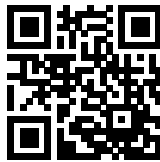


General Purpose EMC Filter

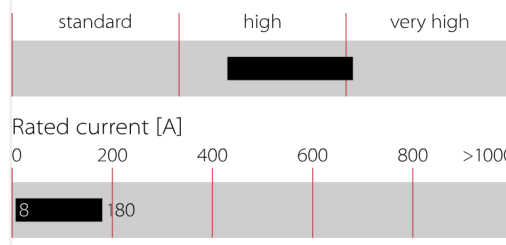


- EMC solution for industrial inverters and motor drives
- Rated currents from 8 to 180 A
- Voltage level up to 520 V
- High differential and common-mode attenuation



Performance indicators

Attenuation performance



Technical Specifications

Maximum continuous operating voltage	3x520/300 VAC
Nominal operating voltage	480 VAC
Rated currents	8 to 180 A @ 40°C
Overload capability	4x rated current at switch on, 1.5x rated current for 1 minute, once per hour
Operating frequency	DC to 60 Hz
High potential test voltage	P → P 2250 VDC for 2 sec P → E 2750 VDC for 2 sec
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Protection category	IP 20
Flammability corresponding to	UL 94 V-0
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF (Mil-HB-217F)	>135,000 h @ 40°C/480 V

Approvals & Compliances



Approvals up to 110 A

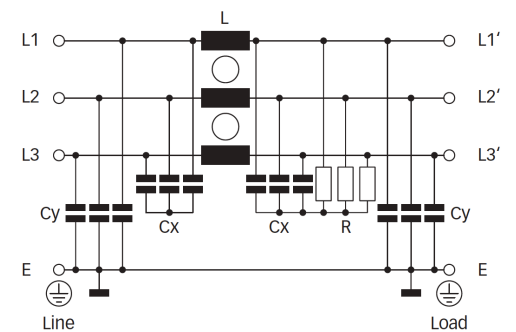
Features and Benefits

- Broad range of power ratings for fast and convenient filter selection
- FN351H filters provide a broadband common and differential-mode attenuation performance, which remains available also when high interference levels are present
- Solid, touch-safe filter terminals contribute to overall equipment safety
- Introduced as one of the very first motor drive EMC filters in the market, FN351H and its predecessor FN351 have been widely imitated and has successfully proven its function over more than 10 years


Typical Applications

- Three-phase motor drives
- Inverters and converters
- Industrial automation equipment
- UPS
- SMPS
- General purpose three-phase filtering

Typical electrical schematic



Filter Selection Table

Filter*	Rated current @ 40°C (25°C)	Typical drive power rating**	Leakage current*** @ 440/520 VAC/50 Hz	Power loss @ 25°C/50 Hz	Input/Output connections	Weight
	[A]	[kW]	[mA]	[W]		[kg]
FN351H-8-29	8 (9.2)	4	0.3	7	-29	1.1
FN351H-16-29	16 (18.5)	7.5	0.3	8	-29	1.3
FN351H-25-33	25 (28.9)	15	3.8	8	-33	1.4
FN351H-36-33	36 (41.6)	18.5	3.8	9	-33	1.5
FN351H-50-33	50 (57.7)	30	3.8	11	-33	1.6
FN351H-64-33	64 (73.9)	37	3.8	15	-33	1.7
FN351H-80-34	80 (92.3)	45	4.4	23	-34	5.6
FN351H-110-35	110 (127)	75	4.4	25	-35	5.8
FN351H-180-36	180 (208)	110	4.4	49	-36	13.0

