

# Versatile power entry module

# FN 390

- Up to 10A current ratings
- IEC 950-compliant (twin fuse configurations only)
- General-purpose or high-performance filtering
- For one or two fuses (Ø5 x 20 or Ø6.3 x 32mm)
- Nennstrom bis 10A
- IEC 950 konform (nur Konfigurationen mit zwei Sicherungen)
- Universal- oder Hochleistungsfilterung
- Für eine oder zwei Sicherungen (Ø5 x 20mm oder Ø6,3 x 32mm)
- Courants de service pouvant atteindre 10A
- Conforme à CEI 950 (uniquement pour les configurations à deux fusibles)
- Applications universelles ou de hautes performances
- Pour un ou deux fusibles (Ø5 x 20mm ou Ø6,3 x 32mm)



## Filter selection table

Choose the family FN xxx with the required body style and features, and add -?? to determine current rating, and /?? for output connections. Example: FN 394-1/05 is a vertical screw-mounting filter for twin fuses, rated for 1A, with fast-on outputs.

## Approvals



Family	Current ratings A at 40°C (25°)				Output	Housing	For fuse(s) Nbr.
	1 (1.2)	2.5 (3)	6 (7.2)	10 (12)			
FN 393 -?? /??	-1	-2.5	-6		/05 - 11	■	1
FN 394 -?? /??	-1	-2.5	-6		/05 - 11	■	2
Inductance L mH							
	7.5	2	0.45				

Family	Current ratings A at 40°C (25°)				Output	Housing	For fuse(s) Nbr.
	1 (1.2)	2.5 (3)	6 (7.2)	10 (12)			
FN 1393 -?? /??	-1	-2.5	-6	-10	/05 - 11	■	1
FN 1394 -?? /??	-1	-2.5	-6	-10	/05 - 11	■	2
Inductance L mH							
	16	8	2.5	0.6			

## Additional specifications

Filter type	Capacitance			Maximum leakage µA/phase	Res. R MΩ	Earth L <sub>E</sub> mH	Weight g	Maximum operating volt.		Operating frequency Hz	Hipot test voltage	
	C <sub>x</sub> nF	C <sub>x1</sub> nF	C <sub>y</sub> nF					VAC	Hz		PN→E VAC	P→N VDC
FN 393/394 types	220		3.3	290	1		200	250	50/60	50 to 400	2000	1700
FN 393E/394E types	220		3.3	290	1	0.4	205	250	50/60	50 to 400	2000	1700
FN 1393/1394 types	220	100	4.7	410	0.47		210	250	50/60	50 to 400	2000	1700

MTBF at 40°C, 230V, per Mil-HB-217F: 700,000 hours (FN 39X); 550,000 hours (FN 139X)

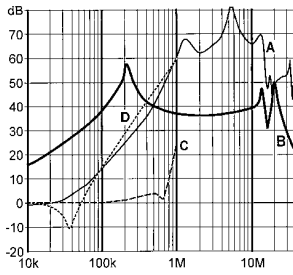
\*For medical versions, please contact your local sales office or representative.  
E types are optional

