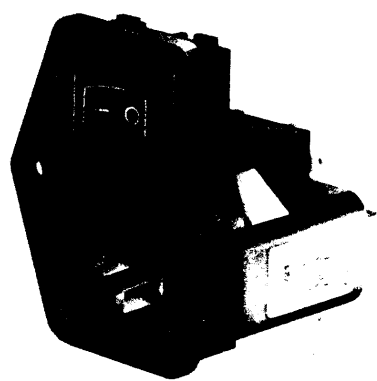


114-7657

FN 370 FN 380

Power line filter with fuses:
FN 370, with line voltage selector
FN 380, with power switch



The FN 370/380 series of Universal Power Entry Modules are available in a variety of configurations. The basic series features an IEC Connector with either one or two fuse holders, which can be American or European style (3 AG or 5 x 20 mm). The FN 370 series is equipped with a voltage selector drum which allows programming for the different voltage levels which exist around the world. The FN 380 features a power on/off switch instead of a voltage selector. Both are available with either snap in mounting or screw mounting, with the screw mounting recommended where space is available for greater mechanical security. The FN 370 series is available with current ratings of two, four and six amps, one or two fuses, in snap in or screw

mount, with three different programming drums for the different possible transformer configurations. It is also available as the FN 377 or the FN 379 which features a higher performance filter and additionally, we offer in the FN 379 series, a medical version with extremely low leakage current to ground for medical applications. The FN 380 series has all of the features mentioned earlier including FN 387 higher performance and FN 389 medical versions but with the voltage programming feature replaced by a single or double pole power on/off switch. The FN 370 and 380 series Universal Power Entry Modules allows for design using a single unit for all of the functions required for the power entry for virtually anywhere in the world.

By Phone 8/24/87 (372)

CSA-2 APPROVED
 CSA-1 SUBMITTED
 FN 370 FN 380

UL ENEC S D approved

* only 370 / 376 / 380 / 386 approved
 372 / 378 / 382 / 388 submitted

FN 370 / 372 376 / 378	FN 380 / 382 386 / 388	Rated current A 45° C	Leakage current	Number of fuses	Inductance mH	Mounting	Weight g
FN 370-2/ FN 372-2/ FN 376-2/ FN 378-2/ FN 370-4/ FN 372-4/ FN 376-4/ FN 378-4/ FN 370-6/ FN 372-6/ FN 376-6/ FN 378-6/	FN 380-2/ FN 382-2/ FN 386-2/ FN 388-2/ FN 380-4/ FN 382-4/ FN 386-4/ FN 388-4/ FN 380-6/ FN 382-6/ FN 386-6/ FN 388-6/	2 4 6 	 at 220 V, 50 Hz max. 2x0.2 mA at 115 V, 60 Hz max. 2x0.13 mA	 2 1 2 1 2 1 2 1 2	 0.3 0.18	snap-in snap-in screw screw snap-in snap-in screw screw snap-in snap-in screw screw	60 60 65 65 60 60 65 65 60 60 65 65
FN 380 1 = Fuseholder European (DIN) style (5 x 20 mm) 2 = Fuseholder US style (3 AG) 1 = 1 Pole rocker switch 2 = 2 Pole rocker switch FN 370 1 = Fuseholder European (DIN) style (5 x 20 mm) 2 = Fuseholder US style (3 AG) Transformer circuit (primary side) 1 = Series/Parallel 110, 220, 240 V 2 = Series/Parallel 100, 120, 220, 240 V 3 = Series/Parallel 115/230 V						Connections Input Output IEC/CEE Standard plug soldering lug fast-on 0.11x0.02	

FN 370 FN 380 Higher Performance Filter










FN 377 379	FN 387 389	Rated current A 45° C	Leakage current	Number of fuses	Inductance mH	Mounting	Weight g
FN 377-2/ FN 379-2/ FN 377-4/ FN 379-4/ FN 377-6/ FN 379-6/	FN 387-2/ FN 389-2/ FN 387-4/ FN 389-4/ FN 387-6/ FN 389-6/	2 4 6	at 220 V, 50 Hz max. 2x0.2 mA at 115 V, 60 Hz max. 2x0.13 mA	1 2 1 2 1 2	2 0.8 0.5	screw	85

For Medical Applications

FN 379B     approved

 submitted

FN 379B-2/ FN 379B-4/ FN 379B-6/	FN 389B-2/ FN 389B-4/ FN 389B-6/	2 4 6	at 220 V, 50 Hz max. 2x2 µA at 115 V, 60 Hz max. 2x1.3 µA	2 2 2	2 0.8 0.5	screw	85
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FN 380

