



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



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



**Description**

- Terminals for three phases, neutral conductor and ground

**Standards**

- IEC 60939  
- UL 1283, Edition 5, CSA 22.2 No. 8-M1986, @ Ta 75 °C

**Approvals**

- VDE Certificate Number: pending  
- UL File Number: E72928

**Applications**

- 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](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [REACH](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

**Technical Data**

Rated Current	6 - 550A
Rated voltage	277/480VAC, 50/60 Hz
Approval for	6 - 550A @ 40 (75) °C / 277/480VAC
Overload Current	1.5 x Ir
Leakage Current	industrial < 5 mA (440V / 50Hz)
Dielectric Strength	277/480 VAC: 2.25 kVDC between L-L 1.7 kVDC between L-N 3 kVDC between L-PE 2.7 kVDC between N-PE Test voltage (2 sec)
Number of Filter Stages	1-stage
Weight	0.95 - 24.5 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

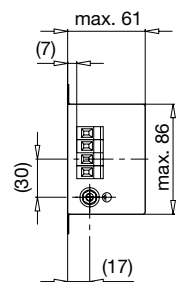
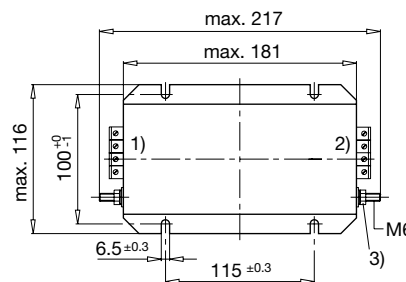
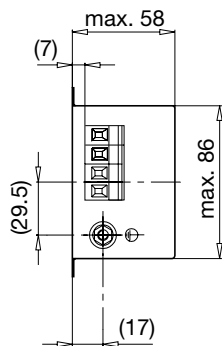
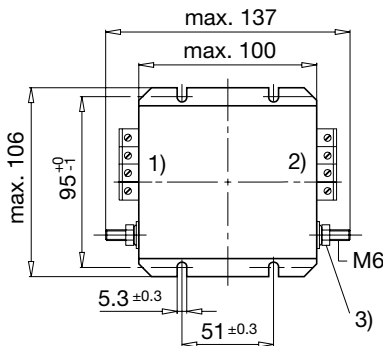
Mounting	Screw-on mounting on chassis, from top
Terminal	Screw clamps
Operating Temperature	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
MTBF	> 200'000h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

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [General Product Information](#)

