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Compact filtered power entry module



- Complies with IEC/EN 60601-1
- Rated currents up to 10 A
- Single or dual-fuse holder
- Fuses ø5 x 20 mm
- 2-pole rocker switch
- General purpose application
- Optional earth line choke (E type)
- Optional medical versions (B type)

Performance indicators

Attenuation performance



Rated current [A]



Approvals & Compliances

(CQC except HI-types)

Features and Benefits

- High conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior
- Rear/front or snap-in mounting
- Single or dual-fuse holder
- 2-pole rocker switch
- Custom-specific versions are available on request

Typical Applications

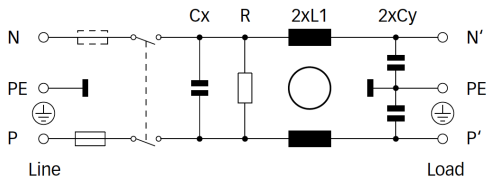
- Portable electrical and electronic equipment
- Consumer goods
- EDP and office equipment
- Single-phase power supplies, switch-mode power supplies
- Test and measurement equipment
- Medical equipment

Technical Specifications

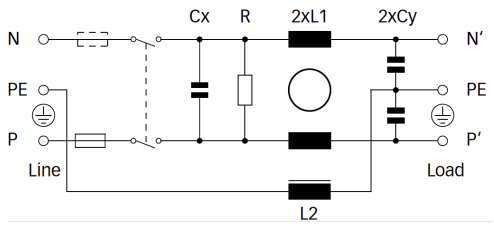
Maximum continuous operating voltage	250 VAC, 50/60 Hz
Nominal operating voltage	230 VAC
Rated currents	1 to 10 A @ 40°C
Operating frequency	DC to 400 Hz
High potential test voltage	P –> PE 2000 VAC for 2 sec (standard types) P –> PE 2500 VAC for 2 sec (B types) P –> N 760 VAC for 2 sec
Temperature range (operation and storage)	-25°C to +85°C (25/85/21)
Protection category	IP 40 according to IEC 60529
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)	>1,500,000 h @ 40°C/230 V
Fuse holder	1 or 2 fuses (Ø5 x 20 mm) (certified to IEC 60127-6), power acceptance 1.6W @ Ta 23°C per pole for 2 fuses. 2.5W, if only 1 pole is used.
Marking	Marking max. 250 V ~ (text is print. below fuse symbol)
Rocker switch description	
Switch ratings	
Function	2-pole, dark not illuminated Marking I - 0
Electrical specifications	Inrush current 82 A 6,000 on-off operations according to UL 1054, TV5 10,000 on-off operations according to ENEC
Europe (ENEC)	10 A (4 A), 250 VAC*
USA (UL) and Canada (C-UL)	10 A, 125 VAC 10 A, 250 VAC 1/3 HP

* Value in () relates to the inductive current charge: cos(phi) = 0.65

Typical electrical schematic



E types



Filter Selection Table

Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230 VAC/50 Hz [µA]	Inductance** L1 [mH]	Inductance** L2 [mH]	Capacitance** Cx [nF]	Capacitance** Cy [nF]	Resistance** R [kΩ]	Output connections	Fuses*** [Qty]	Weight [g]
FN 281-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	1	90
FN 281-2-06	2 (2.4)	373	2		220	2.2	1000	-06	1	90
FN 281-4-06	4 (4.8)	373	1		220	2.2	1000	-06	1	90
FN 281-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	1	90
FN 281-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	1	90
FN 282-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	2	90
FN 282-2-06	2 (2.4)	373	2		220	2.2	1000	-06	2	90
FN 282-4-06	4 (4.8)	373	1		220	2.2	1000	-06	2	90
FN 282-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	2	90
FN 282-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	2	90
FN 283-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	1	90
FN 283-2-06	2 (2.4)	373	2		220	2.2	1000	-06	1	90
FN 283-4-06	4 (4.8)	373	1		220	2.2	1000	-06	1	90
FN 283-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	1	90
FN 283-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	1	90
FN 284-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	2	90
FN 284-2-06	2 (2.4)	373	2		220	2.2	1000	-06	2	90
FN 284-4-06	4 (4.8)	373	1		220	2.2	1000	-06	2	90
FN 284-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	2	90
FN 284-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	2	90
FN 285-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	1	90
FN 285-2-06	2 (2.4)	373	2		220	2.2	1000	-06	1	90
FN 285-4-06	4 (4.8)	373	1		220	2.2	1000	-06	1	90
FN 285-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	1	90
FN 285-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	1	90
FN 286-1-06	1 (1.2)	373	7.5		220	2.2	1000	-06	2	90
FN 286-2-06	2 (2.4)	373	2		220	2.2	1000	-06	2	90
FN 286-4-06	4 (4.8)	373	1		220	2.2	1000	-06	2	90
FN 286-6-06	6 (7.2)	373	0.45		220	2.2	1000	-06	2	90
FN 286-10-06	10 (11.6)	373	0.34		220	2.2	1000	-06	2	90
FN 283 E-1-06	1 (1.2)	373	7.5	0.4	220	2.2	1000	-06	1	100
FN 283 E-2-06	2 (2.4)	373	2	0.4	220	2.2	1000	-06	1	100
FN 283 E-4-06	4 (4.8)	373	1	0.4	220	2.2	1000	-06	1	100
FN 283 E-6-06	6 (7.2)	373	0.45	0.4	220	2.2	1000	-06	1	100
FN 284 E-1-06	1 (1.2)	373	7.5	0.4	220	2.2	1000	-06	2	100
FN 284 E-2-06	2 (2.4)	373	2	0.4	220	2.2	1000	-06	2	100
FN 284 E-4-06	4 (4.8)	373	1	0.4	220	2.2	1000	-06	2	100
FN 284 E-6-06	6 (7.2)	373	0.45	0.4	220	2.2	1000	-06	2	100
FN 282 B-1-06	1 (1.2)	2	7.5		220		1000	-06	2	90
FN 282 B-2-06	2 (2.4)	2	2		220		1000	-06	2	90
FN 282 B-4-06	4 (4.8)	2	1		220		1000	-06	2	90
FN 282 B-6-06	6 (7.2)	2	0.45		220		1000	-06	2	90
FN 282 B-10-06	10 (11.6)	2	0.34		220		1000	-06	2	90