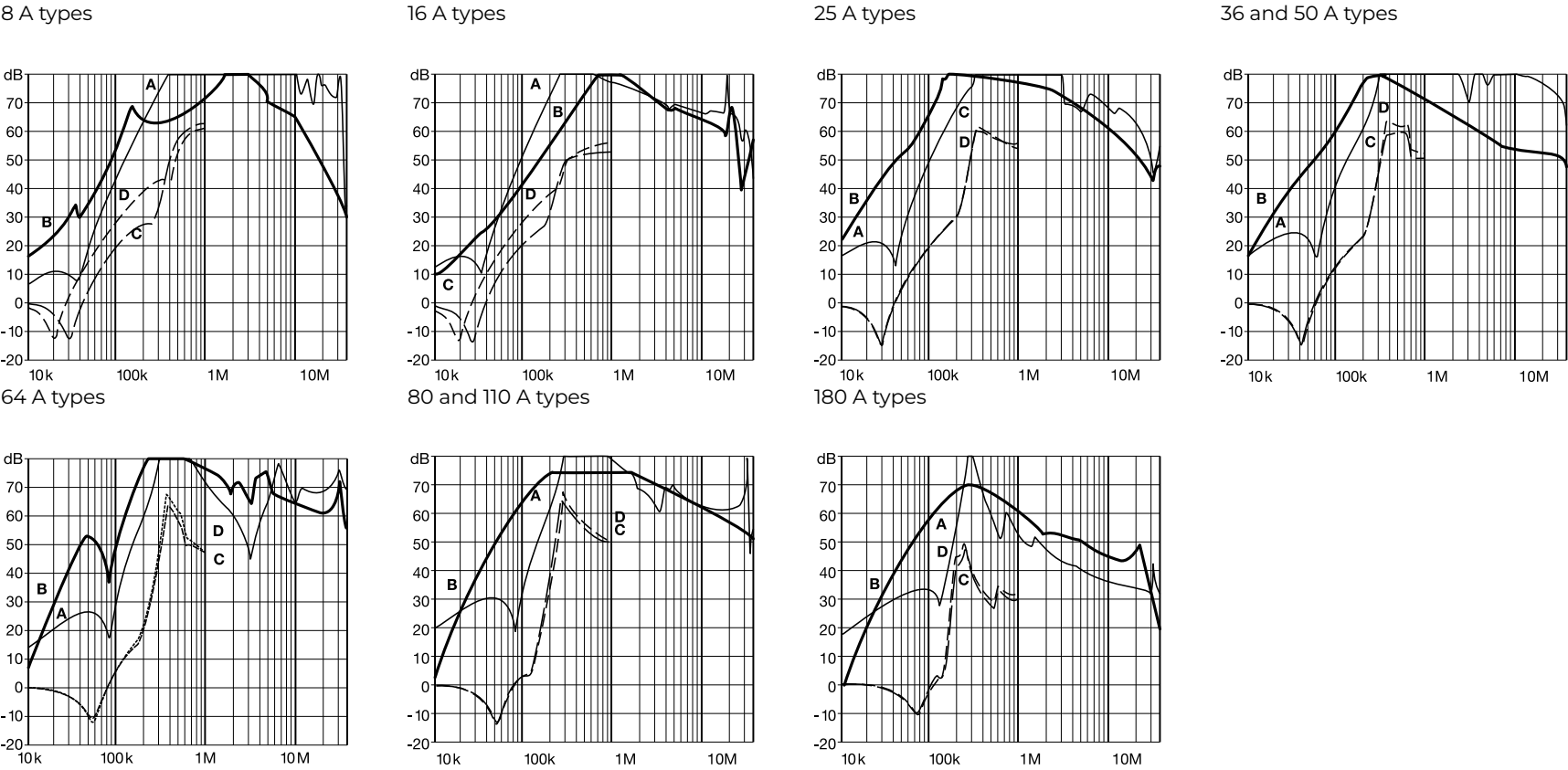
* To compile a complete part number, please replace the -.. with the required I/O connection style.

** Calculated at rated current, 480 VAC and cos phi=0.8. The exact value depends upon the efficiency of the drive, the motor and the entire application.

