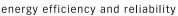


# 1-phase filters **FN 343**

# **Performance EMI filter**







- Rated currents from 1 to 10A
- Dual-stage filter
- Compact housing
- Integrated earth line choke

## **Approvals**





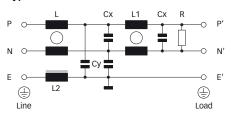




#### **Technical specifications**

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 40°C max.
High potential test voltage:	P -> E 2000VAC for 2 sec
	P -> N 760VAC 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):	970,000 hours

## Typical electrical schematic



## Features and benefits

- FN 345 filters are designed for easy and fast chassis mounting.
- Increased attenuation performance based on dual-stage filter design and earth line choke.
- All FN 345 single-phase filters provide an excellent attenuation performance, based on chokes with high saturation and excellent thermal behavior.
- Faston connection.
- Integrated earth line choke.
- Compact design.
- Custom-specific versions on request.

# **Typical applications**

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Power supplies
- Office automation equipment
- Datacom equipment
- Industrial equipment auxiliary supply

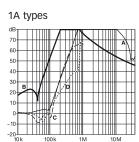
#### Filter selection table

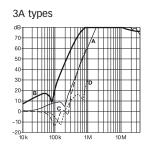
Filter	Rated current	Leakage current*		Ind	uctance	Capa	citance	Resistance	Input/Output	Weight
	@ 40°C (25°C)	@ 230VAC/50Hz	L	L1	L2	Сх	Су	R	connections	
	[A]	[µA]	[mH]	[mH]	[mH]	[nF]	[nF]	[ <b>M</b> Ω]	4	[g]
FN 343-1-05	1 (1.15)	340	5.6	10	0.4	100	2.2	1	-05	160
FN 343-3-05	3 (3.4)	340	1.1	2	0.4	100	2.2	1	-05	160
FN 343-6-05	6 (6.9)	340	0.43	0.77	0.4	100	2.2	1	-05	160
FN 343-10-05	10 (11.5)	340	0.27	0.66	0.4	100	2.2	1	-05	170

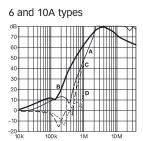
<sup>\*</sup> Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.

# Typical filter attenuation

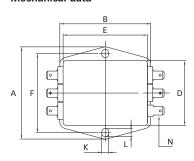
Per CISPR 17; A =  $50\Omega/50\Omega$  sym; B =  $50\Omega/50\Omega$  asym; C =  $0.1\Omega/100\Omega$  sym; D =  $100\Omega/0.1\Omega$  sym

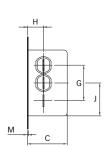






# Mechanical data





# Dimensions

	1 to 10A	Tolerances
A	70	±0.5
В	69	±0.5
С	30.3	±1
D	50	±1
E	64.8	±1
F	60	±0.2
G	27	±0.5
Н	12.3	±0.5
J	25	±0.5
K	5.3	
L	6.3	
M	0.7	
N	6.3 x 0.8	

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