2-stage filter for 3-phase systems



See below: Approvals and Compliances Description - 3 phase line filter with standard attenuation - Voltage rating 480 VAC for world wide acceptance - Protection against interference voltage from the mains - For standard and industrial applications - Suitable for use in equipment according to IEC/UL 60950 Weblinks

pdf datasheet, html-datasheet, General Product Information, Distributor-Stock-Check, Detailed request for product, Microsite

Technical Data

Toonnour Butu	
Rated Current	8 - 64 A
Rated voltage	480 VAC, 50/60 Hz
Approval for	8 - 64 A @ 40 (75) °C / 480 VAC
Overload Current	1.5 x lr
Leakage Current	industrial < 5 mA (440V / 50 Hz)
Dielectric Strength	480 VAC:
	2.25 kVDC between L-L
	3 kVDC between L-PE
	Test voltage (2 sec)
Number of Filter Stages	2-stage
Weight	1.7 - 7.45 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis, from				
	top				
Terminal	Screw clamps				
Operating Temperature	-25 °C to 100 °C				
Climatic Category	25/100/21 acc. to IEC 60068-1				
Degree of Protection	IP 20 acc. to IEC 60529				
Protection Class	Suitable for appliances with protection				
	class I acc. to IEC 61140				
MTBF	> 200'000h acc. to MIL-HB-217 F				

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: FMBC

Approval Logo	Certificates	Certification Body	Description
10	VDE Approvals	VDE	Certificate Number: 40004666
c FL [®] us	UL Approvals	UL	UL File Number: E72928
Due de la dese des			
Product standards	rds that are referenced		
		Standard	Description
Product standards	that are referenced	Standard IEC 60939	Description Passive filters for suppressing electromagnetic interference

FMBC

The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March

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.

2007. It is similar to the EU directive RoHS.

Application standards

Application standards where the product can be used

China RoHS

REACH

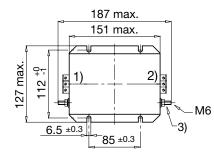
, ipplication stande							
Organization	Design	Standard	Description				
I <u>EC</u>	Designed for applications acc.	IEC/UL 60950	IEC 60950-1 includes the basic requirements for the safety of information technology equipment.				
Compliances							
The product comp	blies with following Guide Lines						
Identification	Details	Initiator	Description				
C€	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				

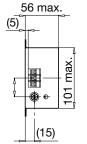
0 REACH

Dimension [mm]

Case 27-3

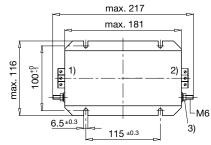
Case 31-3

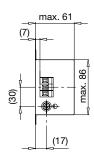




SCHURTER AG

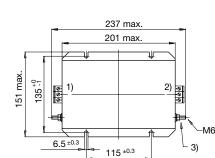
SCHURTER AG





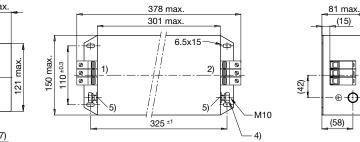
 \odot

1) Line 2) Load 3) Nut torque 3...4 Nm Case 32-7



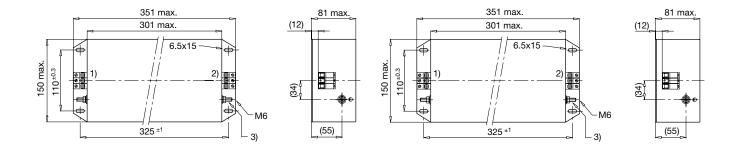
66 max (2) max. 121 (41) (17)





Case 38-3

Case 40-3



1) Line 2) Load

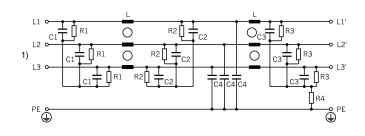
3) Tightening torque 3...4 Nm4) Tightening torque 10...17 Nm

