1-stage filter for 3-phase systems

new

Case 4C-50

See below:
Approvals and Compliances

Description

- Terminals for three phases and ground
- 1 stage
- Very high attenuation
- Industrial or low leakage current versions

Unique Selling Proposition

- Compact design with small footprint
- Single-stage filter for high efficiency
- Light weight design
- Wide temperature range

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
- 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 - 230 A
Rated voltage	300/520 VAC, 50/60 Hz
Approval for	16 - 230 A @ 50 °C / 300/520 VAC; 50/60 Hz
Overload Current	1.5 x Ir for 1 minute, per hour
Dielectric Strength	> 2.25 kVDC between L-L > 2.75 kVDC between L-PE Test voltage 2 sec
Number of Filter Stages	1-stage
Weight	0.9 - 4 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

Mounting	Screw-on mounting on chassis
Terminal	Screw clamps
Operating Temperature	-40 °C to 100 °C
Climatic Category	40/100/21 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	> 200'000 h 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: FMAC NEO

Approval Logo	Certificates	Certification Body	Description
	VDE Approvals	VDE	Certificate Number: 40049000
c UL us	UL Approvals	UL	UL File Number: E72928

Product standards

Product standards that are referenced

Organization	Design	Standard	Description
IEC	Designed according to	IEC 60939	Passive filters for suppressing electromagnetic interference
UL	Designed according to	UL 1283	Electromagnetic interference filters

