IEC Appliance Inlet C14 with Filter, Circuit Breaker TA45 (recessed)



Screw-on from front side Rocker non-illuminated white



Description

- Panel mount :
- Screw-on mounting from front side
- 3 Functions :
- Appliance 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

Screw-on from front side Rocker illuminated orange

See below: **Approvals and Compliances**

Characteristics

- All single elements are already wired
- Circuit Breaker non-illuminated or illuminated
- Suitable for use in medical equipment according to IEC/UL 60601-1 For applications according IEC/UL 62368-1 we recommend variants with bleed resistor

Other versions on request

- Unwired versions
- Other rocker marking
- Medical Version (M80)
- Capacitance CX1
 - Variant with notch for V-Lock mating Cordsets

References

Alternative: version without line filter DF11 Substitute for type 5145 Alternative: Standard version

Weblinks

pdf data sheet, html datasheet, General Product Information, Approvals, Distributor-Stock-Check, Accessories, Detailed request for product

Technical Data

Ratings IEC Ratings UL/CSA	1 - 10A @ Ta 40 °C / 250 VAC; 50 Hz 1 - 15A @ Ta 40 °C / 250 VAC; 60 Hz	Appliance inlet/-outlet	C14 acc. to IEC 60320-1 UL 498, CSA C22.2 no. 42 (for cold		
Leakage Current	standard < 0.5 mA (250 V / 60 Hz) medical < 5 µA (250 V / 60 Hz)		conditions) pin-temperature 70 °C, 10A Protection Class I		
Dielectric Strength	> 1.7 kVDC between L-N > 2.7 kVDC between L/N-PE Test voltage (2 sec)	Circuit Breakers	Acc. IEC/EN 60934, UL 1077, CSA 22.2 no. 235 2-pole rocker switch, illuminated or non		
Allowable Operation Tempe- rature	-10°C to 55°C		illuminated. Optional with undervoltage- or remote trip release		
Climatic Category	10/055/21 acc. to IEC 60068-1		Short circuit capacity Icn:		
IP-Protection	from front side IP40 acc. to IEC 60529		at ln < 3A/240VAC : 10 x ln at ln ≥ 3A/240VAC : 300A		
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140	Line Filter	Standard and Medical Version, IEC 60939, UL 1283, CSA C22.2 no. 8		
Terminal	Quick connect terminals 6.3 x 0.8 mm		Technical Details		
Panel Thickness S	Screw: max 8mm Mounting screw torque max 0.5Nm	MTBF	> 100'000h acc. to MIL-HB-217 F		
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

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

DF12

Approvals

The approval mark is used by the testing authorities to certify compliance with the safety requirements placed on electronic products. Approval Reference Type: DF12

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40012935
c FL us	UL Approvals	UL	UL File Number: E72928

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 60939	Passive filters for suppressing electromagnetic interference
IEC	Designed according to	IEC 61058-1	Switches for appliances. Part 1. General requirements
(h)	Designed according to	UL 498	Standard for Attachment Plugs and Receptacles
(h)	Designed according to	UL 1283	Electromagnetic interference filters
GE Group	Designed according to	CSA C22.2 no. 42	General Use Receptacles, Attachment Plugs, and Similar Wiring Devices
GE Group	Designed according to	CSA C22.2 no. 8	Electromagnetic interference (EMI) filters

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
IEC.	Designed for applications acc.	IEC/UL 62368-1	IEC 62368-1 includes the basic requirements for safety of audio, video, information technology and office equipment.
<u>IEC</u>	Designed for applications acc.	IEC 60601-1	Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

