

# 1-phase filters FN 2330

# **Performance EMI filter**





- Rated currents from 3 to 20A
- High differential and common-mode attenuation
- Compact housing
- UL-rated materials

# Approvals



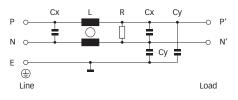




#### **Technical specifications**

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	3 to 20A @ 40°C max.
High potential test voltage:	P -> E 2000VAC for 2 sec
	P -> N 1100VDC for 2 sec
Temperature range (operation and storage):	-25°C to +100°C (25/100/21)
Flammability corresponding to:	UL 94V-2 or better
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230V (Mil-HB-217F):	1,400,000 hours

#### Typical electrical schematic



#### Features and benefits

- FN 2330 filters are designed for easy and fast chassis mounting.
- FN 2330 filters have a perfect performance/size ratio.
- All filters provide a high symmetrical and asymmetrical attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Multiple terminal connections with wire, faston or screw.
- Custom-specific versions on request.

# **Typical applications**

- Electrical and electronical equipment
- Consumer goods
- Power supplies
- Office automation equipment
- Datacom equipment

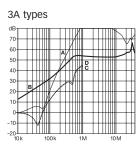
# Filter selection table

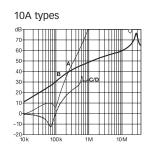
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 230VAC/50Hz	Indı L	uctance L1	Capa Cx	citance Cy	Resistance R		•	Output ections	Weight
	[A]	[mA]	[mH]	[µH]	[μ <b>F</b> ]	[nF]	[ <b>M</b> Ω]				[g]
FN 2330Y-3-07	3 (3.35)	0.95	7.3		0.33	5.5	1		-07		170
FN 2330Y-10-06	10 (11.2)	0.95	7.3		0.33	5.5	1	-06			420
FN 2330X-20-10	20 (22.4)	0.69	6		0.33	4	1			-10	500
FN 2330H-20-10	20 (22.4)	1.72	6		0.33	10	1			-10	500

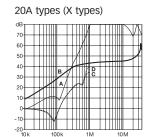
<sup>\*</sup> Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

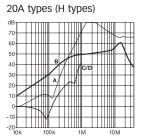
# Typical filter attenuation

Per CISPR 17; A =  $50\Omega/50\Omega$  sym; B =  $50\Omega/50\Omega$  asym; C =  $0.1\Omega/100\Omega$  sym; D =  $100\Omega/0.1\Omega$  sym



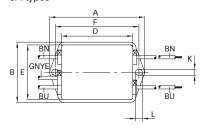


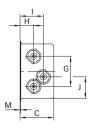


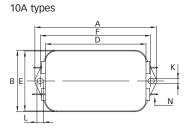


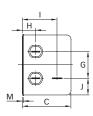
# Mechanical data

3A types

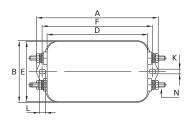


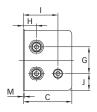






20A types





# Dimensions

	3A	10A	20A	Tolerances
	85	113.5 ±1	113.5 ±1	±0.5
1	54	57.5 ±1	57.5 ±1	±0.5
;	30.3	45.5 ±1	45.5 ±1	±0.5
)	64	94 ±1	94 ±1	±0.5
	49.8	56	56	±0.5
•	75	103.5	103.5	±0.3
ì	27	25	25	±0.2
l	12.3	12.4	12.4	±0.5
	20.8	32.4	32.4	±0.5
	19.9	15.5	15.5	±0.5
(	5.3	4.4	4.4	
	6.3	6	6	
VI	0.7	1	1	
N .		6.3 x 0.8		

AWG type wire AWG	
Wire length 100	+5
Connection style -10	
N	UNC 8-32

All dimensions in mm; 1 inch = 25.4mm Tolerances according: ISO 2768 / EN 22768