



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!



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



1- stage filter for 3-phase systems



Description

- 3 phase line filter with standard attenuation
- Available as high voltage filter (up to 520 VAC)

Standards

- IEC 60939
- UL 1283, edition 5 and CSA 22.2 No. 8-M1986 @ Ta 75°C for filter types with excellent attenuation up to 110A and high attenuation filter (L-) types. UL PENDING for filter types with excellent attenuation with rated current >110A and high voltage filter (-I) types.

Approvals

- VDE Certificate Number: 40004666 + 40004673
- UL File Number: E72928

Applications

- Voltage rating 480 and 520 VAC for world wide acceptance
- Protection against interference voltage from the mains
- For photovoltaic systems 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

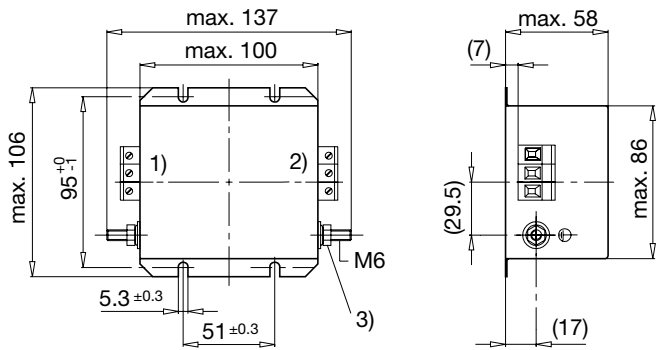
Rated Current	6 - 1100A
Rated voltage	480/520 VAC, 50/60 Hz
Approval for	6 - 1100A @ Ta 40 (75) °C / 520 VAC; 50Hz
Overload Current	1.5 x Ir
Leakage Current	industrial < 15mA (440V / 50Hz)
Dielectric Strength	480VAC: 2.25 kVDC between L-L
	3kVDC between L-PE
	520VAC: 2.25 kVDC between L-L
	4 kVDC between L-PE Test voltage (2 sec)
Number of Filter Stages	1-stage
Weight	0.9 - 47kg
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](#)

