

## FN 355

## General-purpose filter

- 3 to 20A current ratings
  - low leakage current
  - three phases + neutral + earth connections
  - suitable for Y and  $\Delta$  networks
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- Nennströme von 3 bis 20A
  - Geringer Ableitstrom
  - Anschlüsse für drei Phasen, Nulleiter und Masse
  - Geeignet für Y und  $\Delta$ -Schaltungen
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- courants de service entre 3 et 20A
  - courant de fuite réduit
  - connexions pour trois phases, neutre et terre
  - adapté aux réseaux étoile et  $\Delta$



### Technical specifications

Maximum operating voltage: 440VAC at 40°C; Operating frequency: DC to 60Hz at 40°C



Hipot test voltage: P  $\Rightarrow$  E 2000VAC; P  $\Rightarrow$  P 1900VDC

MTBF at 40°C, 400V per Mil-HB-217F: 850,000 hours

Overload: 4 times rated current at switch on, then 1.5 times rated current for 1 minute, once per hour

### Approvals



Filter	Current ratings at 40°C (25°) A	Leakage current <sup>†</sup> (400V/50Hz) mA	Power loss W	Component values/phase			Phase connections  	Weight kg
				L mH	C <sub>x</sub> μF	C <sub>y</sub> nF		
FN 355 - 3 / ??	3 (3.4)	0.07	1.5	1	0.1	4.7	/05	0.25
FN 355 - 6 / ??	6 (6.9)	0.07	1.5	0.45	0.1	4.7	/05	0.25
FN 355 - 10 / ??	10 (11.5)	0.07	1.7	0.2	0.1	4.7	/05	0.25
FN 355 - 20 / ??	20 (23)	0.29	3.6	0.12	0.1	22	/03	0.29

<sup>†</sup> Max. leakage under normal circumstances. Note: if two phases are interrupted, worst-case leakage current could reach 5.8 times higher levels.

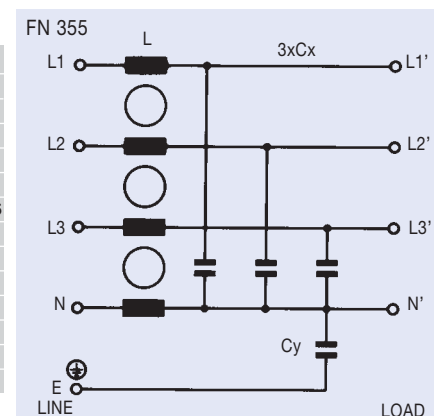
### Mechanical data

Current		Tol. ± mm
A	85	± 0.5
B	54	± 0.5
C	40.3	± 1
D	65	± 1
E	75	± 0.2
G	0.7	± 0.05
H	11.3	± 0.5
I	28.8	± 0.5
K	36.8	± 0.5
L	27	± 0.5
M	6.3	± 0.1
N	5.3	± 0.1
P	50	± 1

All dimensions in mm; 1 inch = 25.4mm

### Electrical schematic

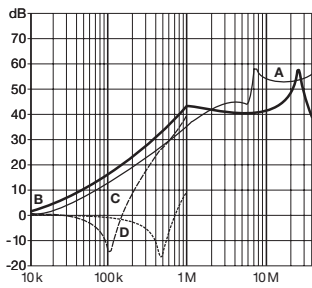
See table for component values



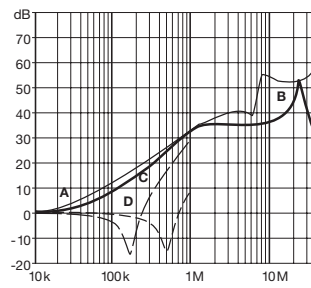
## FN 355 insertion loss

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

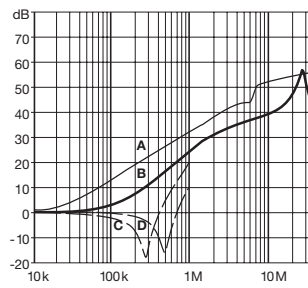
### 3 amp types



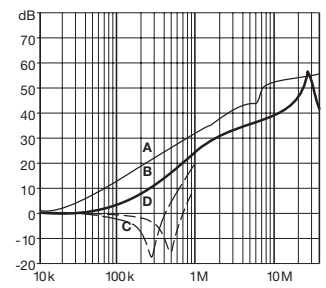
### 6 amp types



### 10 amp types



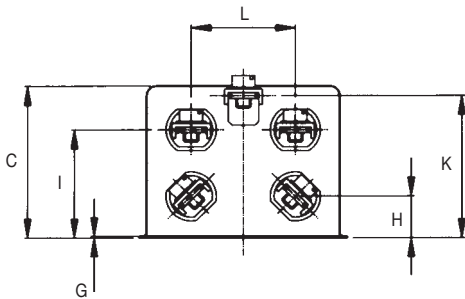
### 20 amp types



## Mechanical drawings

See mechanical data table for dimensions

### FRONT



### TOP