- 1 = Fuseholder European (DIN) style (5 x 20 mm)
- 2 = Fuseholder US style (3 AG)
- 1 = 1 Pole rocker switch
- 2 = 2 Pole rocker switch

FN 370

- 1 = Fuseholder European (DIN) style (5 x 20 mm)
- 2 = Fuseholder US style (3 AG)

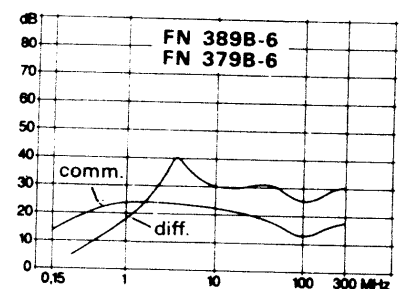
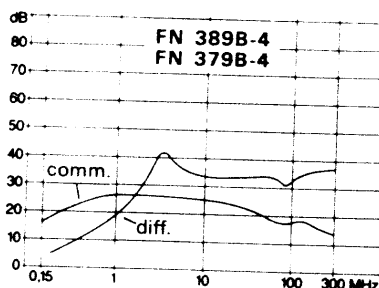
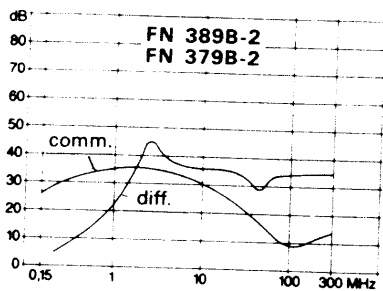
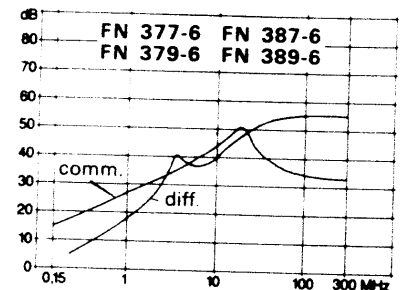
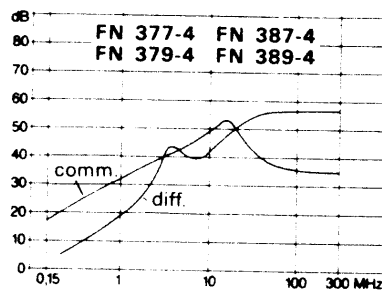
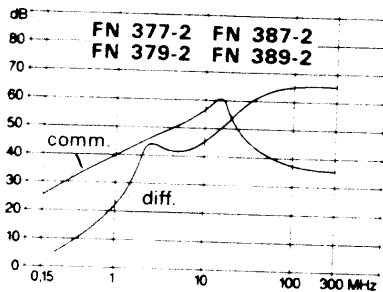
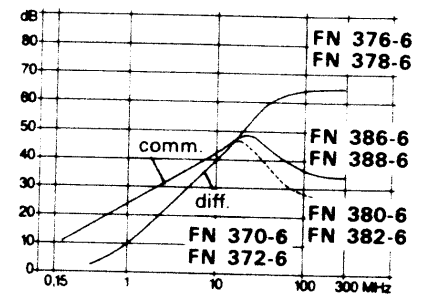
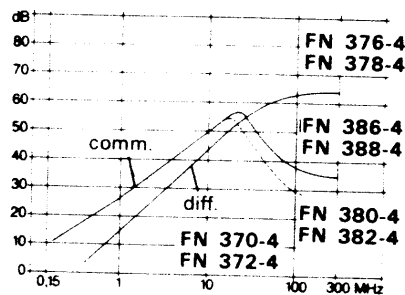
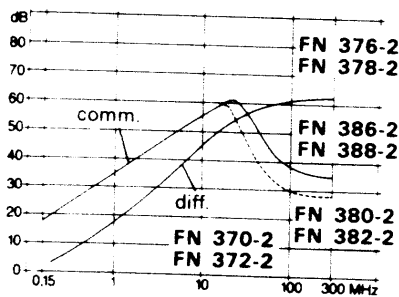
Transformer circuit (primary side)

- 1 = Series/Series 110, 220, 240 V
- 2 = Series/Parallel 100, 120, 220, 240 V
- 3 = Series/Parallel 115/230 V

Connections

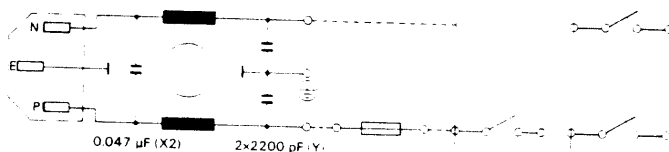
Input	Output
IEC/CEE Standard plug	soldering lug fast-on 0.11x0.02