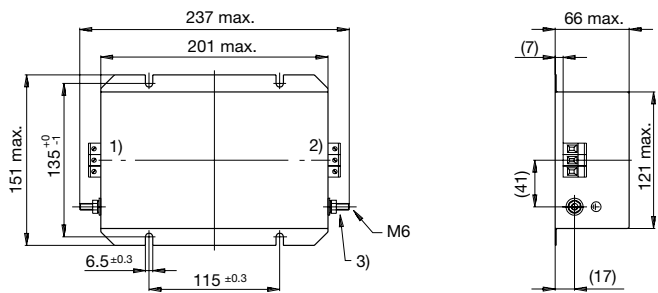
Dimension

Case 24-3

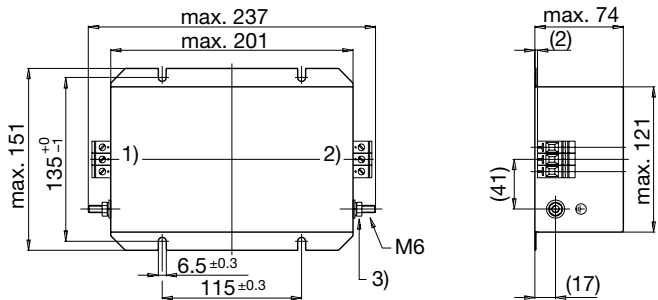


- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm

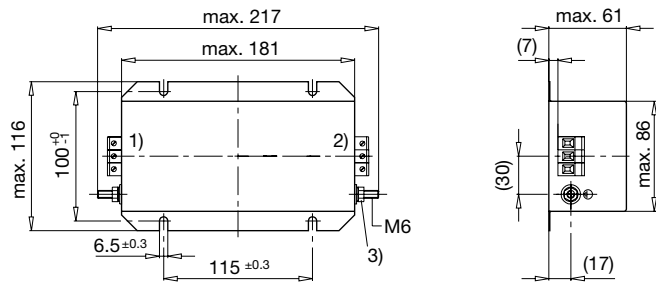
Case 32-3



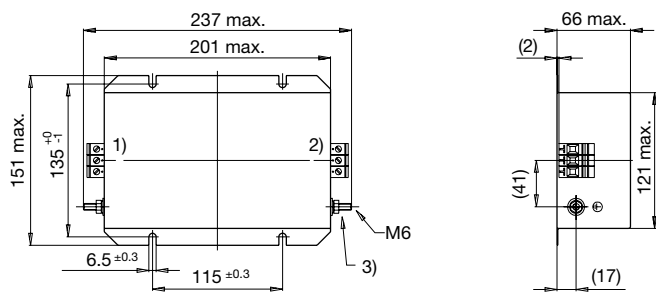
Case 32-C



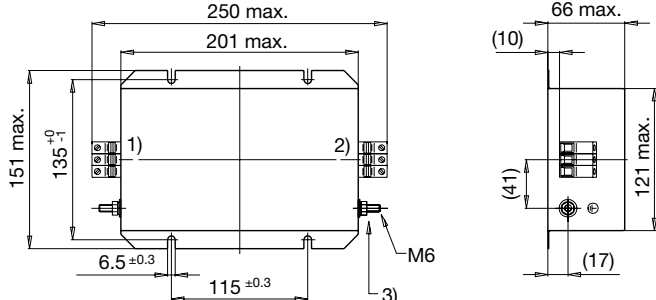
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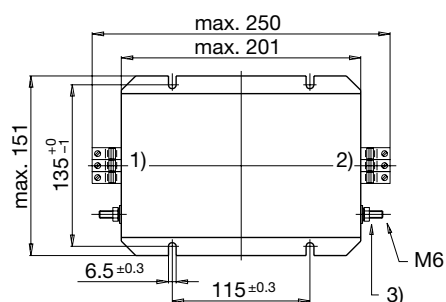
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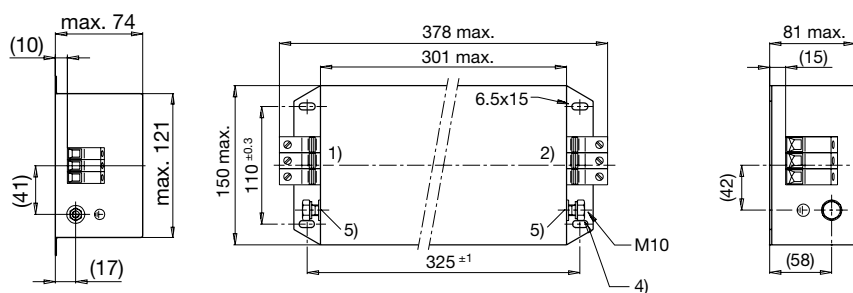
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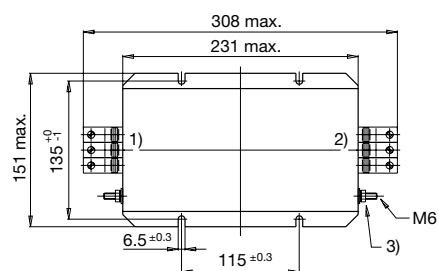
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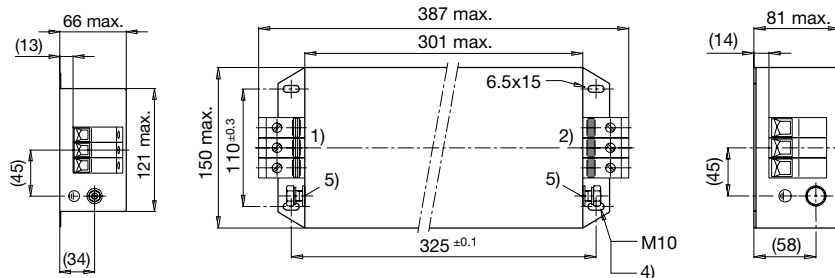
Case 37-3