**Dimension**

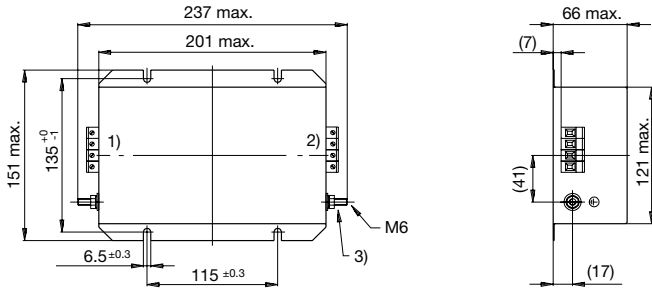
Case 24-4

Case 31-4

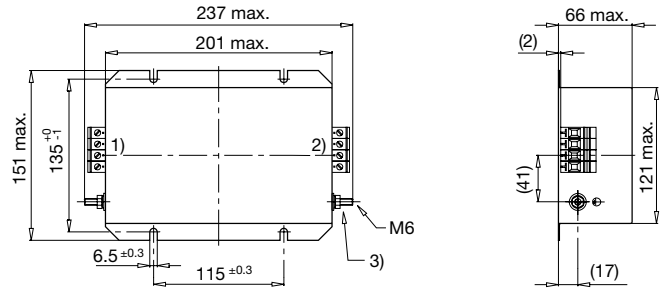


- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm

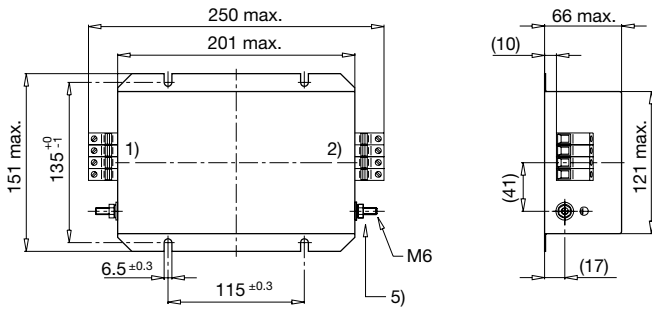
Case 32-4



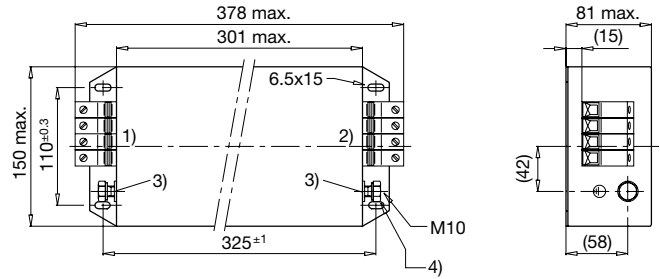
Case 32-8



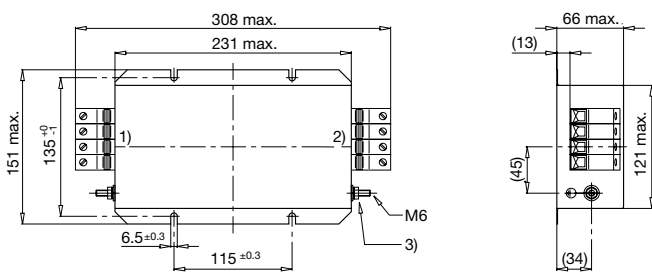
Case 34-4



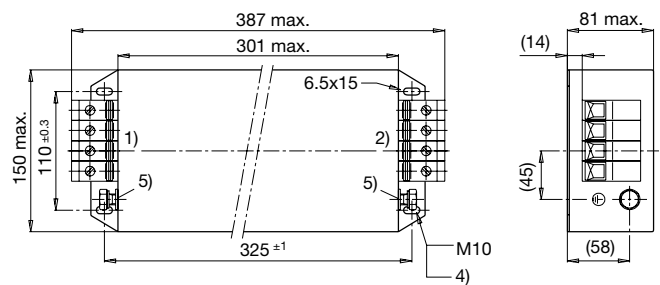
Case 37-4



Case 53-4

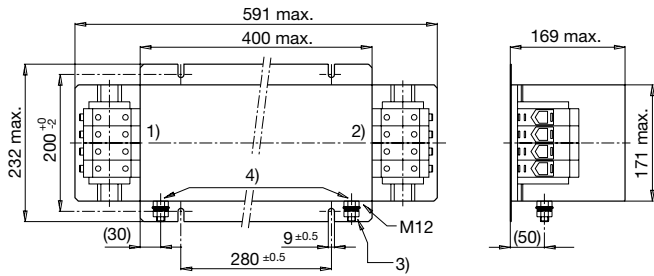


Case 54-4

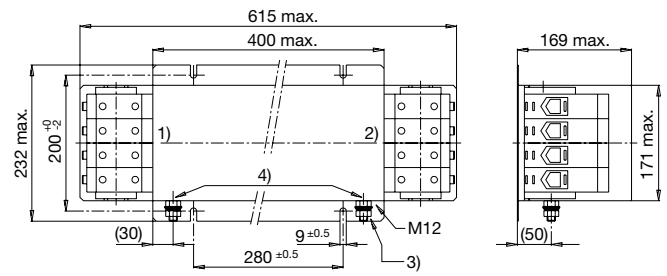


- 1) Line
- 2) Load
- 3) Tightening torque 3...4 Nm
- 4) Tightening torque 10...17 Nm
- 5) Do not unscrew lock-nut