Insertion loss



Circuit

FN 380, FN 386, FN 387



Rocker Switch

1-pole 2-pole

Rocker Switch

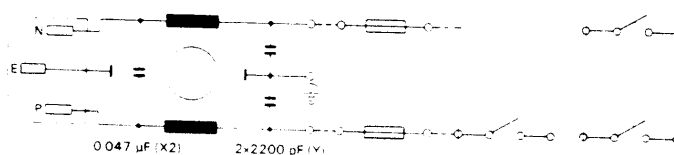
1-pole

Rated current:
6(4)A/250 V~
50'000 on-off operations
10(4)A/250 V~
10'000 on-off operations
Switching current test according to UL 1054, TV 2 passed (Switching current 35 A)

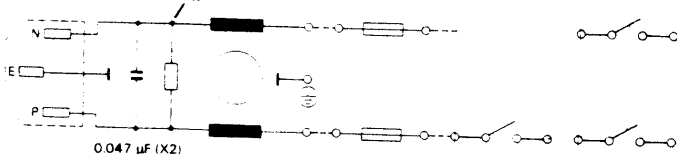
2-pole

Rated current:
4(1)A/250 V~
6(1)A/125 V~
10'000 on-off operations
Switching current test according to UL 1054, TV 3 passed (Switching current 51 A)

FN 382, FN 388, FN 389



FN 389B

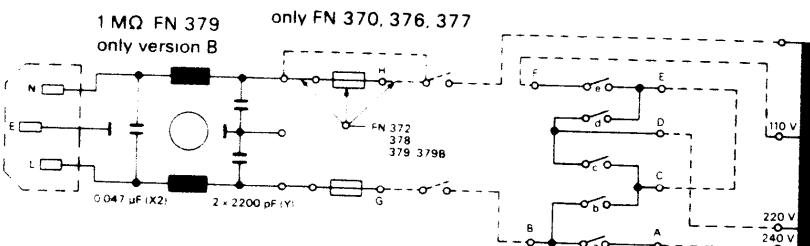


Values in () relate to the inductive current charge, $\cos \phi = 0.65$.