Application standards

Application standards where the product can be used

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

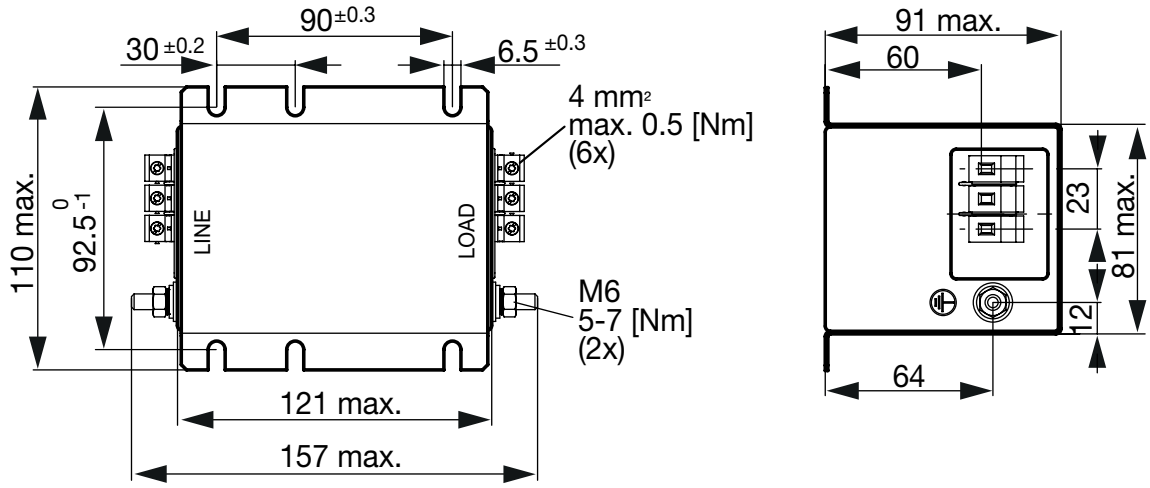
Compliances

The product complies with following Guide Lines

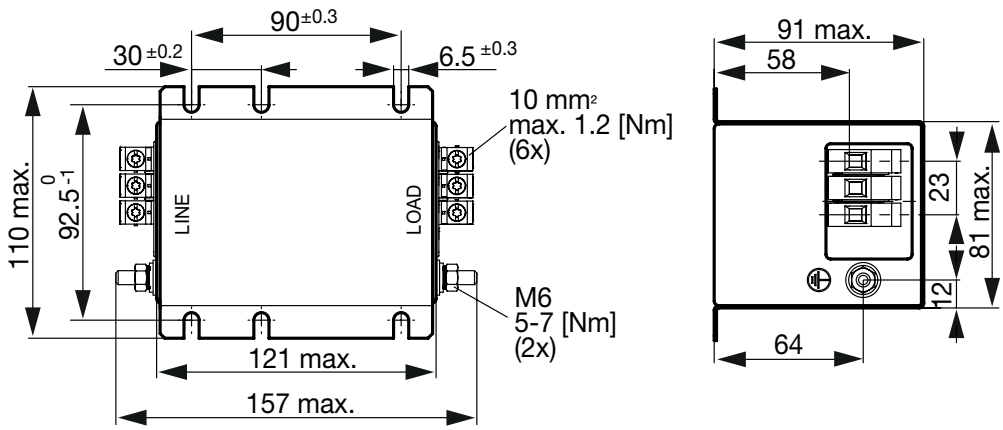
Identification	Details	Initiator	Description
CE	CE declaration of conformity	SCHURTER AG	The CE marking declares that the product complies with the applicable requirements laid down in the harmonisation of Community legislation on its affixing in accordance with EU Regulation 765/2008.
UKCA	UKCA declaration 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	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
China RoHS	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]

