

Three Phase + Neutral Filters

Residential / Light industrial environments

F.LL.D4 series – DN type

General performance, low earth-leakage

This range of compact lightweight, three phase + neutral filters offer a very economic design solution for many OEM applications up to 520Vac operating voltage. Due to its lower earth-leakage current and high attenuation performance, the DN series is particularly suited for industrial power systems, machine tools and control cabinets, switch mode power supplies, process machinery and medical equipment systems.

- Current ratings from 8A to 64A
- High attenuation performance
- High voltage 520Vac design for worldwide applications
- Low earth-leakage
- Compact, lightweight, space saving construction
- Screw terminal for quick and easy installation
- Additional high current ratings available

Mechanical specifications

Manufacture: aluminium case

Connections: strip terminal block -

6mm² solid wire, 4mm² flex wire - 8A, 16A

16mm² solid wire, 10mm² flex wire - 25A, 36A

25mm² solid wire, 16mm² flex wire - 64A



Electrical specifications

Rated voltage (V_R): 520Vac 50/60Hz

Rated current (I_R): referred to 50 (40)°C

Leakage current (I_L): normal: < 3.4mA

fault: 25mA (only one phase remaining)

Voltage test (2s.): line to ground 3470Vdc

line to line 1700Vdc

Climatic category: HMF (25/100/21):

temperature range: -25°C to +100°C

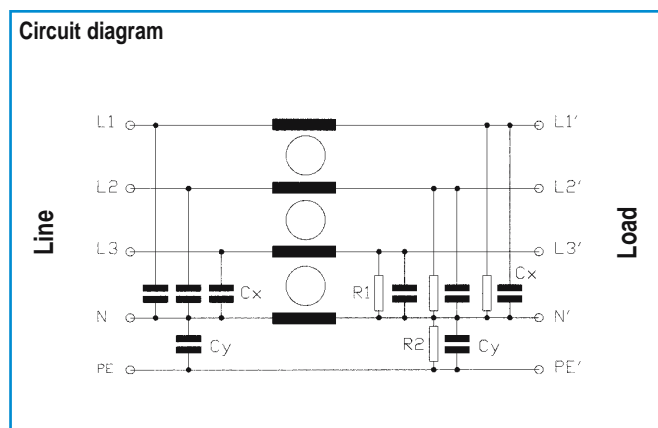
Filter range

Code	I_R (A)	L (mH)	Cx (μF)	Cy (μF)	R1 MΩ	R2 MΩ
F.LL.D4.008A.DN.R1	8 (9.1)	4x1.78	6x2.2	2x0.1	3x1.5	1x0.68
F.LL.D4.016A.DN.R1	16 (18.1)	4x1.14	6x2.2	2x0.1	3x1.5	1x0.68
F.LL.D4.025A.DN.R1	25 (28.3)	4x1.57	6x4.7	2x0.1	3x0.82	1x0.68
F.LL.D4.036A.DN.R1	36 (40.8)	4x1.1	6x4.7	2x0.1	3x0.82	1x0.68
F.LL.D4.064A.DN.R1	64 (72.6)	4x1	6x4.7	2x0.1	3x0.82	1x0.68

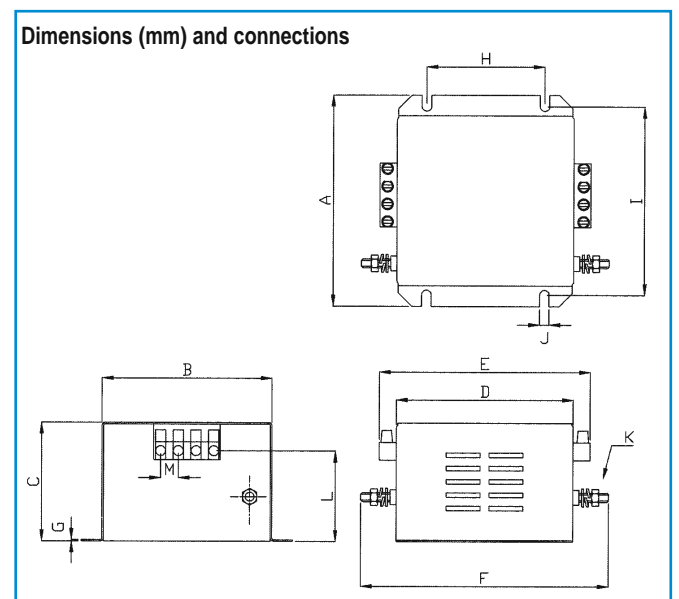
Dimensions

Code	A	B	C	D	E	F	G	H	I	J	K	L	M
8A, 16A	143	115	80	120	144	163	1	80	127.5	6.5	M6	64	12
25A, 36A	153	125	115	130	159	173	1	90	137.5	6.5	M6	94	14.5
64A	153	125	125	140	178	184	1.5	100	137.5	6.5	M6	104	14.5

Circuit diagram



Dimensions (mm) and connections



Approvals Made in accordance to VDE, UL and CSA requirements

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Insertion loss (Typical)

--- Symmetrical (line to line) — Asymmetrical (line to ground)