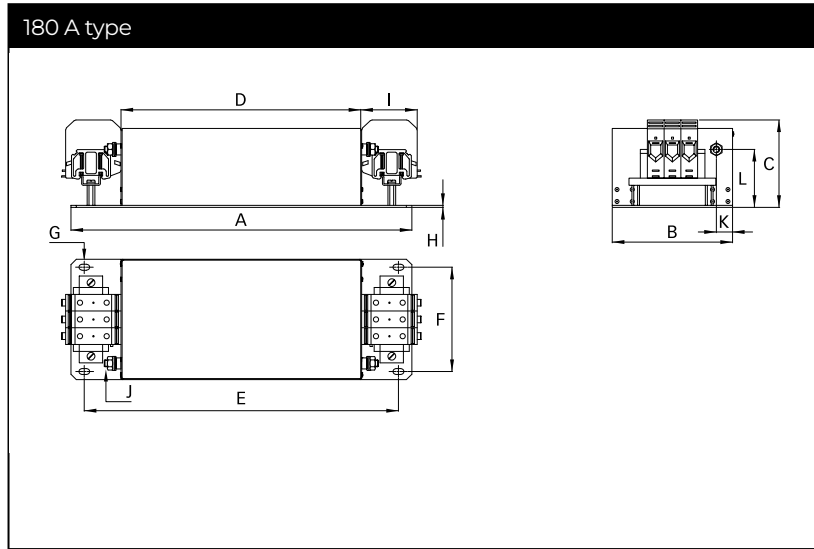
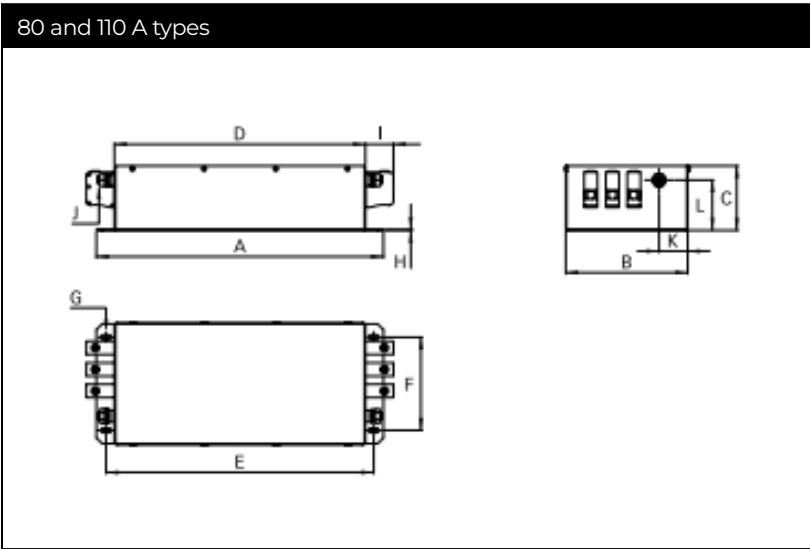
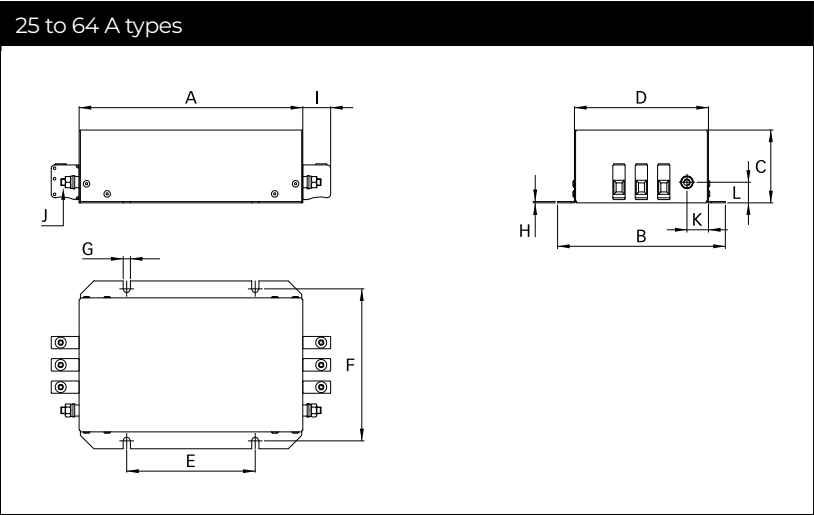
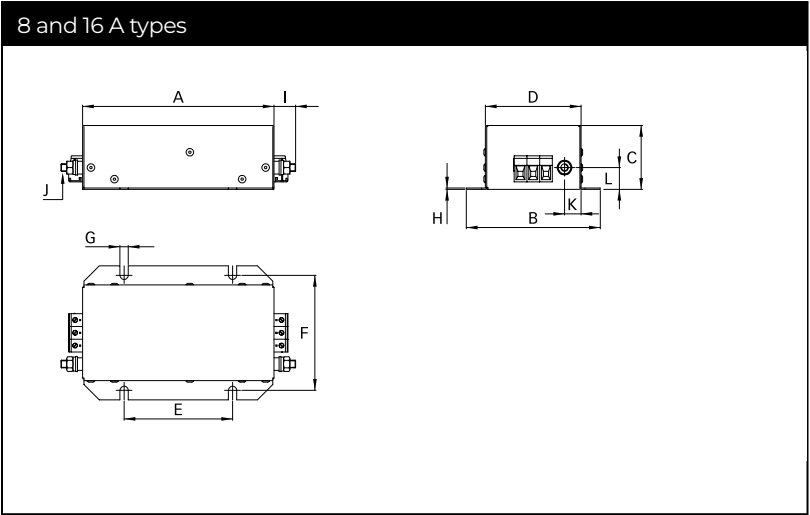
*** Standardized calculated leakage current acc. IEC60939 under normal operating conditions at 520 VAC.