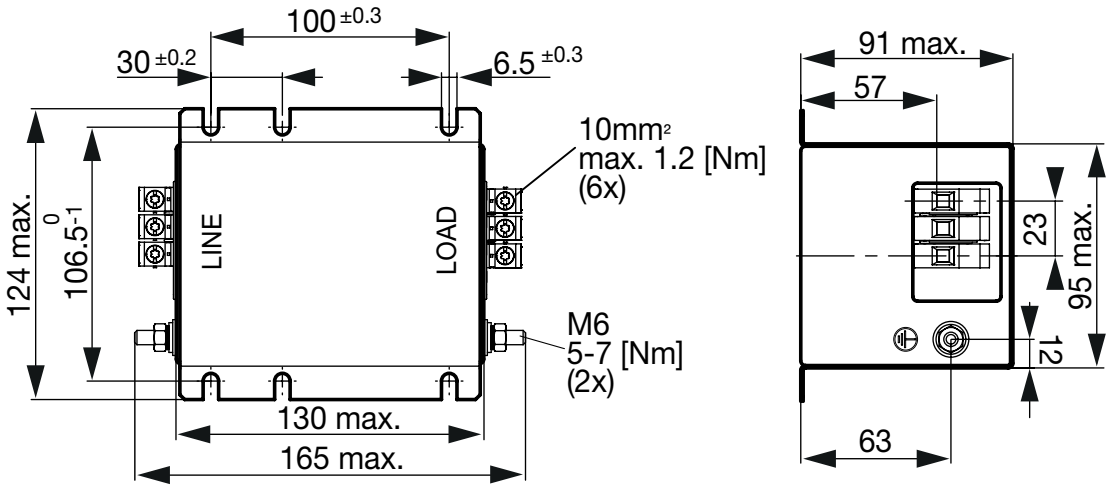
Case 5A-4



Case 5A-10



Case 5B-10



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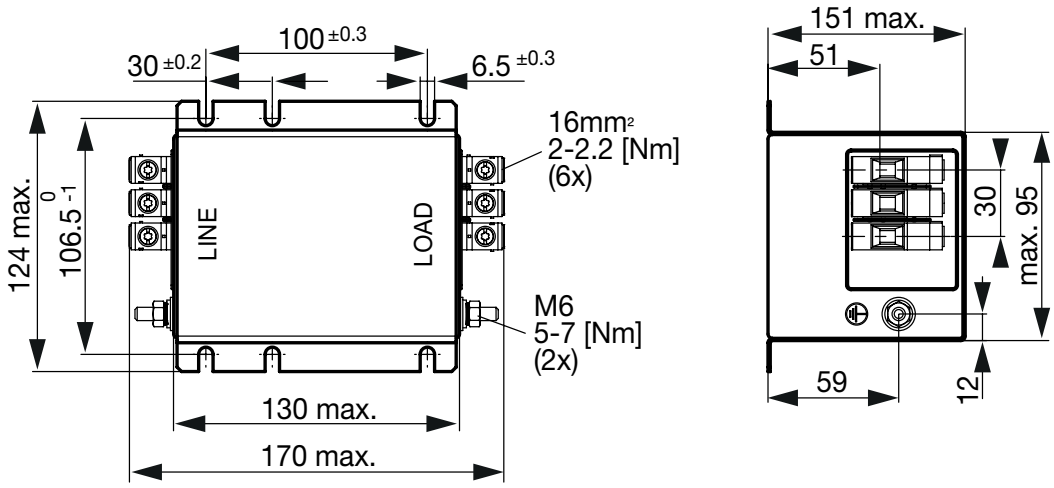
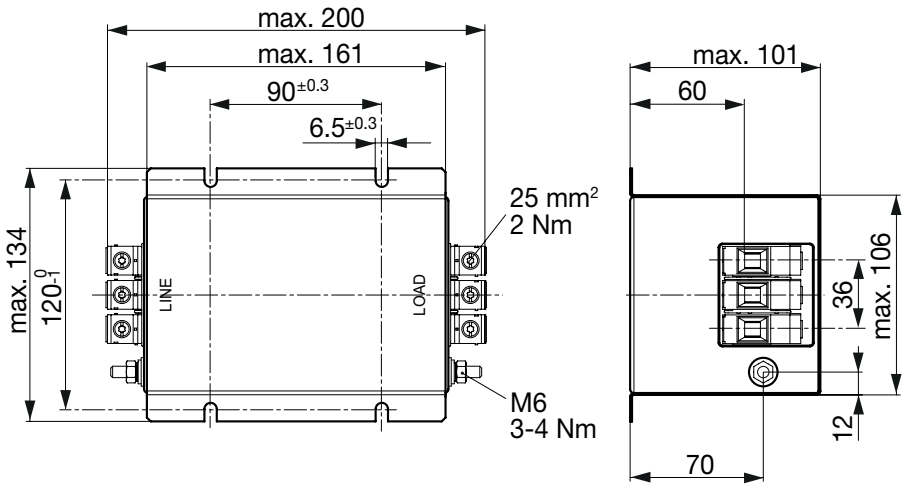
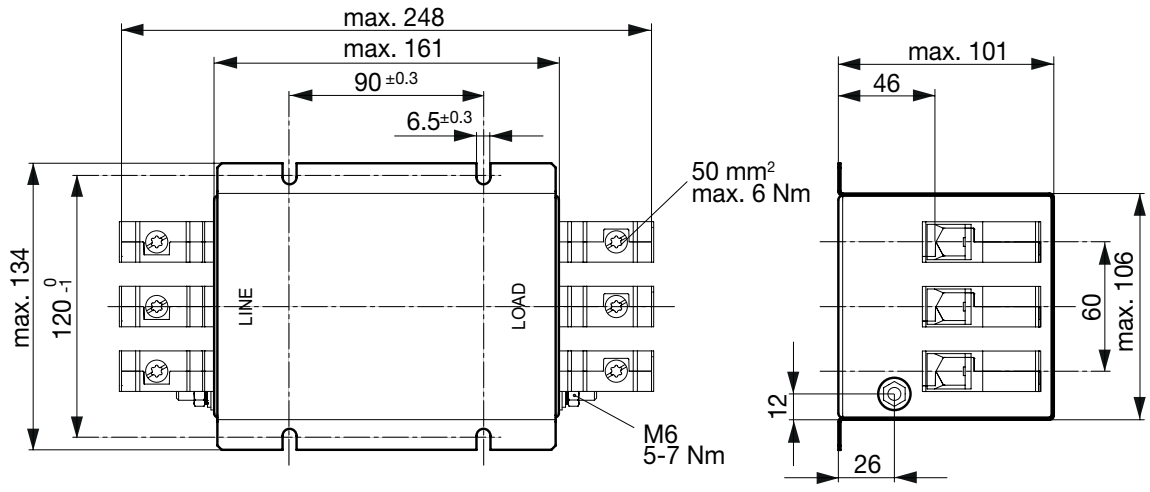


