#### 2-stage filter for 3-phase systems







See below:

## **Approvals and Compliances**

#### **Description**

- Terminals for three phases, neutral conductor and ground
- 2 stage
- Very high attenuation
- Industrial or low leakage current versions

## **Unique Selling Proposition**

- Compact design with small footprint
- Double-stage filter for high attenuation
- Light weight design
- Wide temperature range

#### **Applications**

- Voltage rating 520 or 760 VAC for various applications
- Protection against interference voltage from the mains
- Especially designed for industrial applications such as: Frequency Converters, Stepper Motor Drives, UPS-Systems, Inverters
- Suitable for use in equipment according to IEC/UL 62368-1

### Weblinks

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

#### **Technical Data**

Rated Current	16 - 230A			
Rated voltage	520/760 VAC, 50/60 Hz			
Approval for	16 - 230 A @ 50 °C / 520/760 VAC; 50/60 Hz			
Overload Current	1.5 x Ir for 1 minute, per hour			
Dielectric Strength	> 520V / 2.25 kVDC between L-L > 520V / 2.75 kVDC between L-PE			
	> 760V / 3.27 kVDC between L-L > 760V / 3.20 kVDC between L-PE Test voltage 2 sec			
Number of Filter Stages	2-stage			
Weight	1 - 5.9kg			
Material: Housing	Metal			
Sealing Compound	UL 94V-0			

to IEC 60068-1
C 60529
oliances with protection EC 61140
c. 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
10	VDE Approvals	VDE	Certificate Number: 40053230
c <b>SU</b> °us	UL Approvals	UL	UL File Number: E495089

## **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

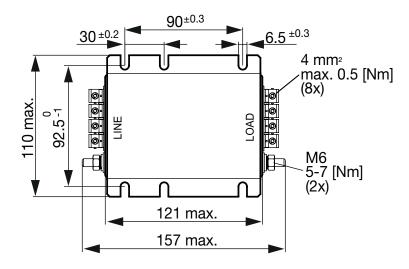
### Compliances

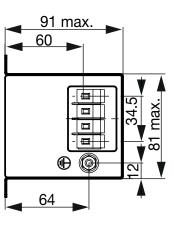
The product complies with following Guide Lines

The product of the pr								
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	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863					
<b>©</b>	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.					

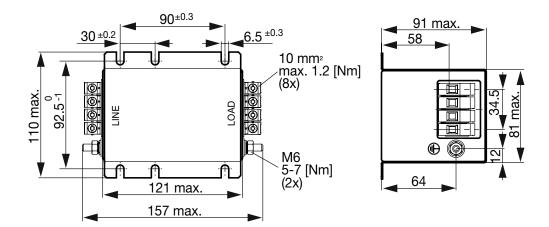
## Dimension [mm]