Typical Filter Attenuation

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



Mechanical Data








Dimensions

	8 A	16 A	25 A	36 A	50 A (-33)	50 A (-34)	64 A (-33)	64 A (-34)	80 A	110 A	180 A
A	200	200	200	200	200	200	200	200	400	400	510
B	150	150	150	150	150	150	150	150	170	170	180
C	65	65	65	65	65	65	65	80	90	90	133
D	120	120	120	120	120	120	120	120	350	350	360
E	115	115	115	115	115	115	115	115	373	373	470
F	136	136	136	136	136	136	136	136	130	130	156
G	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	15 x 6.5	15 x 6.5	16 x 9
H	1	1	1	1	1	1	1	1	1	1	4
I	17	17	25	25	25	39	25	39	39	45	83
J	M6	M6	M6	M6	M6	M6	M6	M6	M10	M10	M10
K	19.25	19.25	19.25	19.25	19.25	18.75	19.25	18.75	40	40	25
L	17	17	18.4	18.4	18.4	17	18.4	17	70	70	85

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

Filter Input/Output Connector Cross Sections

	-29	-33	-34	-35	-36
					
Solid wire	6 mm ²	16 mm ²	35 mm ²	50 mm ²	95 mm ²
Flex wire	4 mm ²	10 mm ²	25 mm ²	50 mm ²	95 mm ²
AWG type wire	AWG 10	AWG 6	AWG 2	AWG 1/0	AWG 4/0
Recommended torque	0.6-0.8 Nm	1.5-1.8 Nm	4.0-4.5 Nm	7-8 Nm	17-20 Nm

Please visit www.schaffner.com to find more details on filter connectors.

Headquarters, Global
Innovation and
Development

Switzerland
Schaffner Group
Industrie Nord
Nordstrasse 5
4542
Luterbach
+41 32 681 66 26
info@schaffner.com

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

© 2025 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 specifications 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 downloaded from the Schaffner website. All trademarks recognized.

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)
+39 335 120 44 32
italysales@schaffner.com

Japan
Schaffner EMC K.K.
ISM Sangenjaya 7F
1-32-12 Kamiuma 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
Östermalmströg 1
114 42
Stockholm
+46 8 5050 2425
swedensales@schaffner.com

Switzerland
Schaffner EMV AG
Industrie Nord
Nordstrasse 5
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
schaffner.uksales@te.com

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Schaffner:](#)

[FN351-8-29](#) [FN351-50-33](#) [FN351-36-33](#) [FN351H-36-33](#) [FN351-25-33](#) [FN351-16-29](#) [FN351-64-33](#) [FN351H-50-33](#)
[FN351-64-34](#) [FN351-80-34](#) [FN351-110-35](#) [FN351H-25-33](#) [FN351H-8-29](#) [FN351H-180-36](#) [FN351H-110-35](#)
[FN351H-16-29](#) [FN351-25-46](#) [FN351-36-47](#) [FN351-180-36](#) [FN351-280-37](#) [FN351H-64-33](#) [FN351H-80-34](#)