

Compact Filtered Power Entry Module



- Compact size
- Rated currents up to 10A
- Complies with IEC/EN 60601
- High quality 2-pole rocker switch
- Good attenuation performance

Approvals



ROHS

Typical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	50 to 400Hz
Rated currents:	1 to 10A @ 40°C max.
High potential test voltage for capacitors:	P → PE 2000VAC for 2 sec (Standard) P → PE 2500VAC for 2 sec (B-types) P → N 760VAC for 2 sec
Protection category:	IP40 according to IEC 60529
Temperature range (operation and storage):	-25°C to +85°C (25/85/21)
Design corresponding to:	UL 1283, CSA 22.2 No. 8 1986, IEC/EN 60939
Flammability corresponding to:	UL 94V-2 or better
MTBF @ 40°C/230V (Mil-HB-217F):	≥ 616,000 hours
Rocker switch description:	
Function:	2-pole, dark not illuminated Marking I - 0
Electrical specifications:	
Inrush current	100A
	10,000 on-off operations according to UL 1054, TV 5
Switch ratings:	
USA (UL):	10A, 125VAC 1HP; 250VAC 2HP;
Canada (CSA):	10A, 125VAC 1HP; 250VAC 2HP;
Europe (ENEC):	10A (4A), 250VAC*

* Value in () relates to the inductive current charge: $\cos \gamma = 0.65$

Features and benefits

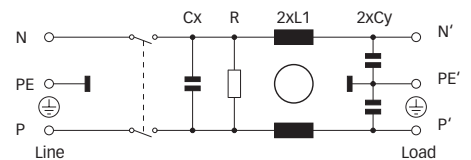
- Excellent conducted attenuation performance, based on chokes with high saturation resistance and good thermal behavior
- High quality 2-pole rocker switch for all-pole disconnection
- Faston terminals for easy assembly
- Medical version (B Type) according IEC/EN60601-1

Typical applications

- Portable electrical and electronic equipment
- EDP and office equipment
- Single-phase power supplies
- Switch-mode power supplies
- Test and measurement equipment
- Medical electrical devices (MD) and *In-Vitro-Diagnostics (IVD)* equipment

Typical electrical schematic

Standard types and B types




The FN 9264 power entry module combines an IEC inlet, a mains filter with a 2-pole rocker switch in a compact housing.

Choosing the FN 9264 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances and good attenuation performance in compliance with EN/IEC 60601 for medical devices.

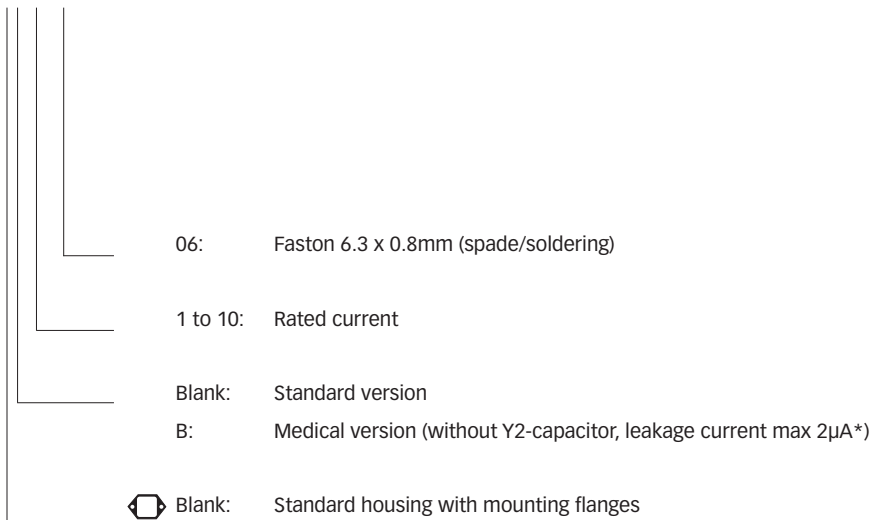
Standard IEC connector filters are a practical solution to pass EMI system approval in a short time. A wide selection of amperage ratings, mounting possibilities and filters for medical applications are designed to offer various solution.

Filter selection table

Filter	Rated current @ 40°C (25°C)	Leakage current* @ 250VAC/50Hz	Inductance L	Capacitance		Resistance R	Output connections 	Weight [g]
	[A]	[μA]	[mH]	Cx [μF]	Cy [nF]	[kΩ]		
FN 9264x-1-06	1 (1.2)	373	5.15	0.1	2.2	1000	-06	55
FN 9264x-2-06	2 (2.3)	373	2.7	0.1	2.2	1000	-06	55
FN 9264x-4-06	4 (4.6)	373	1	0.1	2.2	1000	-06	55
FN 9264x-6-06	6 (6.9)	373	0.3	0.1	2.2	1000	-06	55
FN 9264x-10-06	10 (11.5)	373	0.21	0.1	2.2	1000	-06	55