Case 53-3

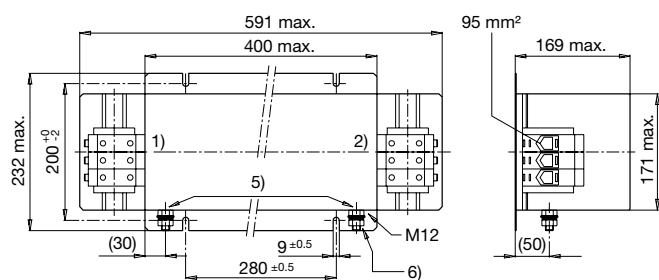


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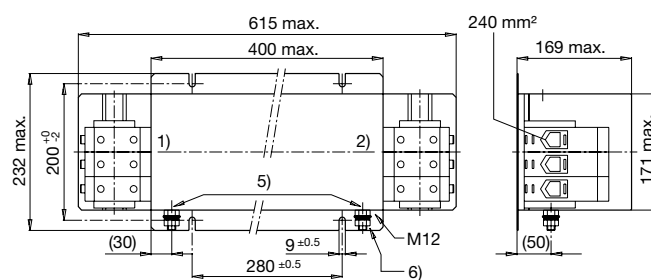


- 1) Line
- 2) Load
- 3) Tightening torque 3...4 Nm
- 4) Tightening torque 10...17 Nm
- 5) Do not unscrew lock-nut

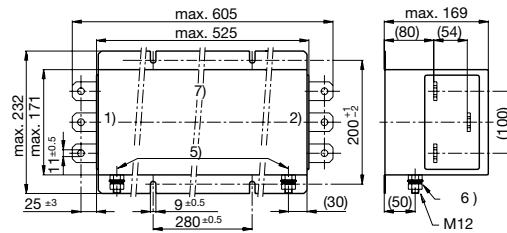
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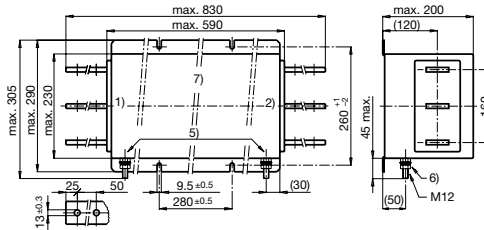
Case 56-3



Case 57



Case 74

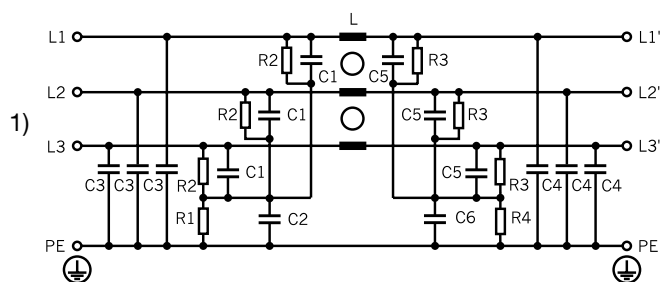


- 1) Line
- 2) Load
- 5) Do not unscrew lock-nut
- 6) Tightening torque 14...30 Nm
- 7) Current plates 720 mm² (60x12)

