

IEC inlet filters FN 9263

General purpose power entry module with mains switch

SCHAFFNER

energy efficiency and reliability



- Rated currents up to 10A
- 1-pole rocker switch
- Snap-in versions (S and S1 type)
- Compact to fit 1U rack size

Approvals



(CQC approval pending)

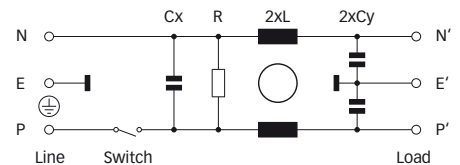


Technical specifications

Maximum continuous operating voltage:	250VAC, 50/60Hz
Operating frequency:	dc to 400Hz
Rated currents:	1 to 10A @ 40°C max.
High potential test voltage for capacitors:	P → E 2000VAC for 2 sec 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, UL 94V-0 or better
MTBF @ 40°C/230V (Mil-HB-217F):	6,500,000 hours
Rocker switch description:	
Function:	1-pole, dark not illuminated
	Marking I - 0
Electrical specifications:	
	Inrush current 78A
	10,000 on-off operations according to UL 1054, TV 5
Switch ratings:	
USA (UL):	10A, 125VAC; 8A, 250VAC; 1/4HP
Canada (CSA):	10A, 250VAC; 1/4HP
Europe (ENEC):	20A (4A), 250VAC*
China (CQC):	10A, 250VAC

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

Typical electrical schematic



The FN 9263 power entry module combines an IEC inlet, mains filter with excellent filter attenuation and a mains switch in a small form factor. Choosing the FN 9263 product line brings you the rapid availability of a standard filter associated with the necessary safety acceptances. Standard IEC connector filters are a practical solution helping you to pass EMI system approval in a short time. A wide selection on amperage ratings and mounting possibilities are designed to offer you the desired solution.


Features and benefits

- Exceptional conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- Rear/front or snap-in mounting.
- Small compact housing fitting 1U rack applications.
- Versions up to 10A are available with 1 pole rocker switch.
- Custom-specific versions are available on request.

Typical applications

- Portable electrical and electronic equipment
- Small to medium-sized machines and household equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Rack mounting equipment

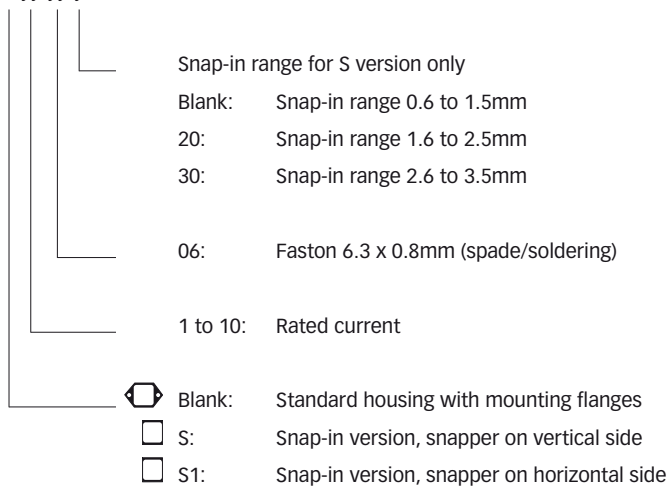
Filter selection table

Filter	Rated current @ 40°C (25°C)	Leakage current* @ 250VAC/50Hz	Inductance L	Capacitance Cx Cy		Resistance R	Output connections 	Weight [g]
	[A]	[µA]	[mH]	[µF]	[nF]	[kΩ]		
FN 9263x-1-06-y	1 (1.2)	373	5.3	0.1	2.2	1000	-06	55
FN 9263x-2-06-y	2 (2.3)	373	2.7	0.1	2.2	1000	-06	55
FN 9263x-3-06-y	3 (3.5)	373	2	0.1	2.2	1000	-06	55
FN 9263x-4-06-y	4 (4.6)	373	1	0.1	2.2	1000	-06	55
FN 9263x-6-06-y	6 (6.9)	373	0.3	0.1	2.2	1000	-06	55
FN 9263x-8-06-y	8 (9.2)	373	0.25	0.1	2.2	1000	-06	55
FN 9263x-10-06-y	10 (11.5)	373	0.2	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 9263x-yy-yy-y

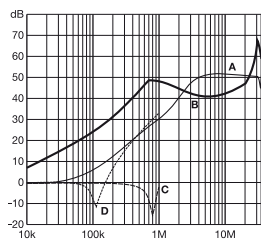


For example: FN 9263-1-06, FN 9263S-10-06-20, FN 9263S1-6-06-30

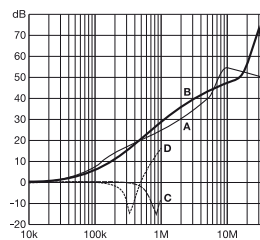
Typical filter attenuation

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

1 to 4A types

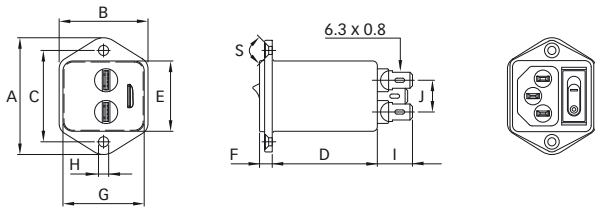


6 to 10A types

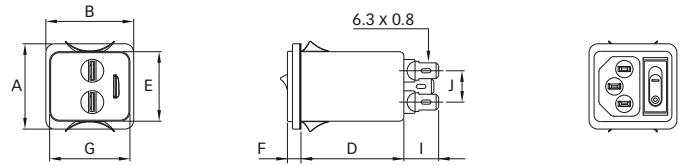


Mechanical data

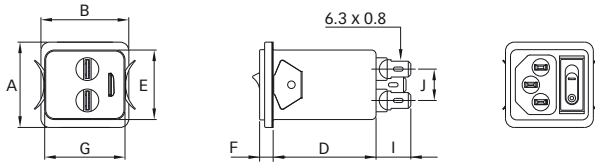
FN 9263



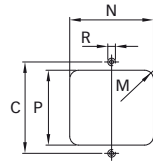
FN 9263S



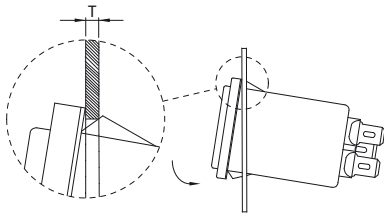
FN 9263S1



Panel cut out



Installation



Dimensions

	FN 9263	FN 9263S	FN 9263S1	Tolerances
A	46	34	34	±0.3
B	35	35	35	
C	36			
D	41	41	41	±0.3
E	27.9	27.9	27.9	+0.2/-0
F	5.5	5.5	5.5	±0.3
G	32.2	32.2	32.2	+0/-0.2
H	Ø3.3			±0.1
I	13.8	13.8	13.8	
J	12.5	12.5	12.5	±0.3
M	R ≤ 3.5	R ≤ 3.5	R ≤ 3.5	
N	33.2	32.6	33.3	±0.1
P	29.2	29.0	28.3	±0.1
R	M3			
S	90°			
T*		0.6 - 1.5	0.6 - 1.5	
T*		1.6 - 2.5	1.6 - 2.5	
T*		2.6 - 3.5	2.6 - 3.5	

* For selecting the panel thickness, please refer to the filter selector table.
All dimensions in mm; 1 inch = 25.4mm