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

** Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%

*** Filters are delivered without fuse.

Filter	Rated current @ 40°C (25°C) [A]	Leakage current* @ 230 VAC/50 Hz [µA]	Inductance** L1 [mH]	Inductance** L2 [mH]	Capacitance** Cx [nF]	Capacitance** Cy [nF]	Resistance** R [kΩ]	Output connections	Fuses*** [Qty]	Weight [g]
FN 284 B-1-06	1 (1.2)	2	7.5		220		1000	-06	2	90
FN 284 B-2-06	2 (2.4)	2	2		220		1000	-06	2	90
FN 284 B-4-06	4 (4.8)	2	1		220		1000	-06	2	90
FN 284 B-6-06	6 (7.2)	2	0.45		220		1000	-06	2	90
FN 284 B-10-06	10 (11.6)	2	0.34		220		1000	-06	2	90
FN 286 B-1-06	1 (1.2)	2	7.5		220		1000	-06	2	90
FN 286 B-2-06	2 (2.4)	2	2		220		1000	-06	2	90
FN 286 B-4-06	4 (4.8)	2	1		220		1000	-06	2	90
FN 286 B-6-06	6 (7.2)	2	0.45		220		1000	-06	2	90
FN 286 B-10-06	10 (11.6)	2	0.34		220		1000	-06	2	90

* Maximum leakage under normal operating conditions. Note: if the neutral line is interrupted, worst case leakage could reach twice this level.
** Tolerances apply: Inductance: -30/+50%, Capacitance: ±20%, Resistance: ±10%
*** Filters are delivered without fuse.

Product selector

FN 28xx-yy-zz

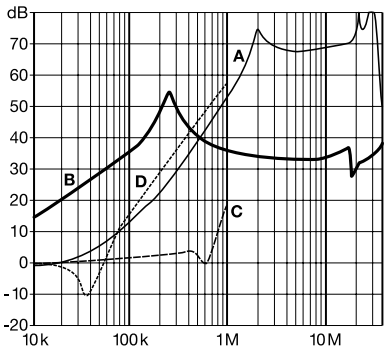
zz	06:	Faston 6.3 x 0.8mm (spade/soldering)
yy	1 to 10:	Rated current
xx	Blank:	Standard version
	E:	Optional earth line choke
	B:	Medical version (with bleed resistor and without Y2-capacitor)
	1:	Flange mounting version top/bottom, single-fuse
	2:	Flange mounting version top/bottom, dual-fuse
	3:	Flange mounting version left/right, single-fuse
	4:	Flange mounting version left/right, dual-fuse
	5:	Snap-in version, single-fuse
	6:	Snap-in version, dual-fuse

