

Single-phase chassis-mounting filter FN 2310

- Current ratings from 3 to 10A
- High differential and common mode attenuation
- UL-rated materials
- Nennströme von 3 bis 10A
- Hohe Gleich- und Gegentaktdämpfung
- UL konformes Material
- Courants de service de 3 à 10A
- Bonne atténuation en modes différentiel et commun
- Matériaux UL



Filter selection table

Filter	Conn. / Housing		Current ratings @40°C (25°C) A	Inductance		Capacitance		Resistance R MΩ	Weight g
				L mH	L1 μH	Cx μF	Cy nF		
FN 2310X-3-06	Fast-on	K2	3 (3.35)	36.9		0.47	4	1	240
FN 2310X-6-06	Fast-on	K2	6 (6.7)	19.3		0.47	4	1	250
FN 2310X-10-06	Fast-on	P	10 (11.2)	9.6	75	1.5	4	1	470
FN 2310H-10-06	Fast-on	P	10 (11.2)	9.6	75	1.5	10	1	470

Approvals



Additional specifications

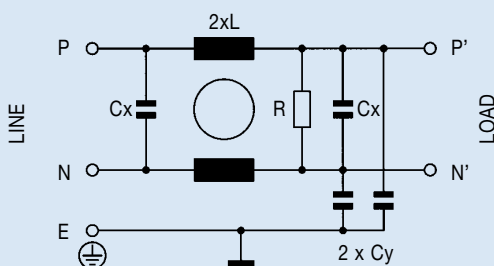
Filter type	Maximum operating voltage		Operating frequency Hz	Hipot test voltage		Maximum leakage @ 230VAC/50Hz mA	Temperature range
	VAC	Hz		PN→E VAC	P→N VDC		
All types	250	50/60	DC to 400	2000	1100	0.69*	-25°C - +100°C

MTBF at 40°C, 230V, per Mil-HB-217F: 1,700,000 hours.

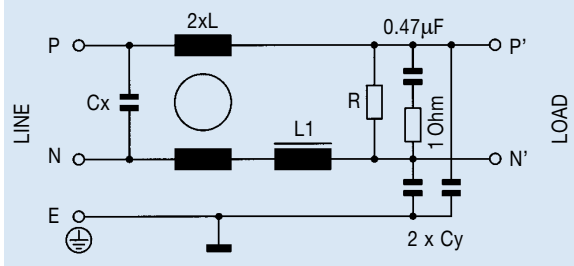
* 1.73mA for FN 2310H-10-06

Electrical schematics

FN 2310X-3-06 / FN2310X-6-06



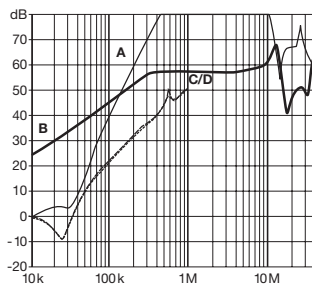
FN 2310X-10-06 / FN 2310H-10-06



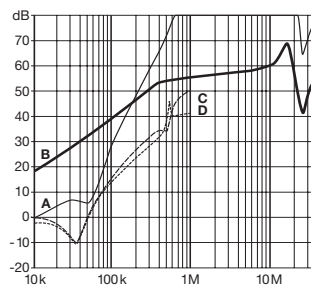
FN 2310 insertion loss

Per CISPR 17; A = 50Ω/50Ω sym, B = 50Ω/50Ω asym, C = 0.1Ω/100Ω sym, D = 100Ω/0.1Ω sym

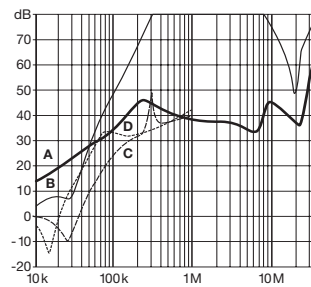
3 amp types



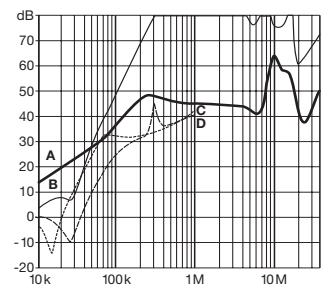
6 amp types



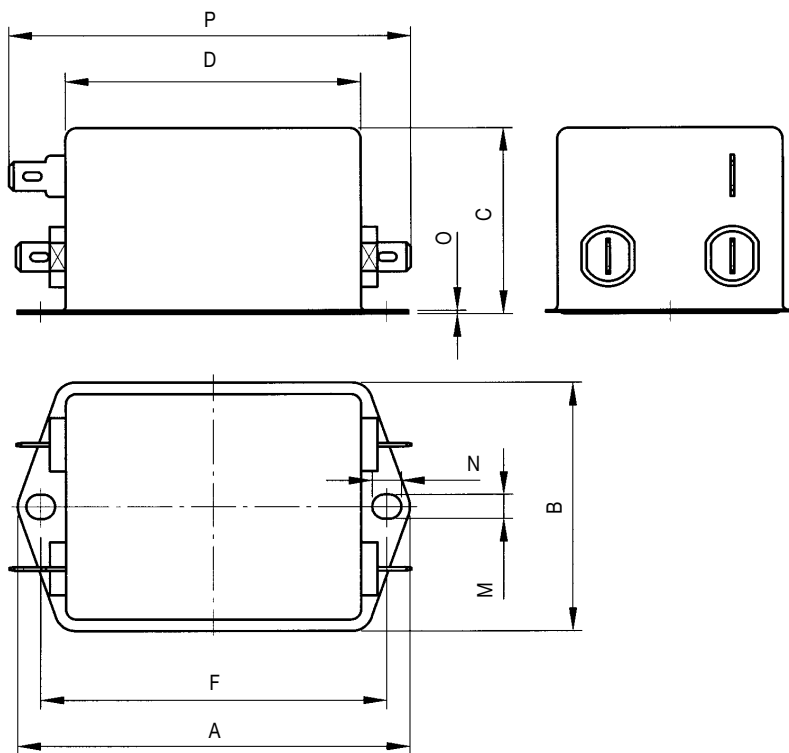
10 amp (X-types)



10 amp (H-types)



Mechanical data



	FN 2310X		FN 2310H		Tol.* [mm]
	3A	6A	10A	10A	
A	85		113.5 ± 1		± 0.5
B	54		57.5 ± 1		± 0.5
C	40.3		45.5 ± 1.2		± 0.5
D	64		94 ± 1		± 0.5
F	75		103.5		± 0.3
M	5.3		4.4		± 0.1
N	6.3		6		± 0.1
O	0.7		1		± 0.1
P	87		117		± 1

* Measurements share this common tolerance unless otherwise stated.

All dimensions in mm; 1 inch = 25.4mm.