Voltage selector: series/parallel 110–120V or 220–240V

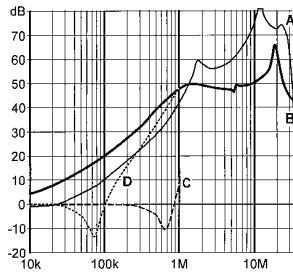
## FN 390 insertion loss

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

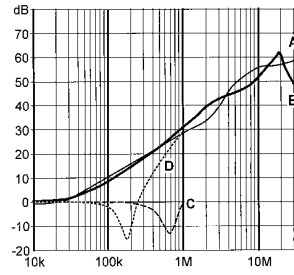
### 1 amp FN 39X types



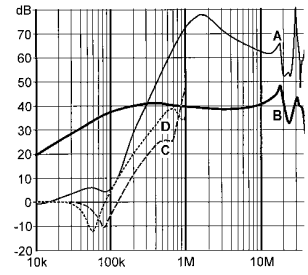
### 2.5 amp FN 39X types



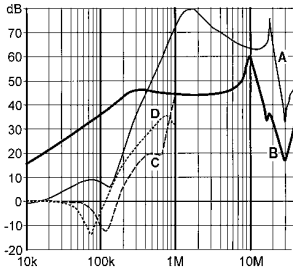
### 6 amp FN 39X types



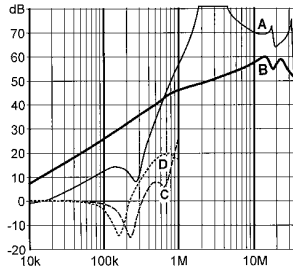
### 1 amp FN 139X types



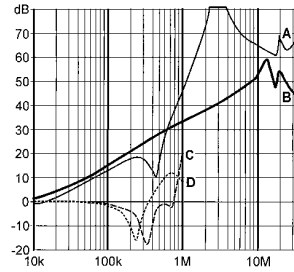
### 2.5 amp FN 139X types



### 6 amp FN 139X types

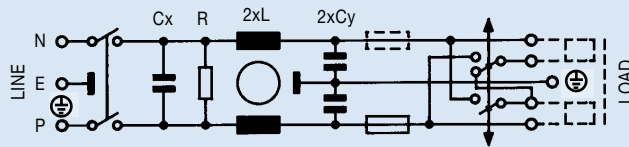


### 10 amp FN 139X types

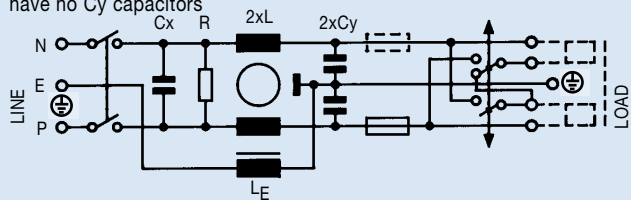


## Electrical schematics

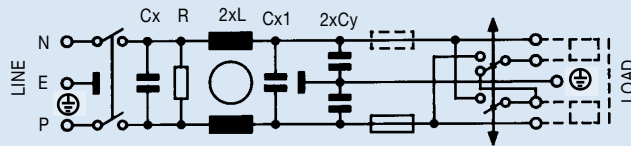
FN 393, FN 394 (have second fuse - shown dotted), medical\* types have no Cy capacitors



FN 393E, FN 394E (have second fuse - shown dotted), medical\* types have no Cy capacitors



FN 1393, FN 1394 (have second fuse - shown dotted), medical\* types have no Cy capacitors

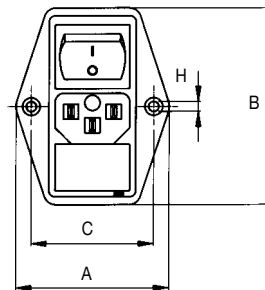


See tables for component values

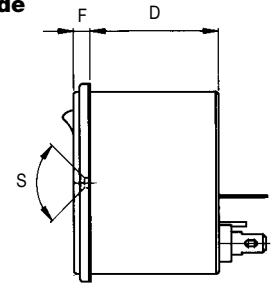
## Mechanical data

		Tol. mm
<b>A</b>	50	± 0.3
<b>B</b>	65	± 0.3
<b>C</b>	40	± 0.1
<b>D</b>	69.5	± 0.3
<b>F</b>	5.5	± 0.3
<b>H</b>	Ø3.3	-
<b>M</b>	R<2.5	-
<b>N</b>	60.8	± 0.7
<b>P</b>	29.3	± 0.2
<b>R</b>	M3	-
<b>S</b>	90°	-

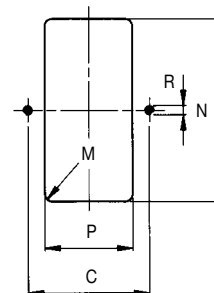
### Front



### Side



### Panel cut-out



All dimensions in mm; 1 inch = 25.4mm