Technical data to the filter components

Rated Current @ Ta 40°C (75°C)	Characteristic	Rated Voltage [VAC]	L [mH]	C1 [μF]	C2 [μF]	C3 [nF]	C4 [nF]	C5 [μF]	C6 [μF]	R1 [MΩ]	R2 [MΩ]	R3 [MΩ]	R4 [MΩ]
6 (6)	Excellent attenuation	-	10	1.0	-	100	10	2.2	-	-	-	1	1
8 (5)	Excellent attenuation	480	10	1.0	-	100	10	2.2	-	-	-	1	1
16 (10)	Excellent attenuation	480	6	1.0	-	100	10	2.2	-	-	-	1	1
16 (Pending)	High voltage filter	520	6	1.5	-	50	11	1.5	-	2	1	1	2
16 (10)	Excellent attenuation	-	6	1.0	-	100	10	2.2	-	-	-	1	1
25 (15)	Excellent attenuation	-	3	4.4	1	10	47	4.4	1	2.2	1	1	2.2
25 (14)	High attenuation	-	2.4	4.4	1	10	47	4.4	1	2.2	-	1	2
25 (Pending)	High voltage filter	520	3	3	1.1	50	11	3	1.1	2	1	1	2
36 (20)	High attenuation	-	1.5	4.4	1	10	47	4.4	1	2.2	-	1	2
36 (Pending)	High voltage filter	520	2	3	1.1	50	11	3	1.1	2	1	1	2
50 (32)	Excellent attenuation	-	1	4.4	1	10	100	4.4	1	2.2	1	1	2.2
50 (30)	High attenuation	-	1	4.4	1	10	100	4.4	1	2.2	-	1	2
50 (Pending)	High voltage filter	520	1	3	1.1	50	11	3	1.1	2	1	1	2
64 (37)	High attenuation	-	0.6	4.4	1	10	100	4.4	1	2.2	-	1	2
80 (45)	Excellent attenuation	-	1	6.6	1	47	100	6.6	1	2.2	1	1	2.2
80 (Pending)	High voltage filter	520	1	4.5	1.1	50	50	4.5	1.1	2	1	1	2
64 (37)	Excellent attenuation	480	0.6	4.4	1	10	100	4.4	1	2.2	1	1	2.2
64 (Pending)	High voltage filter	520	0.6	3	1.1	50	11	3	1.1	2	1	1	2
110 (70)	Excellent attenuation	-	0.7	6.6	1	47	100	6.6	1	2.2	1	1	2.2
110 (Pending)	High voltage filter	520	0.7	4.5	1.1	50	50	4.5	1.1	2	1	1	2
180 (Pending)	Excellent attenuation	-	0.4	6.6	1	47	100	6.6	1	2.2	1	1	2.2
180 (Pending)	High voltage filter	520	0.4	4.5	1.1	50	50	4.5	1.1	2	1	1	2
250 (Pending)	Excellent attenuation	-	0.3	11	1	100	100	11	1	2.2	0.5	0.5	2.2
250 (Pending)	High voltage filter	520	0.3	7.5	1.1	50	50	7.5	1.1	2	1	1	2
340 (Pending)	Excellent attenuation	-	0.2	11	1	100	100	22	1	2.2	0.33	0.33	2.2
340 (Pending)	High voltage filter	520	0.2	7.5	1.1	50	50	15	1.1	2	1	1	2
450 (Pending)	Excellent attenuation	-	0.2	11	1	100	100	22	1	2.2	0.33	0.33	2.2
550 (Pending)	Excellent attenuation	-	0.2	11	1	100	100	22	1	2.2	0.33	0.33	2.2
1100 (Pending)	High voltage filter	520	0.12	11	1.1	50	-	22	1.1	2	0.5	0.25	2

