

1- stage filter for 3-phase systems

**Description**

- 3 phase line filter with standard attenuation
- Available as high voltage filter (up to 520 VAC)
- High symmetrical and asymmetrical attenuation
- In the frequency range from 10kHz up to 300MHz

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
- Qualified for use in equipment according IEC/EN 60950

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

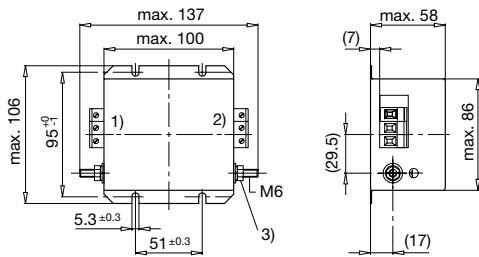
Technical Data

Rated Current	6 - 1100A
Rated voltage	480/520VAC, 50/60 Hz
Approval for	6 - 1100A @ Ta 40 (75) °C / 520VAC; 50Hz
Overload Current	1.5 x Ir
Leakage Current	industrial < 5 mA (440V / 50Hz)
Dielectric Strength	480VAC:
	2.25kVDC between L-L
	3kVDC between L-PE
	520VAC:
	2.25kVDC between L-L
	4kVDC between L-PE
	Test voltage (2 sec)
Number of Filter Stages	1-stage
Weight	0.9 - 47 kg
Material: Housing	Metal
Sealing Compound	UL 94V-0

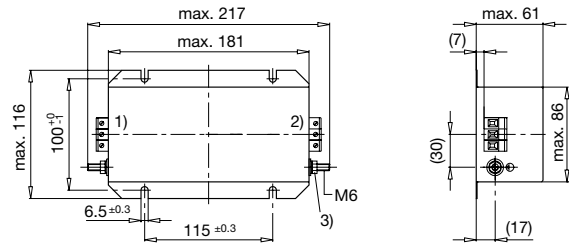
Mounting	Screw-on mounting on chassis from top
Terminal	Screw clamps
Operating Temperature [°C]	-25 °C to 100 °C
Climatic Category	25/100/21 acc. to IEC 60068-1
Degree of Protection	IP 20 acc. to IEC 60529
Protection Class	Suitable for appliances with protection class I acc. to IEC 61140
MTBF	> 200'000h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