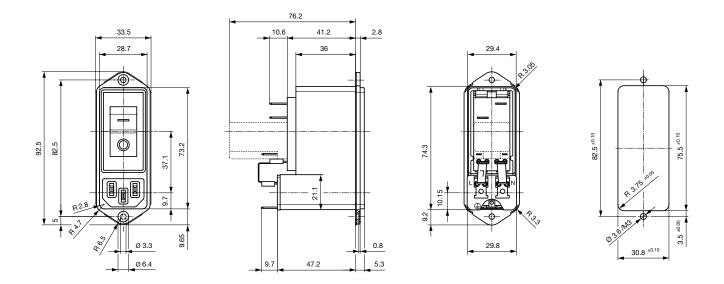
Compliances

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	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863								
5 0	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.								
√ -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.								
T	Medical Equipment	SCHURTER AG	Suitable for use in medical equipment according to IEC/UL 60601-1								

Dimension [mm]

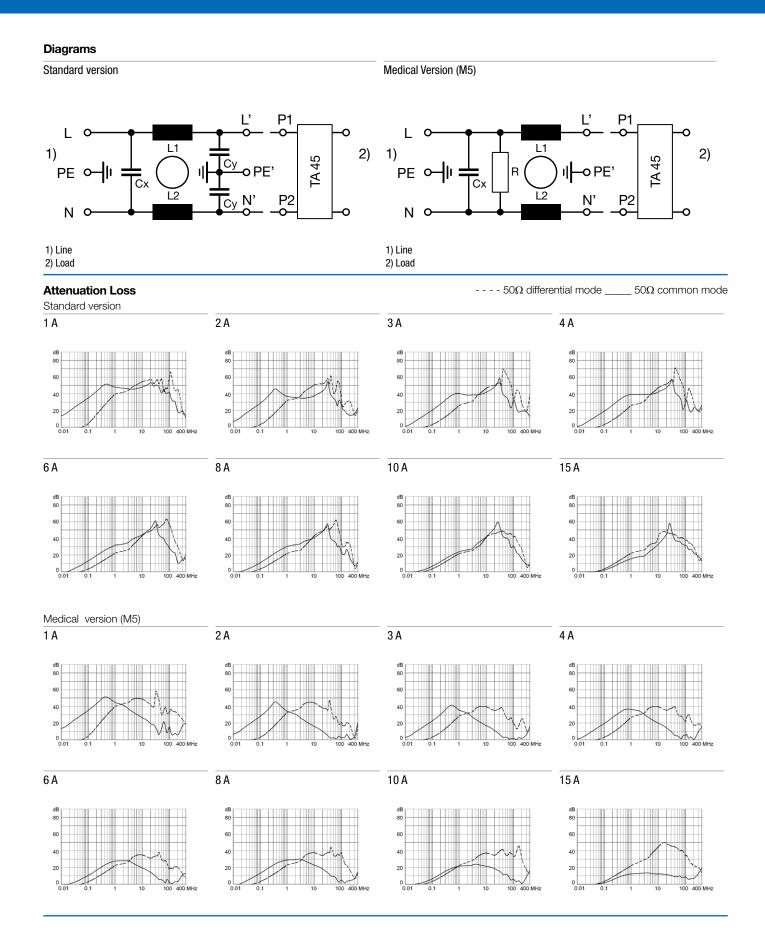
Screw-on mounting



* --- 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 [Μ Ω]
1	Standard	2 x 11	100	2.2	1
2	Standard	2 x 4	100	2.2	1
3	Standard	2 x 2.5	100	2.2	1
4	Standard	2 x 1.6	100	2.2	1
6	Standard	2 x 0.7	100	2.2	1
8	Standard	2 x 0.6	100	2.2	1
10	Standard	2 x 0.4	100	2.2	1
15	Standard	2 x 0.1	100	2.2	1
2	Medical (M5)	2 x 4	100	-	1
3	Medical (M5)	2 x 2.5	100	-	1
4	Medical (M5)	2 x 1.6	100	-	1
6	Medical (M5)	2 x 0.7	100	-	1
8	Medical (M5)	2 x 0.6	100	-	1
10	Medical (M5)	2 x 0.4	100	-	1
15	Medical (M5)	2 x 0.1	100	-	1



