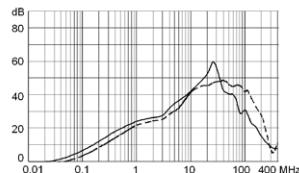
6 A



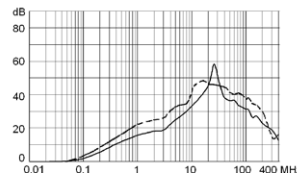
8 A



10 A

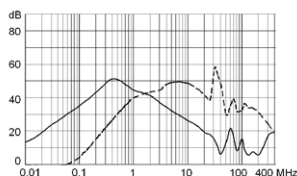


15 A

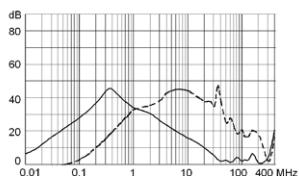


Medical version (M5)

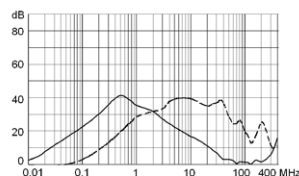
1 A



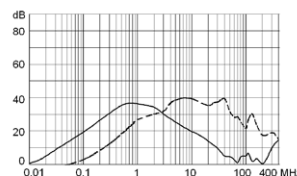
2 A



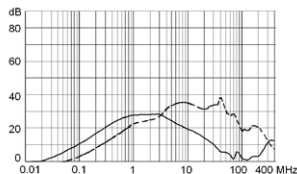
3 A



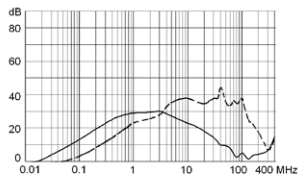
4 A



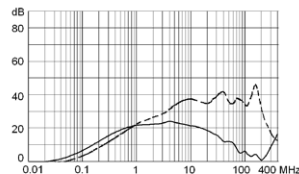
6 A



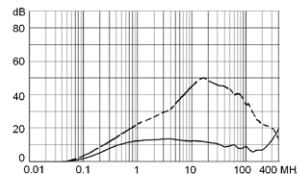
8 A



10 A



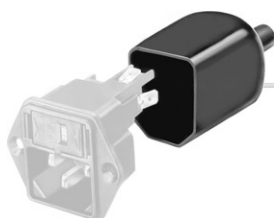
15 A



Packaging unit 10 Pcs

Accessory

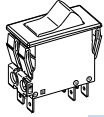
Description



Assorted Covers
Rear Cover

Table 1 Selection for type TA45

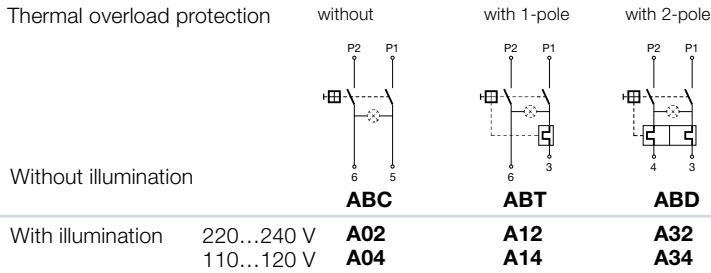
Order example



- Line switch
 - 2-pole, rocker actuated
 - Quick connect terminal
- Other types on request

ABT **W** **F** **150** **C0**

Diagram



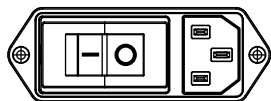
Colours

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		white / weiss	M printed		black
H printed / bedruckt		black / schwarz	P printed		white
K printed / bedruckt		white / weiss	R printed		black
L printed / bedruckt					

Position of the rocker legend
e.g F



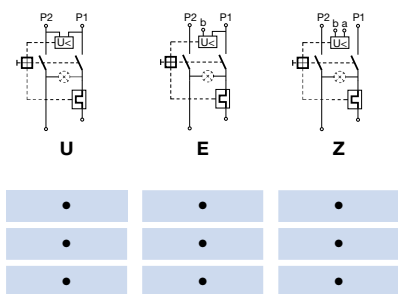
Rated current:

- Without thermal overload protection: code C00 } $I_n = 20\text{ A}$
- With thermal overload protection: rated current I_n (A)

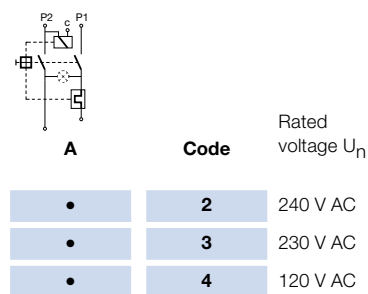
I_n	Code	I_n	Code	I_n	Code	I_n	Code
0,1	J01	1,3	J13	2,8	J28	10,0	100
0,2	J02	1,4	J14	3,0	030	11,0	110
0,3	J03	1,5	J15	3,5	035	12,0	120
0,4	J04	1,6	J16	4,0	040	13,0	130
0,5	J05	1,7	J17	4,5	045	14,0	140
0,6	J06	1,8	J18	5,0	050	15,0	150
0,7	J07	1,9	J19	6,0	060		
0,8	J08	2,0	J20	6,5	065		
0,9	J09	2,1	J21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

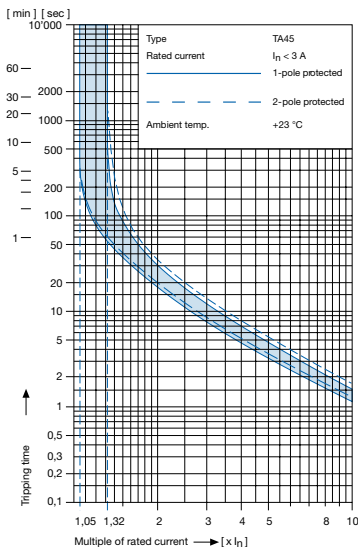


Technical data (continued)

Circuit breaker

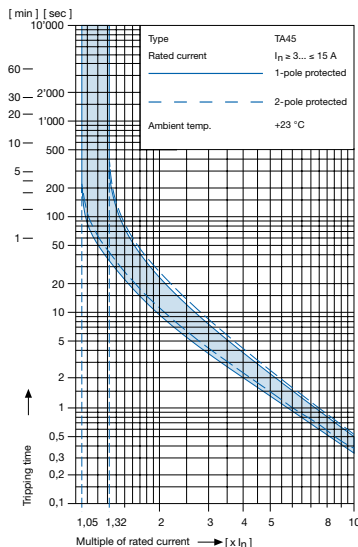
Tripping characteristics

$I_n < 3 A$



Tripping characteristics

$I_n \ge 3... \le 15 A$



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)								
DF12.	A B T W F 1 5 0 C 0	. 0 0 1 0 . 1							
	see table 1								

- Wiring**
1 wired
2 unwired
- Mounting**
0 Screw
- Terminals**
1 Quick connect 6.3 x 0.8
- Filter Version**
1 Standard
3 Medical M5
- Rated Current**
1 = 1A 5 = 6A
2 = 2A 6 = 8A
3 = 3A 7 = 10A
4 = 4A 9 = 15A

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 DF12.xxxxxx