Case 5A-4

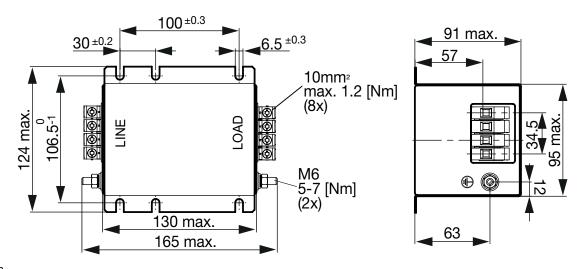




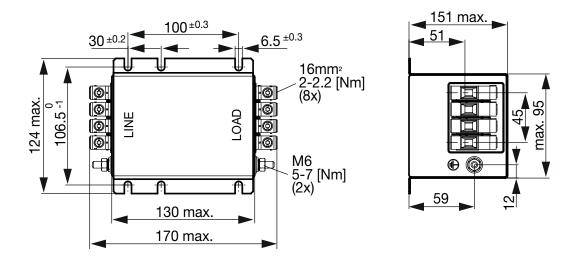
Case 5A-10



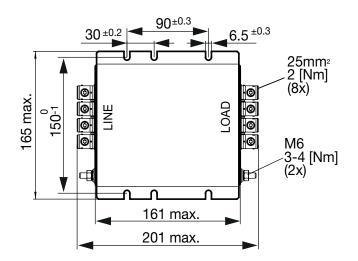
Case 5B-10

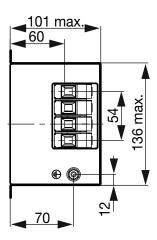


Case 5B-16

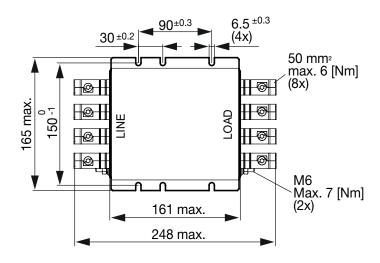


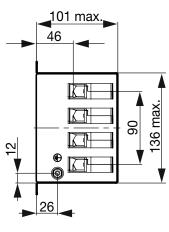
Case 5C-25



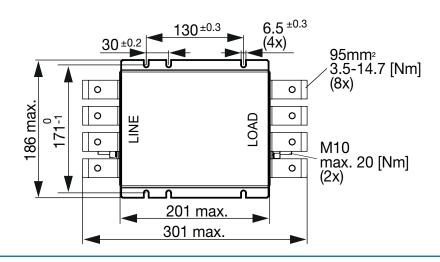


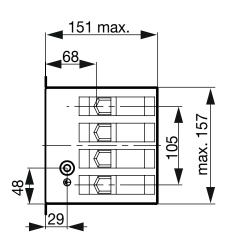
Case 5C-50





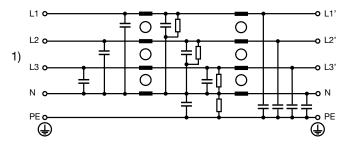
Case 5D-95



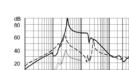


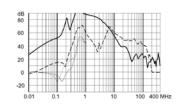
# **Diagrams**

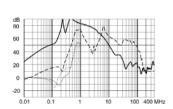
Low leakage current version

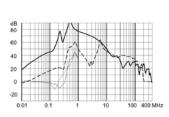


1) Line



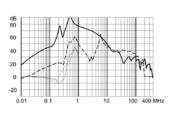






50 A / 760 V

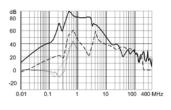
230 A / 520 V



64 A / 760 V

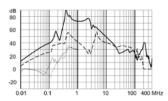
230 A / 760 V

16 A / 760 V



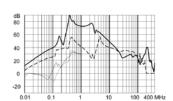
80 A / 760 V

25 A / 760 V

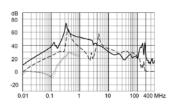


110 A / 760 V

36 A / 760 V



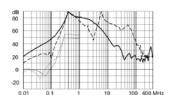
180 A / 760 V



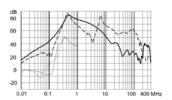
6B 80 60 40 40 40 MHz

## Low leakage current version

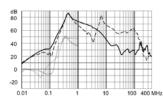
## 16 A / 520 V



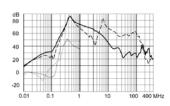
## 25 A / 520 V



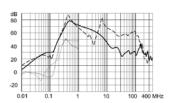
# 36 A / 520 V



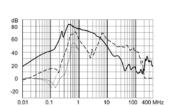
## 50 A / 520 V



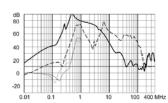
64 A / 520 V



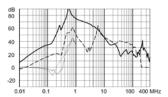
16 A / 760 V



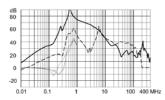
25 A / 760 V



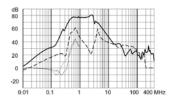
36 A / 760 V



50 A / 760 V



64 A / 760 V



## **All Variants**

Rated Current @ Ta 50°C [A]	Rated Voltage [VAC]	Filter Type	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Cur- rent [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housing	Order Number
16	520	Industrial version	1.3	4.9	6.82	1 kg	4	5A-4	3-128-371
25	520	Industrial version	1.6	2.5	9.42	1.1 kg	10	5A-10	3-128-412
36	520	Industrial version	2.1	1.6	9.42	1.35 kg	10	5B-10	3-128-413
50	520	Industrial version	4	1.6	9.42	1.35 kg	10	5B-10	3-128-414
64	520	Industrial version	5	1.2	9.42	1.6 kg	16	5B-16	3-128-415
80	520	Industrial version	7.7	1.2	9.42	2.5 kg	25	5C-25	3-128-416
110	520	Industrial version	15.8	1.3	9.42	3.3 kg	50	5C-50	3-128-417
180	520	Industrial version	13	0.4	8.97	4.8 kg	95	5D	3-128-418
230	520	Industrial version	10.6	0.2	8.97	5.9 kg	95	5D	3-128-419
16	520	Low leakage current version	1.3	4.9	2.55	1 kg	4	5A-4	3-128-420
25	520	Low leakage current version	1.6	2.5	2.55	1.1 kg	10	5A-10	3-128-421
36	520	Low leakage current version	2.1	1.6	2.56	1.35 kg	10	5B-10	3-128-422
50	520	Low leakage current version	4	1.6	2.56	1.35 kg	10	5B-10	3-128-423
64	520	Low leakage current version	5	1.2	2.56	1.6 kg	16	5B-16	3-128-424
16	760	Industrial version	1.3	4.9	6.37	1 kg	4	5A-4	3-128-425
25	760	Industrial version	1.6	2.5	6.37	1.1 kg	10	5A-10	3-128-426
36	760	Industrial version	2.1	1.6	6.37	1.35 kg	10	5B-10	3-128-427
50	760	Industrial version	4	1.6	6.37	1.35 kg	10	5B-10	3-128-428
64	760	Industrial version	5	1.2	6.37	1.6 kg	16	5B-16	3-128-429
80	760	Industrial version	7.7	1.2	8.97	2.5 kg	25	5C-25	3-128-430

D	B . 11/1	F11 T	T: ID	0		144 : 1 .			0 1 11 1
Rated Current @ Ta 50°C [A]	Rated Voltage [VAC]	Filter Type	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Cur- rent [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housing	Order Number
110	760	Industrial version	15.8	1.3	8.97	3.3 kg	50	5C-50	3-128-431
180	760	Industrial version	13	0.4	8.97	4.8 kg	95	5D	3-128-432
230	760	Industrial version	10.6	0.2	8.97	5.9 kg	95	5D	3-128-433
16	760	Low leakage current version	1.3	4.9	2.11	1 kg	4	5A-4	3-128-434
25	760	Low leakage current version	1.6	2.5	2.11	1.1 kg	10	5A-10	3-128-435
36	760	Low leakage current version	2.1	1.6	2.11	1.35 kg	10	5B-10	3-128-436
50	760	Low leakage current version	4	1.6	2.11	1.35 kg	10	5B-10	3-128-437
64	760	Low leakage current version	5	1.2	2.11	1.6 kg	16	5B-16	3-128-438

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

<sup>2)</sup> 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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1 Pcs

<sup>1)</sup> Leakage current according IEC 60939-1