Effect of ambient temperature

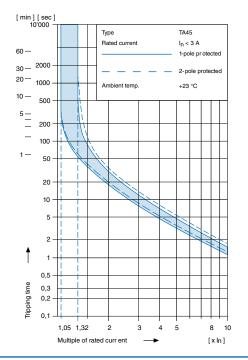
The units are calibrated for an ambient temperature of $+23^{\circ}$ C. To determine the rated current for a lower or higher ambient temperature, use a correction factor (typical value) from the table below:

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

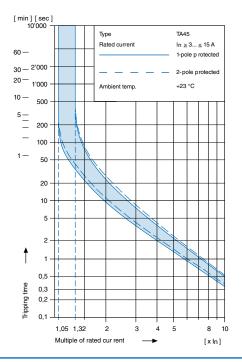
Example: Rated current = 5 A, Environmental temperature = 40 °C, --> Correction factor = 1.08, Resulting current = 5.5 A --> Fount to next higher rated current: 6 A

Time-Current-Curves

Tripping Characteristics $I_n < 3 A$



Tripping Characteristics In \geq 3 ... \leq 15 A



Configuration code TA45

 WF150C		- 1111 - 00	- 21	1	:	100 - 44 100 - 44		• 2 • C	Circuit Breaker -pole, rocker a Quick connect er types on re	actuated terminal	nt
				Without rele	ase: co	de C0					
				Undervoltag	je relea	se			Remote trip re	elease	
			_		j L	P ² p P1 -+ tuzi 	Z			Code 2 3	Rated voltage U _n 240 V AC 230 V AC
				•		•	•		•	4	120 V AC
					Rate	d current Code	circuit break		equipment	Code	I _n Code
					0,1 0,2 0,3 0,4 0,5 0,6	J01 J02 J03 J04 J05 J06	l _n 1,3 1,4 1,5 1,6 1,7 1,8	J1 J1 J1 J1 J1 J1 J1	3 2,8 4 3,0 5 3,5 6 4,0 7 4,5 8 5,0	J28 030 035 040 045 050	10,0 100 11,0 110 12,0 120 13,0 130 14,0 140 15,0 150
					0,7 0,8 0,9 1,0 1,1 1,2	J08 J09 J10 J11	1,9 2,0 2,1 2,2 2,3 2,5	J1 J2 J2 J2 J2 J2	0 6,5 1 7,0 2 7,5 3 8,0	060 065 070 075 080 090	20,0 200
	Rock	ker legend									
		Surface	I	Illustration	Cold	our of prin	t Posit	tion of	f the rocker lege	end e.g F	
	F H K L P R	embossed printed printed printed printed printed printed		1 1 0 0 1 0 0 0 0 0 0	whit blac whit blac whit blac	k e k e					
					1	Colours					
						Sw	itch front		Rocke	er	
						W blaB bla6 bla	ck		white black -	– – orange tra	nsp.
					_		al overload p t illumination	protec	tion		
						With ill	umination		20240 V 0120 V	A12 A14	A32 A34