Dimensions

Case 24-3

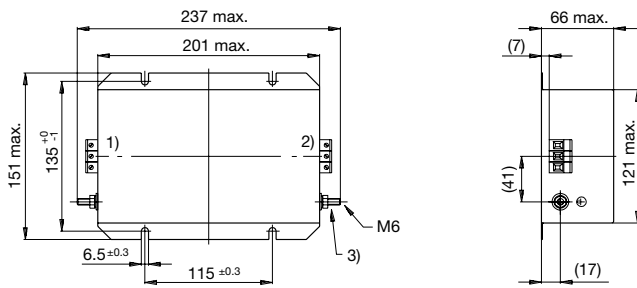


Case 31-3

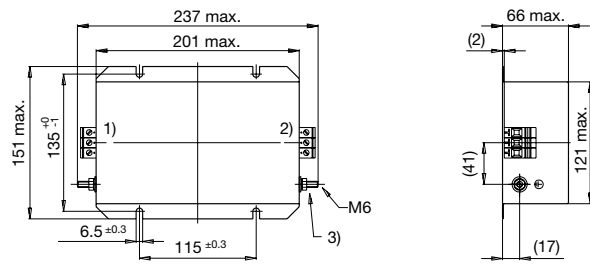


- 1) Line
- 2) Load
- 3) Nut torque 3...4 Nm

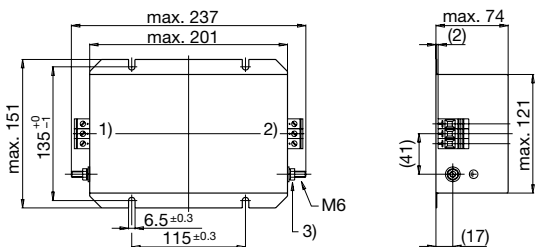
Case 32-3



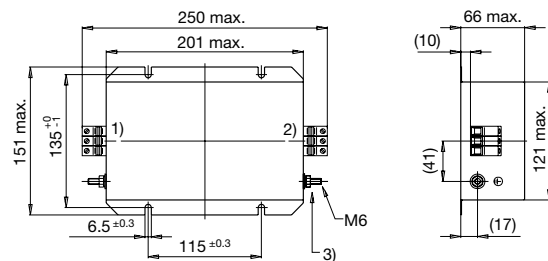
Case 32-7



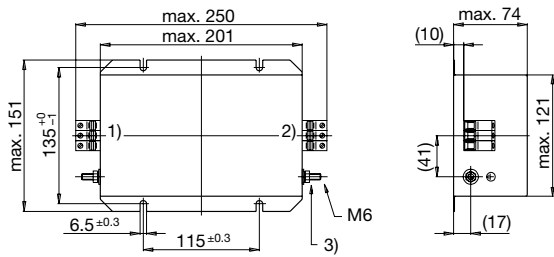
Case 32-C



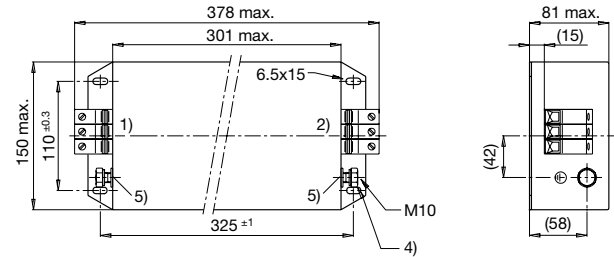
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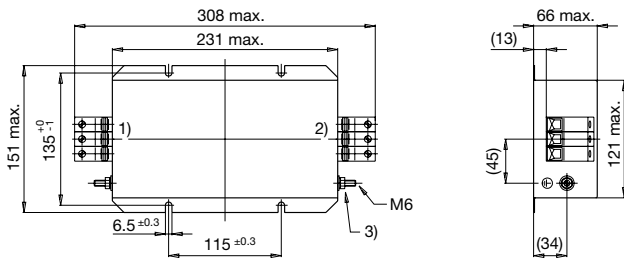
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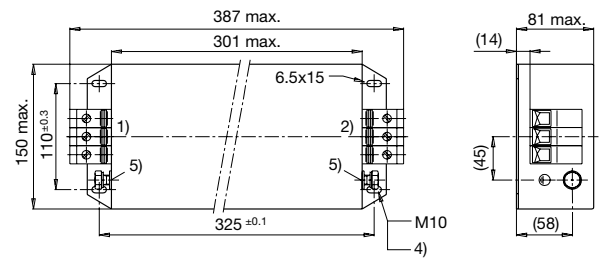
Case 37-3



Case 53-3

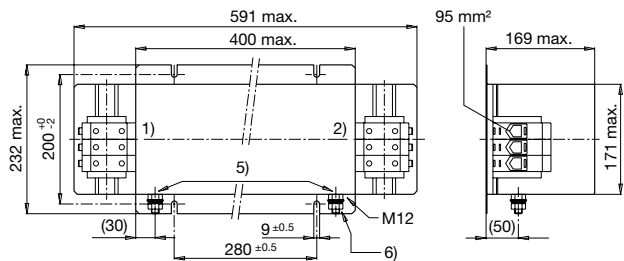


Case 54-3

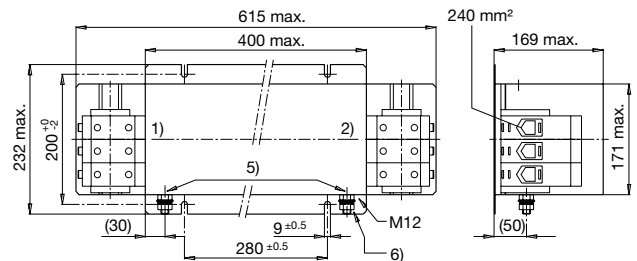


- 1) Line
- 2) Load
- 3) Tightening torque 3...4 Nm
- 4) Tightening torque 10...17 Nm
- 5) Do not unscrew lock-nut