Case 55-4

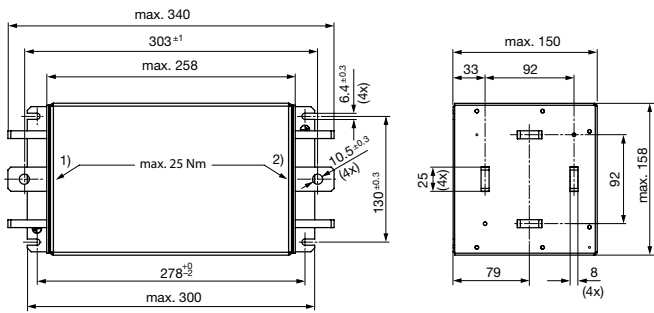


Case 56-4



- 1) Line
- 2) Load
- 3) Nut torque 14...30 Nm
- 4) Do not unscrew lock-nut

Case KQ



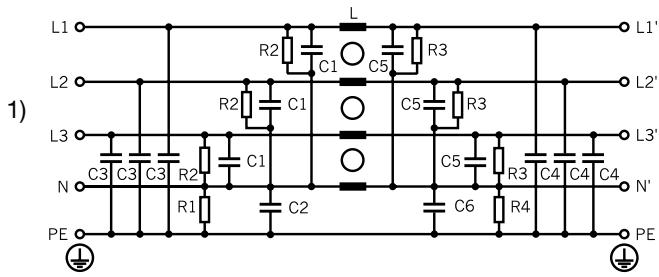
- 1) Line
- 2) Load
- 3) Torsional stress at flat copper max. 25 Nm

**Technical data to the filter components**

Rated Current @ Ta 40°C (75°C) [A]	L [mH]	C1 [µF]	C2 [µF]	C3 [nF]	C4 [nF]	C5 [µF]	C6 [µF]	R1 [MΩ]	R2 [MΩ]	R3 [MΩ]	R4 [MΩ]
6 (4.8)	9	1.0	-	100	10	2.2	-	-	-	1	2.2
8 (5)	8	1.0	-	100	10	2.2	-	-	-	1	2.2
16 (9.5)	5	1.0	-	100	10	2.2	-	-	-	1	2.2
25 (13)	2.6	4.4	1	10	47	4.4	1	-	1	1	2.2
36 (19)	1.8	4.4	1	10	47	4.4	1	2.2	1	1	-
50 (32)	0.8	4.4	1	10	100	4.4	1	2.2	1	1	-
64 (34)	0.6	4.4	1	10	100	4.4	1	2.2	1	1	-
80 (43)	0.9	6.6	1	47	100	6.6	1	2.2	1	1	-
110 (66)	0.5	6.6	1	47	100	6.6	1	2.2	1	1	-
180 (95)	0.25	6.6	1	47	100	6.6	1	2.2	1	1	2.2
250 (120)	0.2	11	1	100	100	11	1	2.2	0.5	0.5	2.2
550 (320)	0.2	10	1	100	100	10	1	2.2	0.5	0.5	2.2



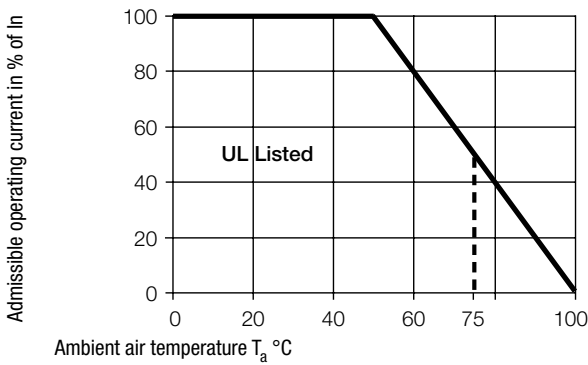
Diagrams



1) Line

Derating Curves

Permissible Working Current as a Function of Ambient Temperature

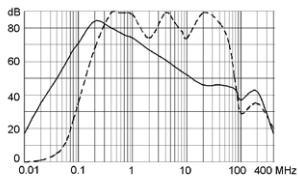


Attenuation Loss

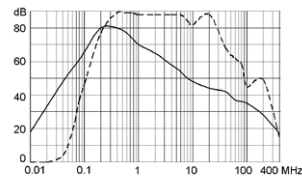
--- 50Ω differential mode    \_\_\_\_ 50Ω common mode

Industrial version

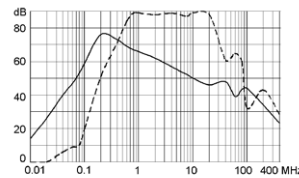
6A (FMAD-0924-0610)



