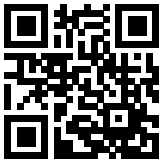


General Purpose AC/DC EMI Filter



- Rated currents from 1 to 60 A
- General purpose filtering performance
- Optional medical versions (B type)
- Optional safety versions (A type)
- Optional enhanced performance versions
- Optional DC optimized versions

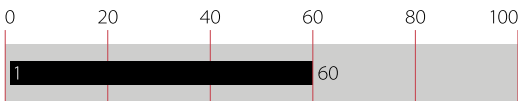


Performance indicators

Attenuation performance



Rated current [A]



Approvals & Compliances



Features and Benefits

- FN 2010 filters are designed for easy and fast chassis mounting
- FN 2010 B versions without capacitors to earth comply to 1MOP for ME (medical equipment) acc. IEC 60601-1
- FN 2010 A versions with low capacitance to earth for safety critical applications with necessity for low leakage currents
- FN 2010 filters are also available as enhanced performance and DC optimized versions. With higher attenuation in very compact housing (M, N1,N types)
- All filters provide a general purpose conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- FN 2010 filters can be used to cover a broad range of usage and they offer a good size/amperage ratio
- Various terminal options allow you to select the desired connection style

Family Technical Specifications

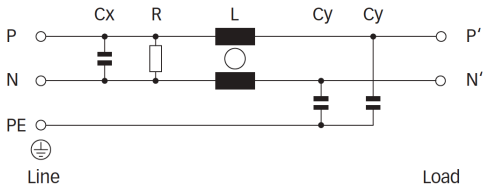
Maximum continuous operating voltage	250 VAC, 50/60 Hz 250 VDC
Nominal operating voltage	230 VAC
High potential test voltage	P -> N 1100 VDC for 2 sec P -> PE 2000 VAC for 2 sec (equiv. cap <88 nF) P -> PE 2550 VDC for 2 sec (equiv. cap >88 nF) P -> PE 2500 VAC for 2 sec (B types)
Rated currents	1 to 60 A @ 40°C
Overvoltage category	II acc. IEC 60664-1
Pollution degree	2 acc. IEC 60664-1
Temperature range (operation and storage)	-25 °C to +100 °C (25/100/21)**
Altitude	2000m (above derating applies)**
Flammability corresponding to	Laces for -07 version: UL 94 VW-1 Terminal plastic for -06/-08 version: UL 94 V-0 Grommet for -07 version: UL 94 V-0
Certified to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939 (applies to AC and DC applications)
MTBF (Mil-HB-217F)	>1,250,000 h @ 40°C/230 V 3,200,000 h (B types) @ 40°C/230 V
Operating frequency	DC to 400 Hz

* maximum RMS operating voltage at rated frequency or the maximum DC operating voltage ** for dedicated requests exceeding this specification (e.g. -40 °C or higher altitude) please contact your local Schaffner sales office












































































Typical Applications

- Electrical and electronic equipment
- Consumer goods
- Household equipment
- Medical equipment
- Office automation equipment
- Datacom equipment












































































Typical electrical schematic




















Articles

	Article	Rated Current @ambient (A)	Leakage current IEC60939 (A)	Inductance	Capacitance		Resistance (kΩ)	Input/Output connections (Nm)		Dist. stock	Read More
				L1	Cx1 (µF)	Cy1 (µF)		Input terminal	Output terminal		
	FN2010-10-06	10	0.66	0.8	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-16-08	16	0.66	0.7	0.1	4.7	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010-20-06	20	0.66	0.6	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-20-07	20	0.66	0.6	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010-20-08	20	0.66	0.6	0.1	4.7	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010-30-08	30	0.79	0.7	0.47	10	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010-3-06	3	0.66	2.5	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-3-07	3	0.66	2.5	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010-60-24	60	0.79	1	1.5	10	330	24 - M6 screw terminal	24 - M6 screw terminal		
	FN2010-6-06	6	0.66	1	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-6-07	6	0.66	1	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010-10-07	10	0.66	0.8	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010A-10-06	10	0.07	0.8	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-10-07	10	0.07	0.8	0.1	0.47	1000	07 - wire	07 - wire		
	FN2010A-1-06	1	0.07	12	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-1-07	1		12	0.1	0.47	1000	07 - wire	07 - wire		
	FN2010A-12-06	12	0.07	0.7	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-16-06	16	0.07	0.7	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-20-06	20	0.07	0.6	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-20-08	20	0.07	0.6	0.1	0.47	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010A-30-08	30	0.07	0.7	0.47	0.47	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010A-3-06	3	0.07	2.5	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-1-06	1	0.66	12	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010A-3-07	3	0.07	0.8	0.1	0.47	1000	07 - wire	07 - wire		
	FN2010A-6-06	6	0.07	1	0.1	0.47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		

