

FN 355

General-purpose filter

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



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† (400V/50Hz) mA	Power loss W	Component values/phase			Phase connections	Weight kg
				L mH	C _x μF	C _y nF		
FN 355 - 3 / ??	3 (3.4)	0.07	1.5	1	0.1	4.7	/01 /05	0.25
FN 355 - 6 / ??	6 (6.9)	0.07	1.5	0.45	0.1	4.7	/01 /05	0.25
FN 355 - 10 / ??	10 (11.5)	0.07	1.7	0.2	0.1	4.7	/01 /05	0.25
FN 355 - 20 / ??	20 (23)	0.29	3.6	0.12	0.1	22	/03	0.29

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

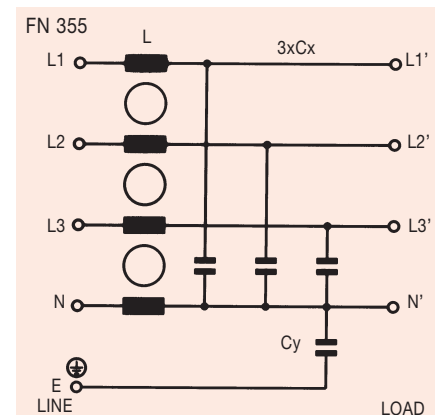
Mechanical data

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

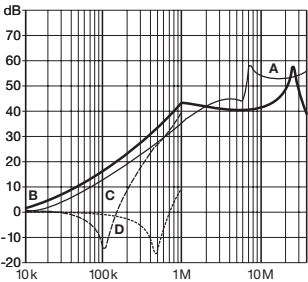
See table for component values



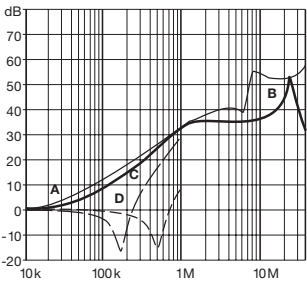
FN 355 insertion loss

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

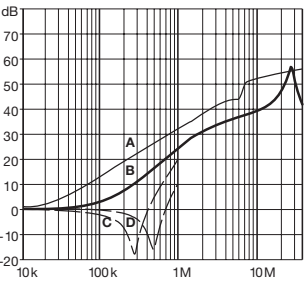
3 amp types



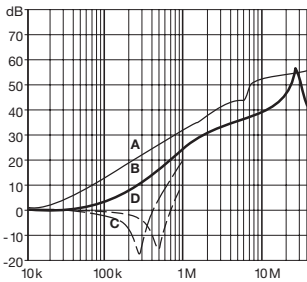
6 amp types



10 amp types



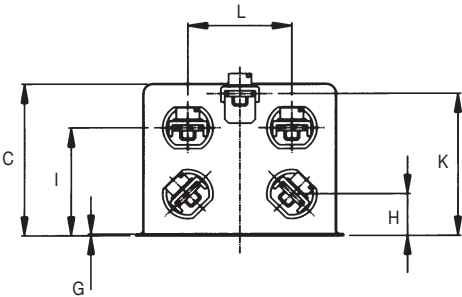
20 amp types



Mechanical drawings

See mechanical data table for dimensions

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