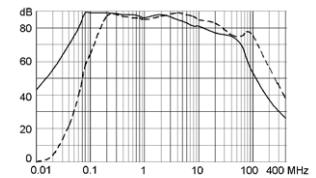
8A (FMAD-0931-0810)



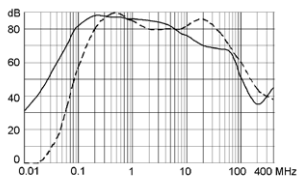
16A (FMAD-0931-1610)  
16A (FMAD-0932-1610)



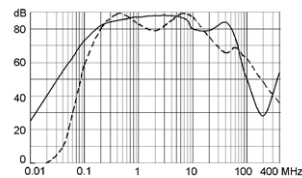
25A (FMAD-0932-2510)



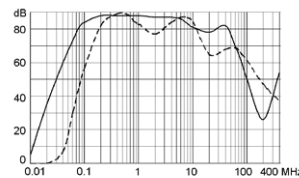
36A (FMAD-0934-3610)



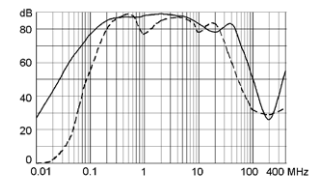
50A (FMAD-0934-5010)



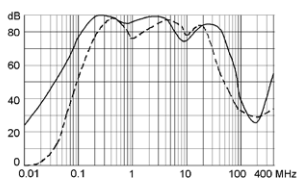
64A (FMAD-0953-6410)



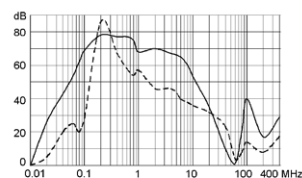
80A (FMAD-0937-8010)



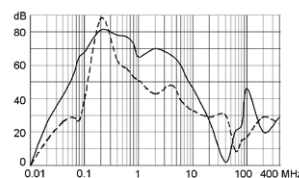
110A (FMAD-0954-H110)



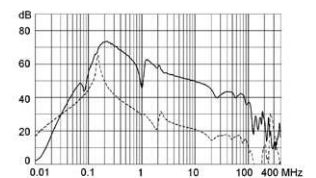
180A (FMAD-0955-H210)



250A FMAD-0956-H310



550A FMAD-09KQ-H650



All Variants

Rated Current @ Ta 40°C (75°C) [A]	Leakage Current [mA] @ 440V, 60Hz <sup>1)</sup>	Tripped Power Dissipation [W]	Contact Resistance [mΩ]	Weight [kg]	Clamps [mm <sup>2</sup> ]	Housings	Order Number
6 (4.8)	1.3	3.9	27	0.95 kg	4	24-4	FMAD-0924-0610
8 (5)	1.3	9	35	1.9 kg	4	31-4	FMAD-0931-0810
16 (9.5)	1.3	15.4	15	2.1 kg	4	31-4	FMAD-0931-1610
16 (9.5)	1.3	15.4	15	3.1 kg	4	32-4	FMAD-0932-1610
25 (13)	8.4	11.5	4.6	3.35 kg	6	32-8	FMAD-0932-2510
36 (19)	8.4	21	4	3.4 kg	10	34-4	FMAD-0934-3610
50 (32)	9.0	20	2	3.4 kg	10	34-4	FMAD-0934-5010
64 (34)	9.0	27	1.6	4.3 kg	25	53-4	FMAD-0953-6410
80 (43)	9.7	39	1.5	7.35 kg	25	37-4	FMAD-0937-8010
110 (66)	9.7	58	1.2	7.25 kg	50	54-4	FMAD-0954-H110
180 (95)	9.7	51	0.39	22 kg	95	55-4	FMAD-0955-H210
250 (120)	10.4	62.5	0.25	24.5 kg	240	56-4	FMAD-0956-H310
550 (320)	10.4	36	0.03	10.6 kg	10)	KQ	FMAD-09KQ-H650

Most Popular.

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

10) Connection straps for M10

6A version: packing unit 2 pcs.

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.

**Packaging unit** 1 Pcs