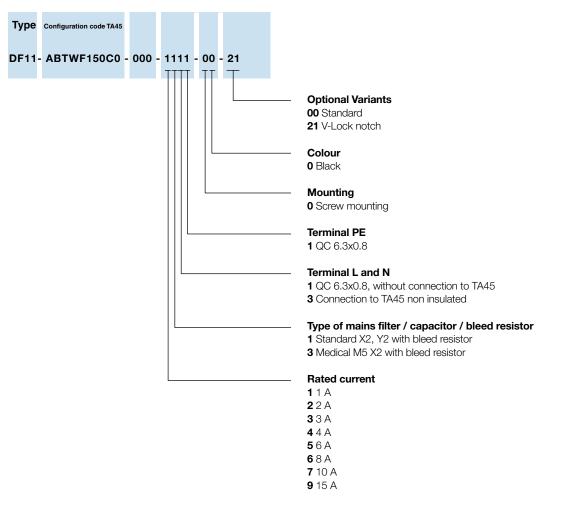
Configuration code TA45

Type Configuration code TA45 DF12-ABTWF150C0 - 000 - 1111 - 00 - 21 Office	ted inal
Without release: code C0	
Undervoltage release Remote trip release	e
	Rated Code voltage U _n
· · · ·	2 240 V AC
· · · ·	3 230 V AC
	4 120 V AC
Rated current circuit breaker of equipment In Code In In	30 11,0 110 35 12,0 120 10 13,0 130 15 14,0 140 50 15,0 150 50 20,0 200 55 30 30 30 30 30
Colours	
Switch front Rocker	
W black white - B black black - 6 black - oral	ange transp.
Diagram Thermal overload protection Without illumination	1-pole 2-pole P2 P1 P2 P1 1
With illumination 220240 V 110120 V	A12 A32 A14 A34

DF12

1)

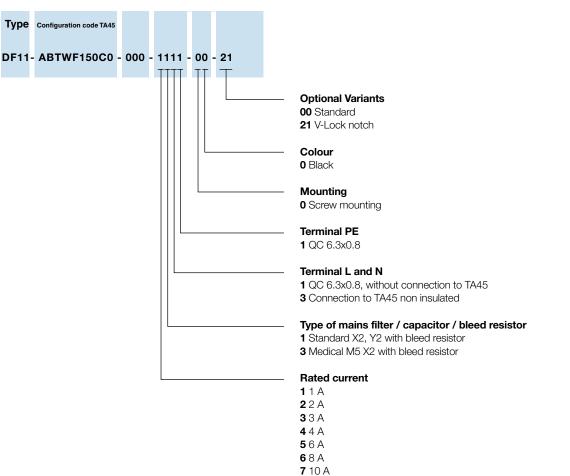
Configuration code (Order example)



The rated current of the line-filter must not be exceeded in the end application.

Configuration code (Order example)

1)



9 15 A

The rated current of the line-filter must not be exceeded in the end application.

0859.0109

Variants

Circuit Break	kers			Filter		Connectors				
Rated Cur- rent [A]	Rocker co- lour	Illumination	Add-on mo- dules	Rated Cur- rent [A]	Filter Type	Protection Class	V-Lock	Internally wired	Config. Code	Order Number
1	black	non-illumi- nated	without	1	Standard	I		prewired	DF12.ABDBLJ10C0.1110.1	DF12.1310.1110.1
10	white	non-illumi- nated	without	10	Standard	I		prewired	DF12.ABDWF100C0.7110.1	DF12.0470.7110.1
15	orange	illuminated	without	15	Standard	Į.		prewired	DF12.A326F150C0.9110.1	DF12.2851.9110.1
15	black	non-illumi- nated	without	15	Standard	I		prewired	DF12.ABDBL150C0.9110.1	DF12.1089.9110.1
15	white	non-illumi- nated	without	15	Standard	Ι		prewired	DF12.ABDWF150C0.9110.1	DF12.0885.9110.1
2	orange	illuminated	without	2	Standard	I		prewired	DF12.A326KJ20C0.2110.1	DF12.3803.2110.1
3	orange	illuminated	without	3	Standard	I		prewired	DF12.A326K030C0.3110.1	DF12.3635.3110.1
4	orange	illuminated	without	4	Standard	I		prewired	DF12.A346K040C0.4110.1	DF12.3945.4110.1
6	black	non-illumi- nated	without	6	Standard	I		prewired	DF12.ABTWF050C0.5110.1	DF12.0586.5110.1
8	white	non-illumi- nated	without	8	Standard	Ι		prewired	DF12.ABTWF080C0.6110.1	DF12.0423.6110.1
10	orange	illuminated	without	4	Medical (M5)	I		prewired	DF12 .A326H040C0.4310.1	DF12.0723.4310.1
10	black	non-illumi- nated	without	10	Medical (M5)	Ι		prewired	DF12 .ABDBL100C0.7310.1	DF12.2078.7310.1
10	white	non-illumi- nated	without	10	Medical (M5)	Ι		prewired	DF12 .ABDWF100C0.7310.1	DF12.0470.7310.1
12	black	non-illumi- nated	without	15	Medical (M5)	Ι		prewired	DF12.ABDBL120C0.9310.1	DF12.2420.9310.1
15	black	non-illumi- nated	Remote trip release	15	Medical (M5)	I		prewired	DF12 .ABDBH150A3.9310.1	DF12.4051.9310.1
15	white	non-illumi- nated	without	15	Medical (M5)	I		prewired	DF12.ABTWF150C0.9310.1	DF12.0031.9310.1
2	black	non-illumi- nated	without	2	Medical (M5)	I		prewired	DF12 .ABDWRJ20C0.2310.1	DF12.3171.2310.1
3	black	non-illumi- nated	without	3	Medical (M5)	Ι	٠	prewired	DF12.ABDBL030C0.3310.121	DF12.2370.3310.121
6	black	non-illumi- nated	without	6	Medical (M5)	I	•	prewired	DF12.ABDBP060C0.5310.121	DF12.1488.5310.12
8	orange	illuminated	without	8	Medical (M5)	I		prewired	DF12.A346R070C0.6310.1	DF12.3737.6310.1

