2-stage filter for 3-phase systems with neutral conductor



See below:

Approvals and Compliances

Description

- Terminals for three phases, neutral conductor and ground

Applications

- Voltage rating 520 VAC for world wide acceptance
- Protection against interference voltage from the mains
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters

Weblinks

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

Technical Data	
Rated Current	8 - 200 A
Rated voltage	300/520 VAC, 50/60 Hz
Approval for	8 - 200 A @ 50 (75) °C / 300/520 VAC; 50/60 Hz
Overload Current	1.5 x Ir for 1 minute, per hour
Dielectric Strength	300/520 VAC: 2.25 kVDC between L-L 1.7 kVDC between L-N 2.75 kVDC between L-PE 2.75 kVDC between N-PE Test voltage 2 sec
Number of Filter Stages	2-stage
Weight	1.1 - 8.6kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis
Terminal	Screw clamps
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP20 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

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.

Approvals

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

	Approval Logo	Certificates	Certification Body	Description
*	1 0	VDE Approvals	VDE	Certificate Number: 40031052
(: 71 °us	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
<u>IEC</u>	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
(h)	Designed according to	UL 1283	Electromagnetic interference filters

Application standards

Application standards where the product can be used

Organization	Design	Standard	Description
<u>IEC</u>	Designed for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

Compliances

The product complies with following Guide Lines

Details	Initiator	Description
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.
UKCA declaration of conformity	SCHURTER AG	The UKCA marking declares that the product complies with the applicable requirements laid down in the British Amendment of Regulation (EC) 765/2008.
RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
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	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.
	CE declaration of conformity UKCA declaration of conformity RoHS China RoHS	CE declaration of conformity SCHURTER AG UKCA declaration of conformity SCHURTER AG RoHS SCHURTER AG China RoHS SCHURTER AG

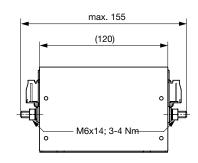
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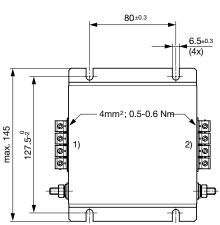
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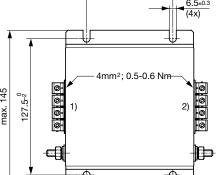
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Dimension [mm]

Case 2A

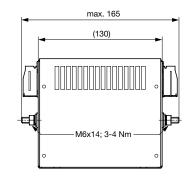


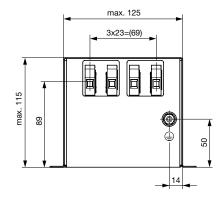


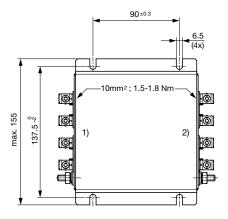


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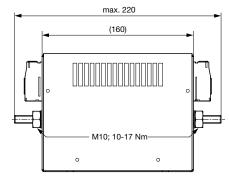
Case 2B

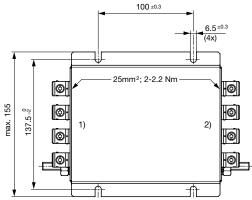


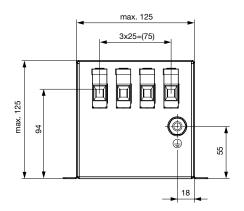




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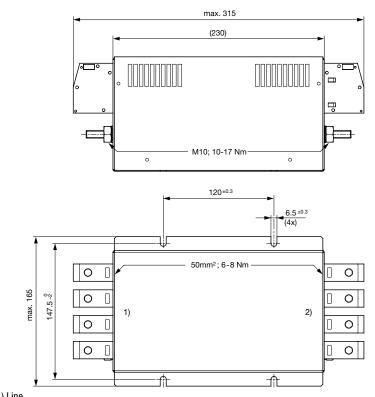


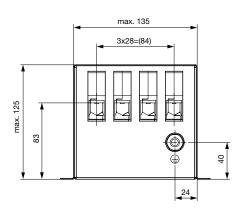




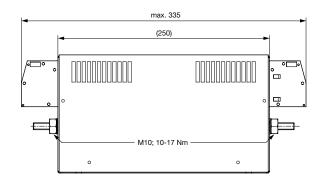
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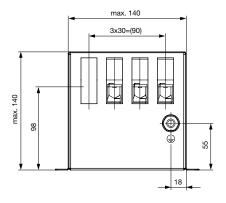
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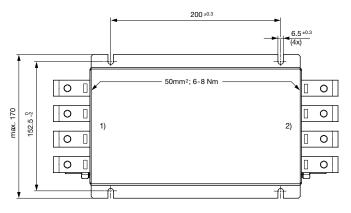




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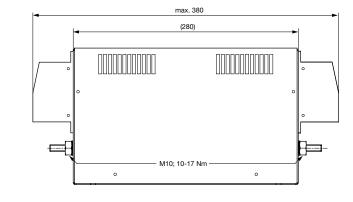