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

Product selector
FN 9264xx-yy-yy

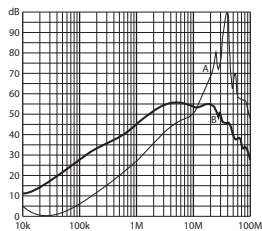


For example: FN 9264-1-06, FN 9264B-6-06

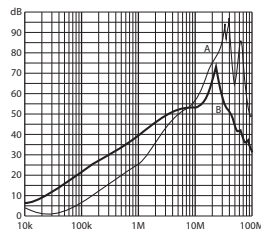
Typical filter attenuation

Per CISPR 17; A = 50Ω/50Ω sym; B = 50Ω/50Ω asym

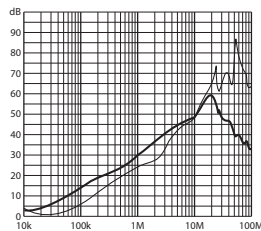
1A types



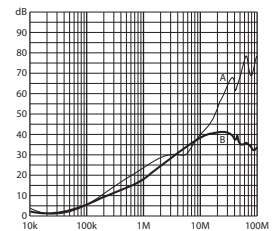
2A types



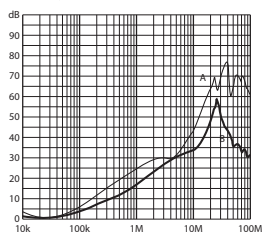
4A types



6A types

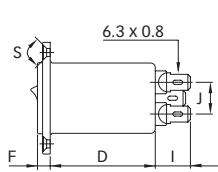
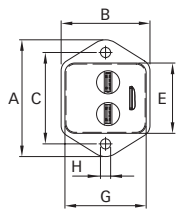


10A types

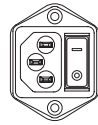


Mechanical data

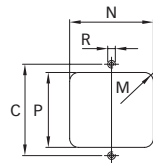
FN 9264



IEC plug type
C14



Panel cut out



Dimensions

	FN 9264	Tolerances	Tolerances
A	46		±0.3
B	35		
C	36		±0.2
D	45.95		±0.3
E	27.8		+0.3
F	5.5		±0.3
G	32		+0.3
H	Ø3.3		±0.1
I	13.85		
J	12.5		±0.5
M	R ≤ 3.5		
N	33.0		±0.3
P	29.0		±0.3
R	M3		
S	90°		

* For selecting the panel thickness, please refer to the filter selector table.

All dimensions in mm; 1 inch = 25.4mm

Tolerances according: ISO 2768-m / EN 22768-m

**Headquarters and
global innovation and
development center**

Schaffner Group
Nordstrasse 11
4542 Luterbach
Switzerland
T +41 32 681 66 26
F +41 32 681 66 30
info@schaffner.ch
www.schaffner.com

Sales and application centers

China
Schaffner EMC Ltd. Shanghai
T20-3, No 565 Chuangye Road
Pudong New Area
Shanghai 201201/China
T +86 21 3813 9500
F +86 21 3813 9501/02
cschina@schaffner.com
www.schaffner.com

Finland
Schaffner Oy
Tynninkuja 7
08700 Lohja
T +358 19 35 72 71
F +358 19 32 66 10
finlandsales@schaffner.com

France
Schaffner EMC S.A.S.
112, Quai de Bezons
95103 Argenteuil
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

Italy
Schaffner EMC S.r.l.
Via Galileo Galilei, 47
20092 Cinisello Balsamo (MI)
T +39 02 66 04 30 45/47
F +39 02 61 23 943
italysales@schaffner.com

Japan
Schaffner EMC K.K.
Mitsui-Seimei Sangenjaya Bldg. 7F
1-32-12, Kamiyama, Setagaya-ku
Tokyo 154-0011
T +81 3 5712 3650
F +81 3 5712 3651
japansales@schaffner.com
www.schaffner.jp

Sweden
Schaffner EMC AB
Turebergstorg 1, 6
19147 Sollentuna
T +46 8 5792 1121/22
F +46 8 92 96 90
swedensales@schaffner.com

Switzerland
Schaffner EMV AG
Nordstrasse 11
4542 Luterbach
T +41 32 681 66 26
F +41 32 681 66 41
sales@schaffner.ch

Singapore
Schaffner EMC Pte Ltd.
Blk 3015A Ubi Road 1
05-09 Kampong Ubi Industrial
Estate
T +65 6377 3283
F +65 6377 3281
singapore@schaffner.com

Spain
Schaffner EMC España
Calle Caléndula 93,
Miniparc III, Edificio E
El Soto de la Moraleja,
Alcobendas
28109 Madrid
T +34 618 176 133
spainsales@schaffner.com

Taiwan
Schaffner EMV Ltd.
6th Floor, No 413
Rui Guang Road
Neihu District
Taipei City 114
T +886 2 87525050
F +886 2 87518086
taiwansales@schaffner.com

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

UK
Schaffner Ltd.
5 Ashville Way
Molly Millars Lane
Wokingham
Berkshire RG41 2PL
T +44 118 9770070
F +44 118 9792969
uksales@schaffner.com
www.schaffner.uk.com

USA
Schaffner EMC Inc.
52 Mayfield Avenue
Edison, New Jersey 08837
T +1 732 225 9533
F +1 732 225 4789
usasales@schaffner.com
www.schaffner.com/us

To find your local partner within
Schaffner's global network, please go to

www.schaffner.com

November 2011

© 2011 Schaffner Group
Specifications are subject to change
without notice. The latest version of the
data sheets can be obtained from the
website. All trademarks recognized.

Schaffner is an ISO-registered company.
Its products are designed and manufac-
tured under the strict quality and environ-
mental requirements of the ISO 9001 and
ISO 14001 standards.

This document has been carefully checked.
However, Schaffner does not assume any
liability for errors or inaccuracies.