Availability for all products can be searched real-time:https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER

Packaging unit

20 Pcs

Accessories



Description

Assorted Covers Rear Cover

RC320 Rear Cover for Power Entry Module

4781

4784

VAC13KS

Mating Outlets/Connectors

Category / Description

Appliance Outlet Overview complete

4781 Mounting: Power Cord, Cable, Connector: IEC C15

4784 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C15



4787, Mounting: Screw-on mounting, Appliance Outlet: IEC Solder terminals, 10 A, Suitable for appliances with pro- tection class I	4787
4788, Mounting: Snap-in version, Appliance Outlet: IEC Solder/Quick Connect Terminal, 10 A, Suitable for appliances with protection class I	4788
IEC Appliance Outlet F or H, Screw-on Mounting, Front Side, Solder, PCB or Quick-connect Terminal	5091
Connector Overview complete	
Connector Overview complete 4782 Mounting: Power Cord, 3 x 1 mm² / 3 x 18 AWG, Cable, Connector: IEC C13	4782
	4782 4785

Mating Outlets/Connectors shuttered



Connector Overview complete

4783 Mounting: Power Cord, 3 x 1 mm ² / 3 x 18 AWG, Cable, Connector: IEC C13	4783
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Power Cord Overview complete

VAC13KS, Overview, V-Lock cord retaining, diverse Connector IEC C13, diverse, black

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications. 13.01.2021

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DF12.0890.9310.1DF12.0885.9310.1DF12.2851.9110.1DF12.0031.9110.1DF12.0470.9310.1DF12.0470.7310.1DF12.3000.9310.1DF12.1593.7310.1DF12.3417.9110.1DF12.0991.5310.1DF12.0847.5310.1DF12.ABDBL100A8.7110.1DF12.1089.9110.1DF12.1089.9310.1DF12.1250.3310.2DF12.1250.7110.1DF12.1297.5110.1DF12.1488.5310.1DF12.1682.9110.1DF12.1938.9310.1DF12.2420.9310.1DF12.3645.9310.1DF12.2770.9110.1DF12.1356.4110.1DF12.0586.5110.1DF12.0031.9310.1DF12.0885.9110.1DF12.0470.7110.1DF12.0646.6110.1DF12.0861.7110.1DF12.3609.3310.1DF12.0979.7310.1DF12.0991.5110.1DF12.1034.9310.1DF12.1384.7310.1DF12.2837.9310.1DF12.3593.7110.1DF12.0834.5110.1DF12.1488.5310.121DF12.2838.9110.2DF12.2973.7110.1DF12.3171.2310.1DF12.3929.3110.1DF12.3877.5110.1DF12.0470.7110.1213-103-327DF12.0880.2110.121DF12.2078.7310.1