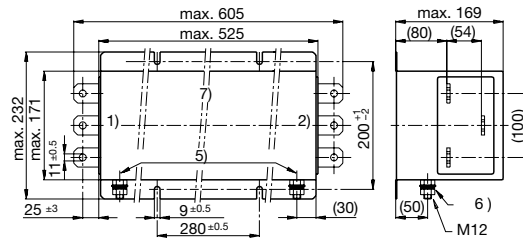
Case 55-3



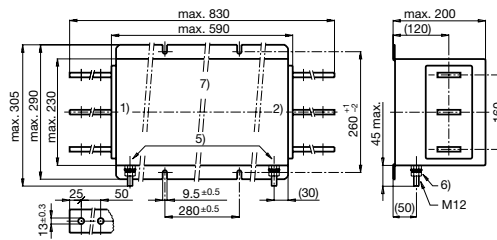
Case 56-3



Case 57



Case 74



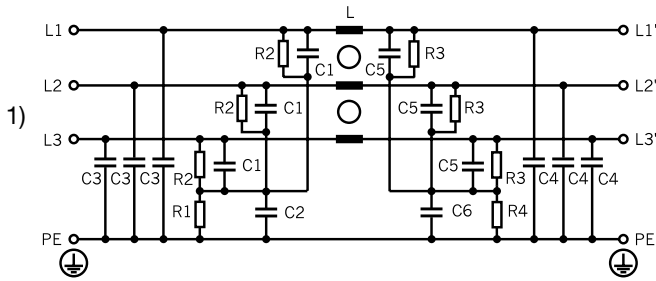
- 1) Line
- 2) Load
- 5) Do not unscrew lock-nut
- 6) Tightening torque 14...30 Nm
- 7) Current plates 720 mm² (60x12)

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	-	10	1.0	-	100	10	2.2	-	-	-	1	1
16 (10)	Excellent attenuation	-	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	-	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

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]
1100 (Pending)	High voltage filter	520	0.12	11	1.1	50	-	22	1.1	2	0.5	0.25	2

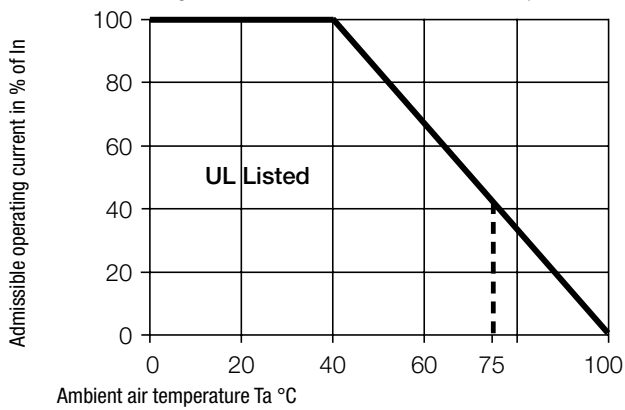
Diagrams



1) Power Line

Derating Curves

Permissible Working Current as a Function of Ambient Temperature

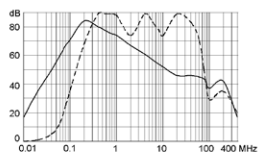


Attenuation Loss

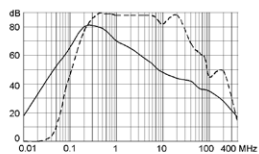
Industrial version

--- differential mode ____ common mode

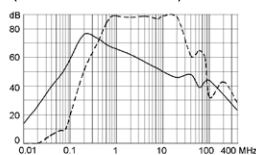
6A (FMAC-0924-0610)



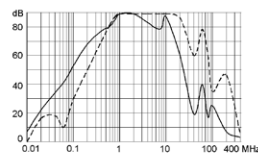
8A (FMAC-0931-0810)



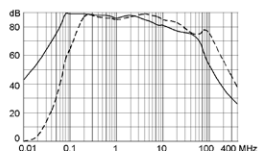
16A (FMAC-0931-1610)
16A (FMAC-0932-1610)



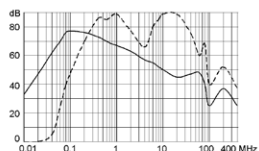
16A (FMAC-0931-1612I)



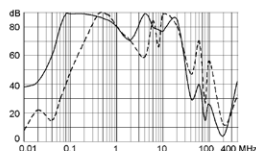
25A (FMAC-0932-2510)