For example: FN 281-6-06, FN 283 B-04-06, FN 283 E-1-06

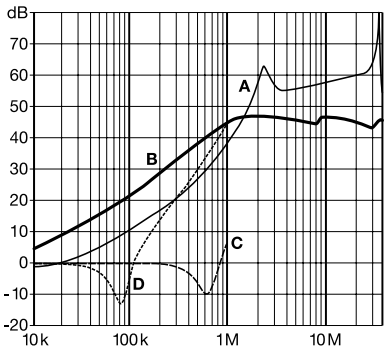
Typical Filter Attenuation

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

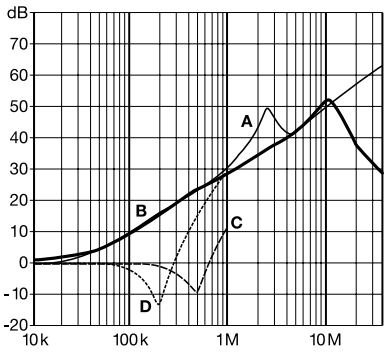
1 A types



2 to 6 A types

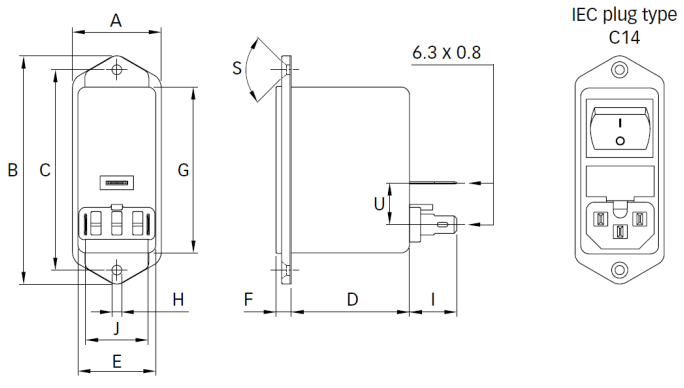


10 A types

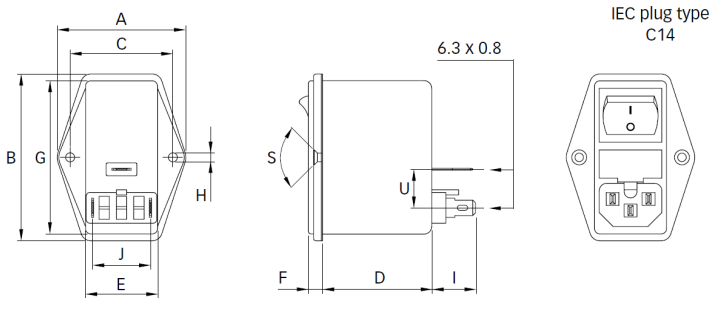


Mechanical Data

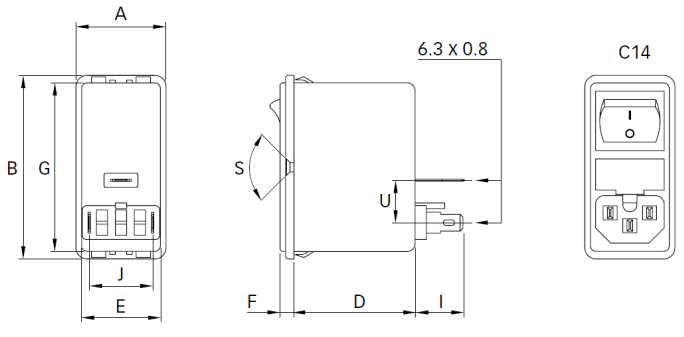
FN 281/FN 282



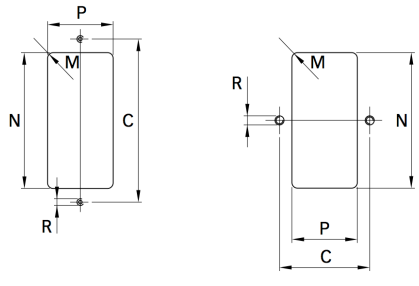
FN 283/FN 284



FN 285/FN 286



Panel cut out



Dimensions

	FN 281	FN 282	FN 283	FN 284	FN 285	FN 286	Tolerances
A	32	32	50	50	32	32	±0.3
B	82	82	65	65	65	65	±0.3
C	72	72	40	40			±0.1
D	43.1	43.1	43.1	43.1	43.6	43.6	±0.3
E	28.5	28.5	28.5	28.5	28.5	28.5	±0.25
F	5.5	5.5	5.5	5.5	5	5	±0.3
G	59.95 max.	59.95 max.	59.95 max.	59.95 max.	59.95 max.	59.95 max.	
H	Ø3.5	Ø3.5	Ø3.3	Ø3.3			
I	13.4	16.2	13.4	16.2	13.9	16.7	±0.3
J	22.5	22.5	22.5	22.5	22.5	22.5	
M	R ≤2.5	R ≤2.5	R ≤2.5	R ≤2.5	R ≤2.5	R ≤2.5	
N	60	60	60	60	61.5+0.2/-0*	61.5+0.2/-0*	+0.5/-0
P	29	29	29	29	29	29	+0.5/-0
R	M3	M3	M3	M3			
S	90°	90°	90°	90°			

* For a panel thickness between 0.8 and 3 mm

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

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

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