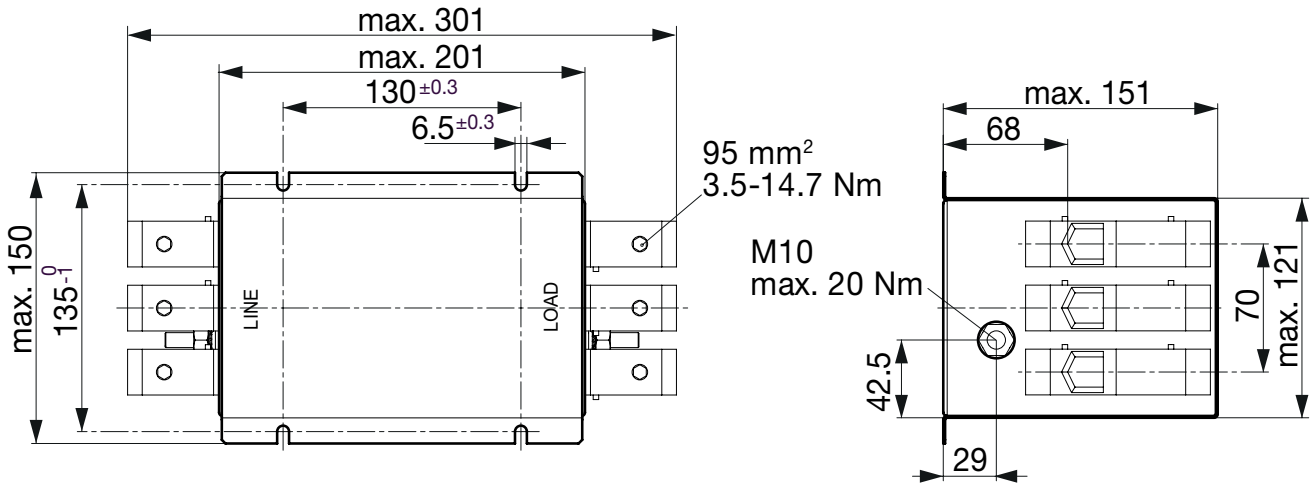
Case 4C-25



Case 4C-50

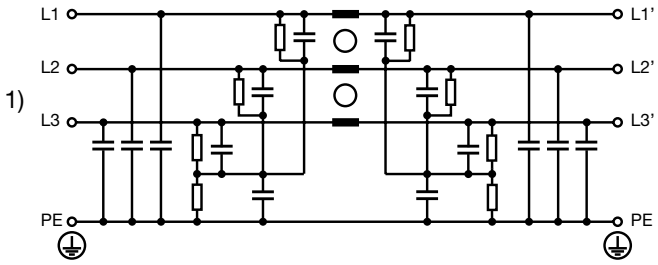


Case 4D



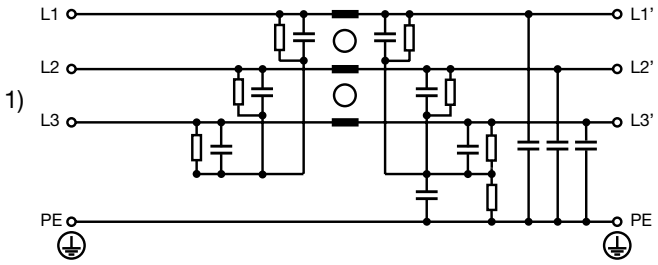
Diagrams

Industrial version



1) Line

Low leakage current version



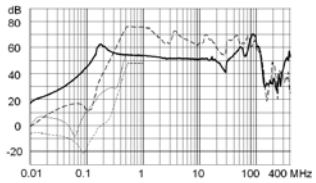
1) Line

Attenuation Loss

- - - - 50Ω differential mode _____ 50Ω common mode

Industrial version

16 A



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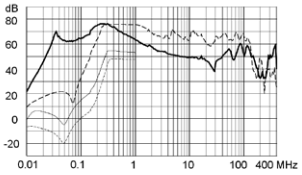
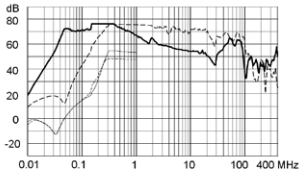
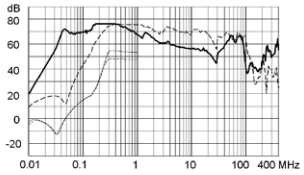