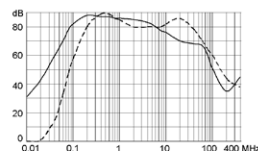
25A (FMAC-0932-2510L)



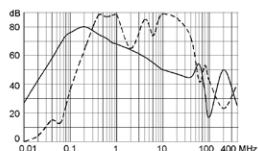
25A (FMAC-0932-2512I)



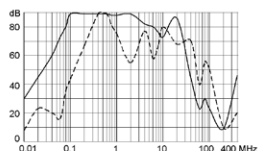
36A (FMAC-0934-3610)



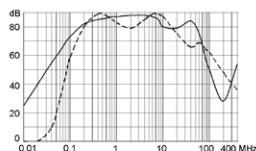
36A (FMAC-0932-3610L)



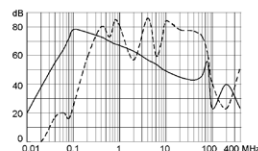
36A (FMAC-0932-3612I)



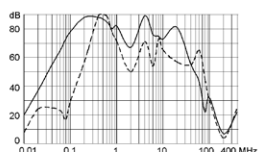
50A (FMAC-0934-5010)



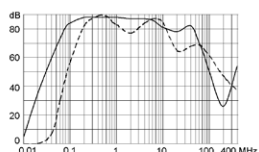
50A (FMAC-0934-5010L)



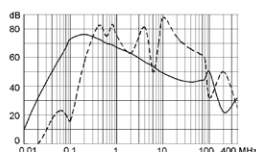
50A (FMAC-0934-5012I)



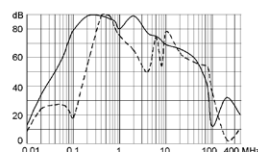
64A (FMAC-0953-6410)



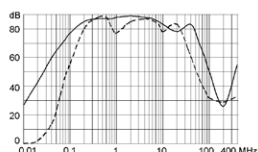
64A (FMAC-0934-6410L)



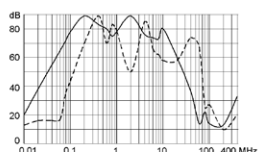
64A (FMAC-0953-6412I)



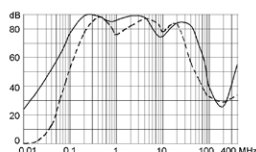
80A (FMAC-0937-8010)



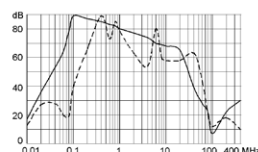
80A (FMAC-0937-8012I)



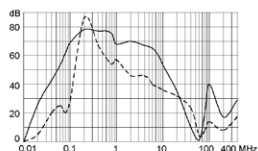
110A (FMAC-0954-H110)



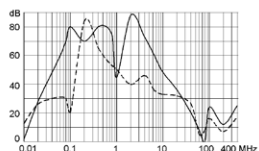
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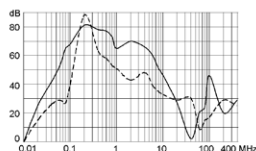
180A (FMAC-0955-H210)



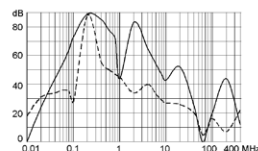
180A (FMAC-0955-H212I)



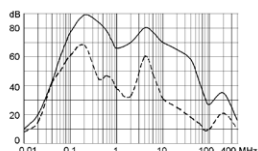
250A (FMAC-0956-H310)



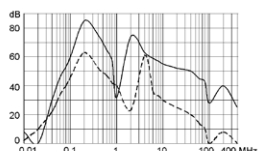
250A (FMAC-0956-H312I)



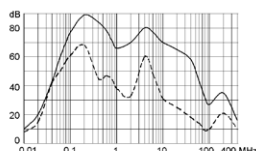
340A (FMAC-0956-H410)



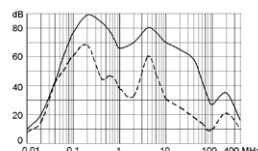
340A (FMAC-0956-H412I)



450A (FMAC-0957-H550)



550A (FMAC-0957-H650)



1100A (FMAC-0974-K152I)