Articles

	Article	Rated Current @ambient (A)	Leakage current IEC60939 (A)	Inductance	Capacitance		Resistance (kΩ)	Input/Output connections (Nm)		Dist. stock	Read More
				L1	Cx1 (μF)	Cy1 (μF)		Input terminal	Output terminal		
	FN2010A-6-07	6	0.07	1	0.1	0.47	1000	07 - wire	07 - wire		
	FN2010B-10-06	10	0	0.8	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-1-06	1	0	12	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-1-07	1		12	0.1	0	1000	07 - wire	07 - wire		
	FN2010B-16-06	16	0	0.7	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-20-06	20	0	0.6	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-20-08	20	0	0.6	0.1	0	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010B-30-08	30	0	0.7	0.47	0	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010-1-07	1	0.66	12	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010B-3-06	3	0	2.5	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-3-07	3	0	2.5	0.1	0	1000	07 - wire	07 - wire		
	FN2010B-60-24	60	0	1	1.5	0	330	24 - M6 screw terminal	24 - M6 screw terminal		
	FN2010B-6-06	6	0	1	0.1	0	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010B-6-07	6	0	1	0.1	0	1000	07 - wire	07 - wire		
	FN2010M-16-06	16	3.4	0.7	0.1	47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010M-16-08	16	3.4	0.7	0.1	47	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010M-20-06	20	3.4	0.6	0.1	47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010M-20-08	20	3.4	0.6	0.1	47	1000	08 - M4 screw terminal	08 - M4 screw terminal		
	FN2010N1-10-06	10	4.91	0.8	0.1	68	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-12-06	12	0.66	0.7	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010N1-1-06	1	4.91	12	0.1	68	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010N1-12-06	12	4.91	0.7	0.1	47	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010N1-3-06	3	4.91	2.5	0.1	68	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010N1-6-06	6	4.91	1	0.1	68	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010N-30-08	30	7.23	0.7	0.47	100	1000	08 - M4 screw terminal	08 - M4 screw terminal		

Articles

	Article	Rated Current @ambient (A)	Leakage current IEC60939 (A)	Inductance	Capacitance		Resistance (kΩ)	Input/Output connections (Nm)		Dist. stock	Read More
				L1	Cx1 (µF)	Cy1 (µF)		Input terminal	Output terminal		
	FN2010N-60-24	60	7.23	1	1.5	100	330	24 - M6 screw terminal	24 - M6 screw terminal		
	FN2010Z-6-06	10	0.66	0.8	0.1	68	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-12-07	12	0.66	0.7	0.1	4.7	1000	07 - wire	07 - wire		
	FN2010-16-05	16	0.66	0.7	0.1	4.7	1000	05 - faston 6.3x0.8	05 - faston 6.3x0.8		
	FN2010-16-06	16	0.66	0.7	0.1	4.7	1000	06 - faston 6.3x0.8/sold lug	06 - faston 6.3x0.8/sold lug		
	FN2010-16-07	16	0.66	0.7	0.1	4.7	1000	07 - wire	07 - wire		

Headquarters, Global
Innovation and
Development

Switzerland
Schaffner Group
Industrie Nord
Nordstrasse 11e
4542
Luterbach
+41 32 681 66 26
info@schaffner.com

Sales and Application
Centers

Finland
Schaffner Oy
Lohjanharjuntie 1109
08500
Lohja
+ 358 50 468 72 84
finlandsales@schaffner.com

France
Schaffner EMC S.A.S.
16-20 Rue Louis Rameau
95875
Bezons
+33 1 34 34 30 60
francesales@schaffner.com

Germany
Schaffner Deutschland GmbH
Ohiostr. 8
76149
Karlsruhe
+49 721 56910
germanysales@schaffner.com

Italy
Schaffner EMC S.r.l.
Via Ticino, 30
20900
Monza (MB)
+39 039 21 41 070
italysales@schaffner.com

Japan
Schaffner EMC K.K.
ISM Sangenjaya 7F
1-32-12 Kamiyuma Setagaya-ku
154-0011
Tokyo
+81 3 5712 3650
japansales@schaffner.com

Singapore
Schaffner EMC Pte Ltd.
Blk 3015A Ubi Road 1 #05-09 Kampong Ubi
Industrial Estate
408705
Singapore
+65 63773283
singaporesales@schaffner.com

Sweden
Schaffner EMC AB
Östermalmstrorg 1
114 42
Stockholm
+46 8 5050 2425
swedensales@schaffner.com

Switzerland
Schaffner EMV AG
Industrie Nord
Nordstrasse 11e
4542
Luterbach
+41 32 681 66 26
switzerlandsales@schaffner.com

India
Schaffner India Pvt. Ltd
Regus World Trade Centre
WTC 22nd Floor Unit No 2238 Brigade
Gateway Campus 26/1 Dr. Rajkumar Road
Malleshwaram (W)
560055
Bangalore
+91 8067935355
indiasales@schaffner.com

United Kingdom
Schaffner Ltd.
Suite 1 Oakmede Place
Terrace Road
RG42 4JF
Binfield
+44 118 9770070
uksales@schaffner.com

United States
Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey
+1 732 225 9533
usasales@schaffner.com

To find your local partner within
Schaffner's global network [schaffner.com](https://www.schaffner.com)

© 2024 Schaffner Group The content of
this document has been carefully checked
and understood. However, neither
Schaffner nor its subsidiaries assume any
liability whatsoever for any errors or
inaccuracies of this document and the
consequences thereof. Published
specifica-tions are subject to change
without notice. Product suitability for any
area of application must ultimately be
determined by the customer. In all cases,
products must never be operated outside
their published specifications. Schaffner
does not guarantee the availability of all
published products. This disclaimer shall
be governed by substantive Swiss law and
resulting disputes shall be settled by the
courts at the place of business of Schaffner
Holding AG. Latest publications and a
complete disclaimer can be downloa-ded
from the Schaffner website. All trademarks
recognized.