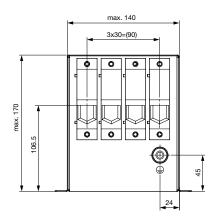


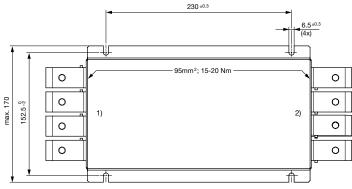


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Case 2F





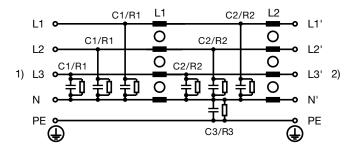


1) Line 2) Load

Technical data to the filter components

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Rated Current @ Ta 50°C (75°C) [A]	L1 [mH]	L2 [µH]	C1 [µF]	C2 [µF]	C3 [µF]	R1 [MΩ]	R2 [M Ω]	R3 [M Ω
8 (5)	2	4	2.2	2.2	3.4	-	1	2
16 (11)	1.3	12	2.2	2.2	3.4	-	1	2
25 (16)	1.6	12	4.7	4.7	3.4	1	1	2
36 (21)	1	12	4.7	4.7	3.4	1	1	2
64 (40)	0.7	7.5	4.7	4.7	3.4	1	1	2
80 (50)	0.6	9	8.2	8.2	3.4	1	1	2
120 (96)	0.6	9	13.6	13.6	3.4	0.5	0.5	2
160 (100)	0.4	9	13.6	13.6	3.4	0.5	0.5	2
200 (140)	0.3	9	13.6	13.6	3.4	0.5	0.5	2
16 (11)	1.3	12	2.2	2.2	0.05	-	1	2
8 (5)	2	4	2.2	2.2	0.05	-	1	2
25 (16)	1.6	12	4.7	4.7	0.05	1	1	2
36 (21)	1	12	4.7	4.7	0.05	1	1	2
64 (40)	0.7	7.5	4.7	4.7	0.05	1	1	2
80 (50)	0.6	9	8.2	8.2	0.05	1	1	2
120 (96)	0.6	9	13.6	13.6	0.05	0.5	0.5	2
160 (100)	0.4	9	13.6	13.6	0.05	0.5	0.5	2
200 (140)	0.3	9	13.6	13.6	0.05	0.5	0.5	2

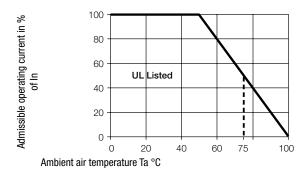
Diagrams



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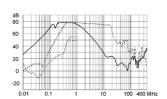
Derating Curves

Permissible Working Current as a Function of Ambient Temperature

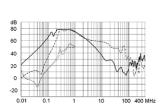


Industrial version

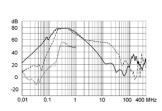




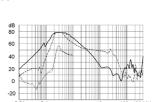
16A



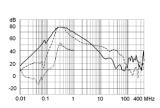
25A



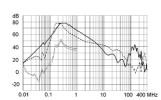
36A



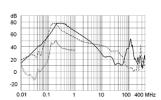
64A



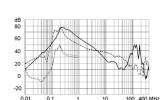
80A



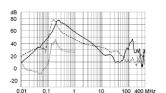
120 A



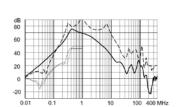
160 A



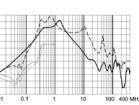
200A



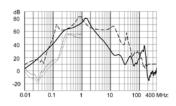
Low leakage current version



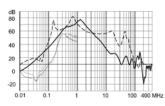






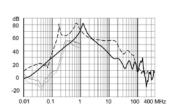






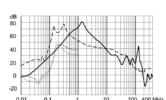
64 A

8 A

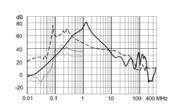


80 A

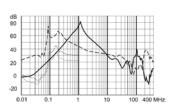
20



120 A



160 A



All Variants

Rated Current @ Ta 50°C (75°C) [A]	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Cur- rent [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housing	Packaging unit [PCS]	Order Number	
8 (5)	3.2	12.5	11.1	1.1 kg	4	2A	2	FMBD-B92A-0812	
16 (11)	7	6.8	11.1	1.2 kg	4	2A	2	FMBD-B92A-1612	
25 (16)	9.5	3.8	12.7	1.8 kg	10	2B	2	FMBD-B92B-2512	
36 (21)	12.5	2.4	12.7	2 kg	10	2B	2	FMBD-B92B-3612	
64 (40)	21.3	1.3	12.7	2.8 kg	25	2C	1	FMBD-B92C-6412	
80 (50)	22.6	0.88	13.2	5.7 kg	50	2D	1	FMBD-B92D-8012	
120 (96)	43.2	0.75	13.6	6.3 kg	50	2E	1	FMBD-B92E-J212	
160 (100)	37.9	0.37	13.6	8 kg	95	2F	1	FMBD-B92F-J612	
200 (140)	41.6	0.26	13.6	8.6 kg	95	2F	1	FMBD-B92F-K012	
16 (11)	7	6.8	1	1.2 kg	4	2A	2	3-108-667	
8 (5)	3.2	12.5	1	1.1 kg	4	2A	2	3-110-034	
25 (16)	9.5	3.8	1	1.8 kg	10	2B	2	3-110-035	
36 (21)	12.5	2.4	1	2 kg	10	2B	2	3-110-036	
64 (40)	21.3	1.3	1	2.8 kg	25	2C	1	3-110-037	
80 (50)	22.6	0.88	1	5.7 kg	50	2D	1	3-110-038	
120 (96)	43.2	0.75	1	6.3 kg	50	2E	1	3-110-039	
160 (100)	37.9	0.37	1	8 kg	95	2F	1	3-110-040	
200 (140)	41.6	0.26	1	8.6 kg	95	2F	1	3-110-041	

Most Popular.

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

¹⁾ Leakage current according IEC 60939-1

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 https://www.schurter.com/en/FAQ#10

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