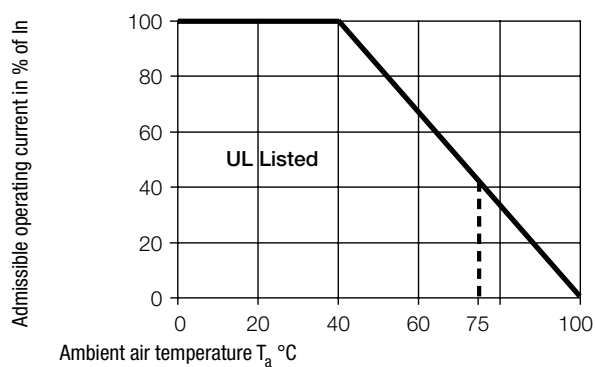
Diagrams



1) Line

Derating Curves

Permissible Working Current as a Function of Ambient Temperature



All Variants

Rated Current @ Ta 40°C (75°C) [A]	Characteristic	Rated Voltage [VAC]	Tripped Power Dissipation [W]	Leakage Current [mA] @ 440V, 60Hz ¹⁾	Contact Resistance [mΩ]	Weight [kg]	Screw clamps [mm ²] ²⁾	Housings	Order Number
6 (6)	Excellent attenuation	-	2.48	40	23	0.9kg	4	24-3	FMAC-0924-0610
8 (5)	Excellent attenuation	480	5.38	1.3	28	1.8kg	4	31-3	FMAC-0931-0810
16 (10)	Excellent attenuation	480	8.83	1.3	11.5	1.8kg	4	31-3	FMAC-0931-1610
16 (Pending)	High voltage filter	520	8.83	0.7	11.5	1.8kg	4	31-3	FMAC-0931-1612I
16 (10)	Excellent attenuation	-	8.83	1.3	11.5	2.8kg	4	32-3	FMAC-0932-1610
25 (15)	Excellent attenuation	-	8.25	8.4	4.4	3.4kg	6	32-7	FMAC-0932-2510
25 (14)	High attenuation	-	9.86	8.4	5.26	3.5kg	4	32-7	FMAC-0932-2510L
25 (Pending)	High voltage filter	520	8.25	8.6	4.4	3.35kg	6	32-7	FMAC-0932-2512I
36 (20)	High attenuation	-	10.55	8.4	2.71	3.75kg	6	32-C	FMAC-0932-3610L
36 (20)	Excellent attenuation	-	12.91	8.6	3.32	3.5kg	6	34-3	FMAC-0934-3610
36 (Pending)	High voltage filter	520	12.91	8.6	3.32	3.3kg	6	34-3	FMAC-0934-3612I
50 (32)	Excellent attenuation	-	9.75	9.0	1.3	3.4kg	6	34-3	FMAC-0934-5010
50 (30)	High attenuation	-	12.63	9.0	1.68	3.6kg	6	34-C	FMAC-0934-5010L
50 (Pending)	High voltage filter	520	9.75	9.0	1.3	3.35kg	6	34-3	FMAC-0934-5012I
64 (37)	High attenuation	-	18.23	8.6	1.48	4.2kg	6	34-C	FMAC-0934-6410L
80 (45)	Excellent attenuation	-	22.6	9.7	1.17	7kg	25	37-3	FMAC-0937-8010
80 (Pending)	High voltage filter	520	22.6	9.7	1.17	7.28kg	25	37-3	FMAC-0937-8012I
64 (37)	Excellent attenuation	480	13.52	9.0	1.1	3.9kg	25	53-3	FMAC-0953-6410
64 (Pending)	High voltage filter	520	13.52	9.0	1.1	3.8kg	25	53-3	FMAC-0953-6412I
110 (70)	Excellent attenuation	-	27.23	9.7	0.75	7.5kg	50	54-3	FMAC-0954-H110
110 (Pending)	High voltage filter	520	27.23	9.7	0.75	7.45kg	50	54-3	FMAC-0954-H112I
180 (Pending)	Excellent attenuation	-	36	9.7	0.37	22kg	95	55-3	FMAC-0955-H210
180 (Pending)	High voltage filter	520	36	9.7	0.37	23kg	95	55-3	FMAC-0955-H212I
250 (Pending)	Excellent attenuation	-	36	10.5	0.2	23.7kg	240	56-3	FMAC-0956-H310
250 (Pending)	High voltage filter	520	36	9.1	0.2	25kg	240	56-3	FMAC-0956-H312I
340 (Pending)	Excellent attenuation	-	45	10.5	0.13	27kg	240	56-3	FMAC-0956-H410
340 (Pending)	High voltage filter	520	45	5.6	0.13	30kg	240	56-3	FMAC-0956-H412I
450 (Pending)	Excellent attenuation	-	40	10.5	0.06	33kg	(B)	57	FMAC-0957-H550
550 (Pending)	Excellent attenuation	-	45	10.5	0.046	32kg	(B)	57	FMAC-0957-H650
1100 (Pending)	High voltage filter	520	80	9.5	0.022	47kg	(A)	74	FMAC-0974-K152I

Most Popular.

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

6A version: packing unit 2 pcs.

(A): Connecting straps for M12

(B): Connecting straps for M10

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