

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







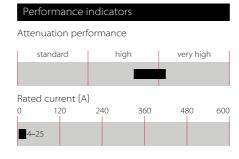


Compact Three-phase and Neutral Line Filter for High Frequency Attenuation



- Compact four-wire filter for applications with limited space
- High attenuation performance up to 300 MHz
- Equally suitable for star and delta power networks





Technical specifications

Maximum continuous operating voltage	3x 440/250 VAC
Operating frequency	DC to 60 Hz
Rated currents	4 to 25 A @ 40°C max.
High potential test voltage	P/N -> E 2000 VAC for 2 sec P -> P 1900 VDC for 2 sec P -> N 1100 VDC for 2 sec
Protection category	IP 20 (version with -47 connections)
Overload capability	4x rated current at switch on, 1.5x rated current for 1 minute, once per hour
Temperature range (operation and storage)	-25°C to +100°C (25/100/21)
Flammability corresponding to	UL 94 V-2 or better
Design corresponding to	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
MTBF @ 40°C/230 V (Mil-HB-217F)	500,000 hours

Approvals







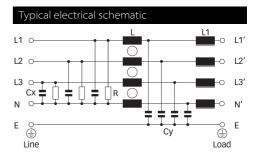


Features and benefits

- The FN 354 family of filters is intended primarily for applications that require extremely effective interference suppression across a broad frequency spectrum.
- Advanced two-stage filter circuits with highly saturating resistant toroidal inductors, in conjunction with feedthrough capacitors on each of the three phases and the neutral line, ensure that these filters provide very high attenuation in the upper frequency band.
- FN 354 are equally suitable for the operation on star and delta power networks.

Typical applications

- Applications requiring high-frequency attenuation
- Power supplies
- Medical equipment
- I Office and data processing equipment



Filter selection table

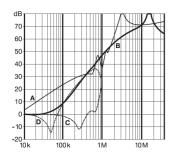
Filter	Rated current @ 40°C (25°C)	Leakage current* @ 440 VAC/50 Hz	Power loss @ 25°C/50 Hz		Input/Output connections	Weight
	[A]	[mA]	[w]			[kg]
FN 354-4-05	4 (4.5)	0.1	2.0	-05		0.23
FN 354-6-05	6 (6.7)	0.1	3.9	-05		0.38
FN 354-12-05	12 (13.4)	0.1	7.8	-05		1.1
FN 354-15-47	15 (16.8)	0.1	10.8		-47	4.3
FN 354-25-47	25 (28)	0.2	16.9		-47	4.4

 $^{{}^*\, {\}sf Standardized} \ {\sf calculated} \ {\sf leakage} \ {\sf current} \ {\sf acc.} \ {\sf IEC60939} \ {\sf under} \ {\sf normal} \ {\sf operating} \ {\sf conditions}.$

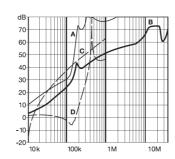
Typical filter attenuation

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

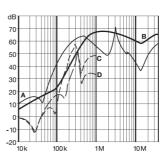




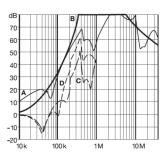
12 A types



15 A types

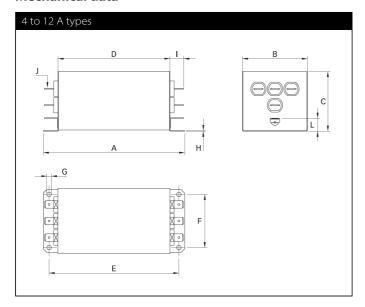


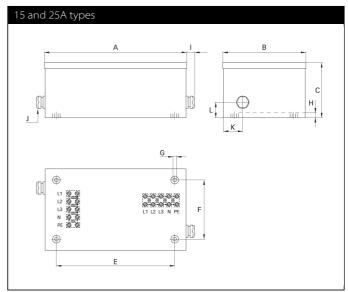
25 A types



3 EMC/EMI Products Datasheets 2018

Mechanical data





Dimensions

	4 A	6 A	12 A	15 A	2 5A
Α	103	120	150	273.6	273.6
В	43	55	65	158.6	158.6
c	40.5	50.5	60	107	107
D	80	95	125		
E	95	110	140	230	230
F	35	45	55	115	115
G	Ø3.8	Ø3.8	7.5 x 4.4	M8	M8
Н	0.5	0.5	0.75	9.5	9.5
1	11.1	11.1	11.1	~20	~20
J	Faston 6.3 x 0.8	Faston 6.3 × 0.8	Faston 6.3 x 0.8	PG13	PG13
K				35.5	35.5
L	7	11	11	30	30

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

Filter input/output connector cross sections

	-05	-47
		<u>alala</u>
Solid wire	n/a	16 mm2
Flex wire	n/a	10 mm2
AWG type wire	n/a	AWG 8
Recommended torque	n/a	1.9-2.2 Nm

Please visit <u>www.schaffner.com</u> to find more details on filter connectors.