5) Do not unscrew lock-nut

Technical data to the filter components

Bemessungsstrom @ Tu	Characteristic	L [mH]	C1 LEI	C2 [µF]	C3 [nF]	C4 InEl	R1 [M Ω]	R2 [M Ω]	R3 [M Ω]	R4 [M Ω]
40°C (75°C) [A]	Characteristic	ւլտոյ	C1 [µF]	ΟΖ [μ Γ]	C3 [nF]	C4 [nF]		HZ [IVI 12]	K3 [IVI\2]	H4 [IVI 32
8 (5.6)	Excellent attenuation	8	1.0	1.0	2.2	47	-	-	1	1
12 (6.6)	Excellent attenuation	5.5	1.0	1.0	2.2	47	-	-	1	1
16 (8.8)	Excellent attenuation	4.5	1.0	1.0	2.2	47	-	-	1	1
25 (13)	High attenuation	2.4	1.0	2.2	2.2	47	-	-	1	1
25 (16)	Excellent attenuation	4.5	1.0	2.2	2.2	47	-	-	1	1
36 (19)	High attenuation	1.5	1.0	2.2	4.4	47	-	1	1	1
36 (19.5)	Excellent attenuation	3	1.0	2.2	4.4	47	1	1	1	1
50 (27)	High attenuation	1	2.2	2.2	4.4	100	-	1	1	1
64 (36)	Excellent attenuation	0.85	2.2	2.2	4.4	100	-	1	1	1

Diagrams

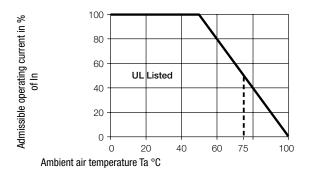


1) Line

FMBC

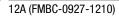
Derating Curves

Permissible Working Current as a Function of Ambient Temperature



Attenuation Loss

Industrial version 8A (FMBC-0927-0810)



dB 80

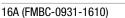
60

40

80

60

40



80

60

40

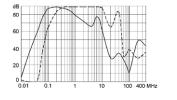
25A (FMBC-0932-2510)

 50Ω common mode

- - - - 50 Ω differential mode ____

dB 80

60

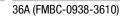


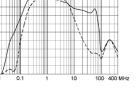
25A (FMBC-0932-2510L)

80

60

40

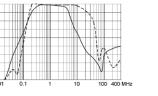




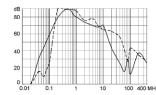
50A (FMBC-0938-5010L)

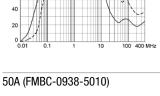
0.01 0.1 1 10

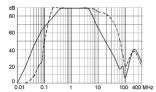
64A (FMBC-0937-6410)



36A (FMBC-0940-3610L)







All Variants

Bemessungs- strom @ Tu 40°C (75°C) [A]	Characteristic	Tripped Power Dissipation [W]	Contact Resistance [m Ω]	Leakage Cur- rent [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housings	Order Number
8 (5.6)	Excellent attenuation	10.6	55	0.5	1.7 kg	4	27-3	FMBC-0927-0810
12 (6.6)	Excellent attenuation	10	23	0.5	1.9 kg	4	27-3	FMBC-0927-1210
16 (8.8)	Excellent attenuation	14.6	19	0.5	2.28 kg	4	31-3	FMBC-0931-1610
25 (13)	High attenuation	20.7	11	0.5	3.5 kg	6	32-7	FMBC-0932-2510L
25 (16)	Excellent attenuation	18.8	10	0.5	3.4 kg	6	32-7	FMBC-0932-2510
36 (19)	High attenuation	18.3	4.7	0.5	6.5 kg	6	40-3	FMBC-0940-3610L
36 (19.5)	Excellent attenuation	29.2	7.5	0.5	7.4 kg	6	38-3	FMBC-0938-3610
50 (27)	High attenuation	25.9	3.45	1.2	7 kg	10	38-3	FMBC-0938-5010L
50 (27)	Excellent attenuation	30.3	4.0	1.2	7 kg	10	38-3	FMBC-0938-5010
64 (36)	Excellent attenuation	47.9	3.9	1.2	7.45 kg	25	37-3	FMBC-0937-6410

Most Popular.

Bemessungs- strom @ Tu 40°C	Characteristic	Tripped Power Dissipation [W]	Contact Resistance [m Ω]	Leakage Cur- rent [mA] @	Weight [kg]	Screw clamps [mm2] 2)	Housings	Order Number	
(75°C) [A]				440V, 60Hz 1)					

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

1) Nominal leakage current acc. to IEC60950 - 5.2.5. under normal operating conditions. Note: worst case leakage current acc. to IEC60950 - Annex G4 (situation with two interrupted lines) can be much higher.

2) Maximum conductor cross section (wire gauge) to be used; a comparative table for AWG and mm² values can be found in the general product information www.schurter. com/emc_info

Packaging unit 1 Pcs

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.