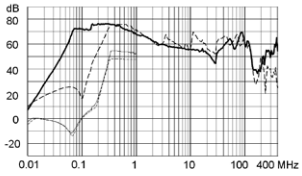
36 A



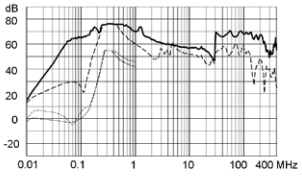
50 A



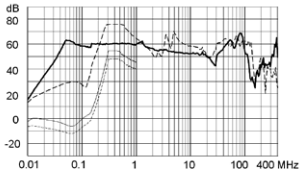
64 A



80 A



110 A



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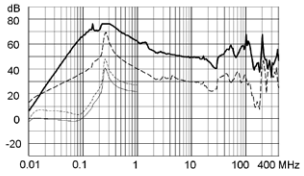
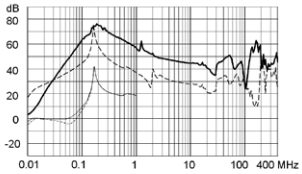
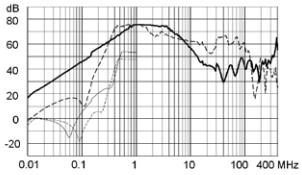


230 A



Low leakage current version

16 A



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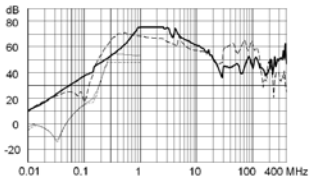

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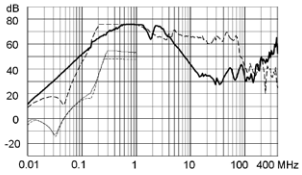

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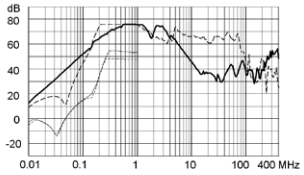

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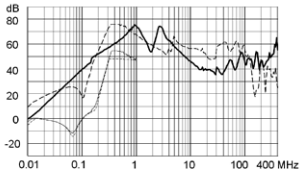

All Variants

Rated Current @ Ta 50°C [A]	Filter Type	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housing	Order Number
16	Industrial version	1.6	6.2	10.5	0.9 kg	4	5A-4	3-104-580
25	Industrial version	1.9	3	10.7	1.1 kg	10	5A-10	3-104-581
36	Industrial version	3.2	2.4	10.7	1.2 kg	10	5B-10	3-104-582
50	Industrial version	6	2.4	11.4	1.2 kg	10	5B-10	3-104-583
64	Industrial version	3.7	0.9	11.4	1.3 kg	16	5B-16	3-104-584
80	Industrial version	4	0.6	12.2	1.4 kg	25	4C-25	3-104-585
110	Industrial version	4.9	0.4	12.2	2.5 kg	50	4C-50	3-104-586

Rated Current @ Ta 50°C [A]	Filter Type	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Leakage Current [mA] @ 440V, 60Hz 1)	Weight [kg]	Screw clamps [mm2] 2)	Housing	Order Number	
180	Industrial version	4.4	0.1	12.2	3 kg	95	4D	3-104-587	▮
230	Industrial version	5.8	0.1	13.1	4 kg	95	4D	3-104-588	▮
16	Low leakage current version	1.6	6.2	1.4	0.9 kg	4	5A-4	3-104-862	▮
25	Low leakage current version	1.9	3	3	1.1 kg	10	5A-10	3-104-841	▮
36	Low leakage current version	3.2	2.4	3	1.2 kg	10	5B-10	3-104-872	▮
50	Low leakage current version	6	2.4	3	1.2 kg	10	5B-10	3-104-873	▮
64	Low leakage current version	3.7	0.9	3	1.3 kg	16	5B-16	3-104-874	▮

▮ 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

Packaging unit 1 Pcs

04.01.2022