--- external connection

Series - Series

For transformers with tap

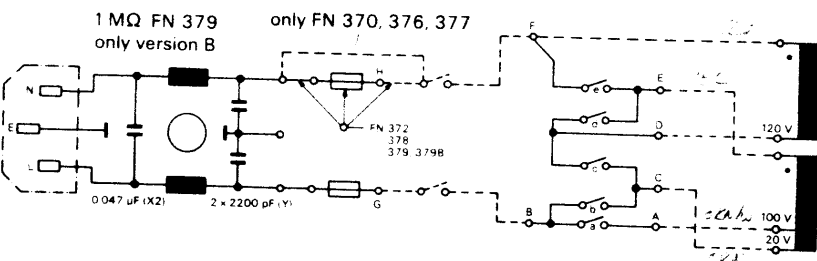


--- external wiring

Voltage	Contacts
110 V	b, e
220 V	b, c
240 V	a,

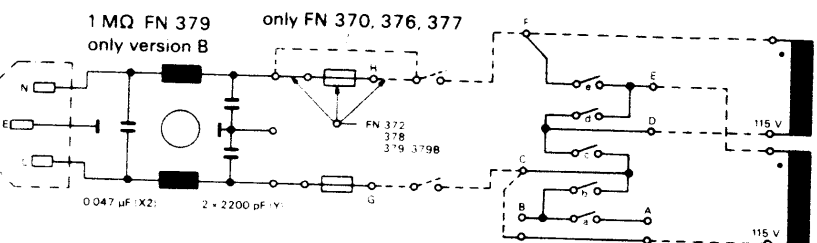
Series - Parallel

For transformers with two separate windings



--- external wiring

Voltage	Contacts
100 V	a, c, e
120 V	b, c, e
220 V	a, d
240 V	b, d



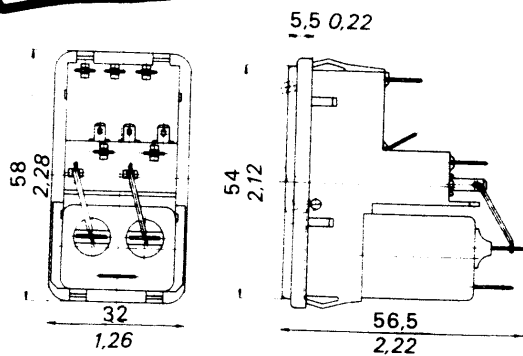
--- external wiring

Voltage	Contacts
115 V	a, c, e
115 V	b, c, e
230 V	a, d
230 V	b, d

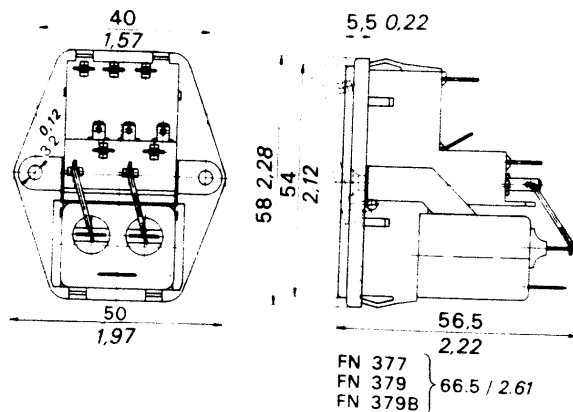
For use without external ON/OFF-switch the output H and F, resp. G and B (G and C in the underneath circuit) are to be connected.

Dimensions

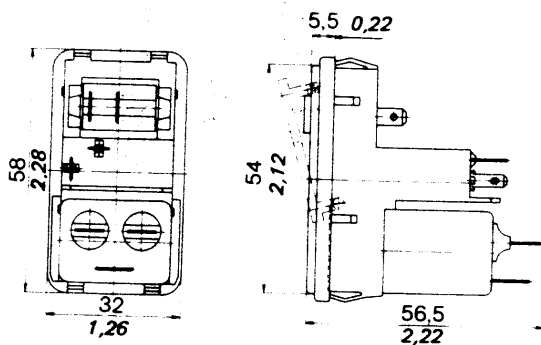
FN 370, 372



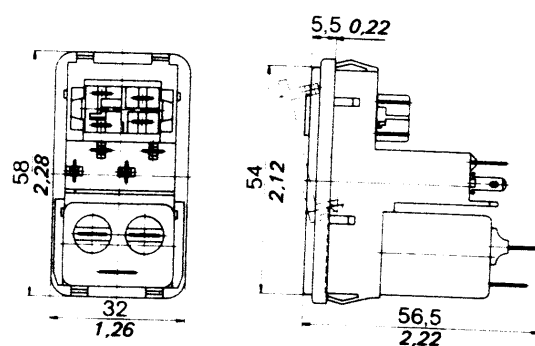
FN 376, 377, 378, 379, 379B



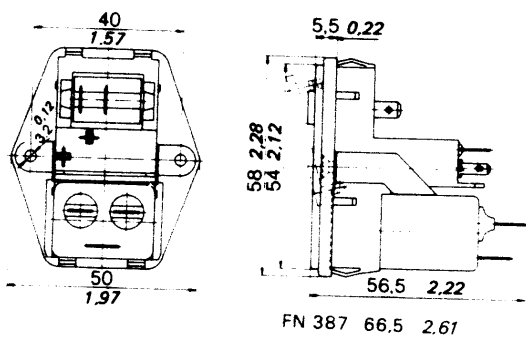
FN 380



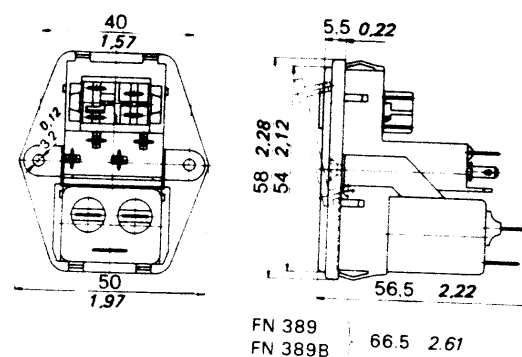
FN 382



FN 386, FN 387

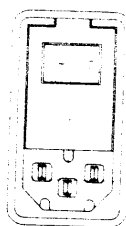


FN 388, FN 389, FN 389B

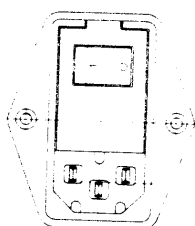


Front view

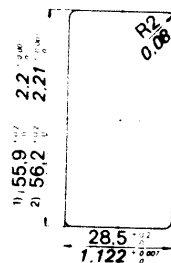
Snap-version



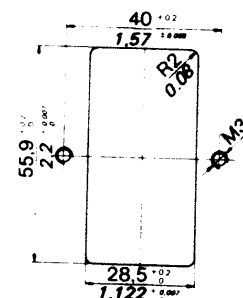
Screw-version



Cut out
Snap-version



Screw-version



Thickness of mounting panels
1) 0.03 to 0.07"
2) 0.08 to 0.12"