Headquarters, global innovation and development

Switzerland

Schaffner Group

Nordstrasse 11 4542 Luterbach T+41 32 681 66 26 info@schaffner.com www.schaffner.com

To find your local partner within Schaffner's global network: www.schaffner.com

© 2018 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

China

Schaffner EMC Ltd. Shanghai

T20-3 C, No 565 Chuangye Road, Pudong district 201201 Shanghai T +86 21 3813 9500 cschina@schaffner.com www.schaffner.com.cn

Finland

Schaffner Oy

Sauvonrinne 19 H 08500 Lohja T+358 50 468 7284 finlandsales@schaffner.com

France

Schaffner EMC S.A.S.

16-20 Rue Louis Rameau 95875 Bezons T +33 1 34 34 30 60 F +33 1 39 47 02 28 francesales@schaffner.com

Germany

Schaffner Deutschland GmbH

Schoemperlenstrasse 12B 76185 Karlsruhe T +49 721 56910 F +49 721 569110 germanysales@schaffner.com

India

Schaffner India Pvt. Ltd

Unit 59, Level, Mfar Greenheart 7 Manyata Tech Park, Hebbal Outer Ring Road 560045 Bangalore T+91 80 6781 9805 F+91 80 6781 9998 indiasales@schaffner.com

Italy

Schaffner EMC S.r.l.

Via Ticino, 30 20900 Monza (MB) T+39 039 21 41 070 italysales@schaffner.com

Japan

Schaffner EMC K.K.

1-32-12, Kamiuma, Setagaya-ku 7F Mitsui-seimei Sangenjaya Bldg. 154-0011 Tokyo T +81 3 5712 3650 F +81 3 5712 3651 japansales@schaffner.com www.schaffner.jp

Singapore

Schaffner EMC Pte Ltd.

#05-09, Kg Ubi Ind. Estate 408705 Singapore T +65 6377 3283 F +65 6377 3281 singaporesales@schaffner.com

Spain

Schaffner EMC España

Calle Caléndula 93, Miniparc III, Edificio E El Soto de Moraleja, Alcobendas 28109 Madrid T+34 917 912 900 F+34 917 912 901 spainsales@schaffner.com

Sweden

Schaffner EMC AB

Tegeluddsvägen 76, 2tr 115 28 Stockholm T +46 8 5050 2425 swedensales@schaffner.com www.schaffner.com

Switzerland

Schaffner EMV AG

Nordstrasse 11 4542 Luterbach T+41 32 681 66 26 switzerlandsales@schaffner.com

Taiwan R.O.C.

Schaffner EMV Ltd.

20 Floor-2, No 97, Section 1, XinTai 5th Road 22175 XiZhi District New Taipei City 22175 T +886 2 2697 5500 F +886 2 2697 5533 taiwansales@schaffner.com www.schaffner.com.tw

Thailand

Schaffner EMC Co. Ltd.

Northern Region Industrial Estate 67 Moo 4 Tambon Ban Klang Amphur Muangg P.O. Box 14 51000 Lamphun T +66 53 58 11 04 F +66 53 58 10 19 thailandsales@schaffner.com

United Kingdom

Schaffner Ltd.

5 Ashville Way, Molly Millars Lane Wokingham RG41 2PL Berkshire T +44 118 9770070 F +44 118 9792969 uksales@schaffner.com

USA

Schaffner EMC Inc. 52 Mayfield Avenue

08837 Edison, New Jersey T+1 800 367 5566 T+1 732 225 9533 F+1 732 225 4789 usasales@schaffner.com

Schaffner North America

6722 Thirlane Road 24019 Roanoke, Virginia T +1 276 228 7943 F +1 276 228 7953

Schaffner North America

823 Fairview Road 24382 Wytheville, Virginia T +1 276 228 7943 F +1 276 228 7258