

Three Phase Filters

Residential / Light industrial environments

F.L.L.D3 series – SC type

High performance, slim, compact design

This wide range of compact, three phase multistage filters offer a high level of attenuation performance across a broad frequency range for the suppression of inverters and power drive applications. Universal voltage and technical specifications ensure the range meets the needs of world-wide power drive systems and are ideally suited for long motor cable runs.

- Current ratings from 8A to 130A
- High attenuation performance
- High voltage 520Vac design for worldwide applications
- Multi-stage circuitry
- Space saving, slim, lightweight enclosure
- Safety block or cable output termination options

Mechanical specifications

Manufacture: aluminium enclosure

Connections: R1 - safety terminal block

10mm² solid wire, 6mm² flex wire - 8A, 16A

16mm² solid wire, 10mm² flex wire - 30A, 42A

35mm² solid wire, 25mm² flex wire - 55A, 75A

50mm² solid wire and flex wire - 100A, 130A

W1 - output cable (8A - 55A only)

Filter range

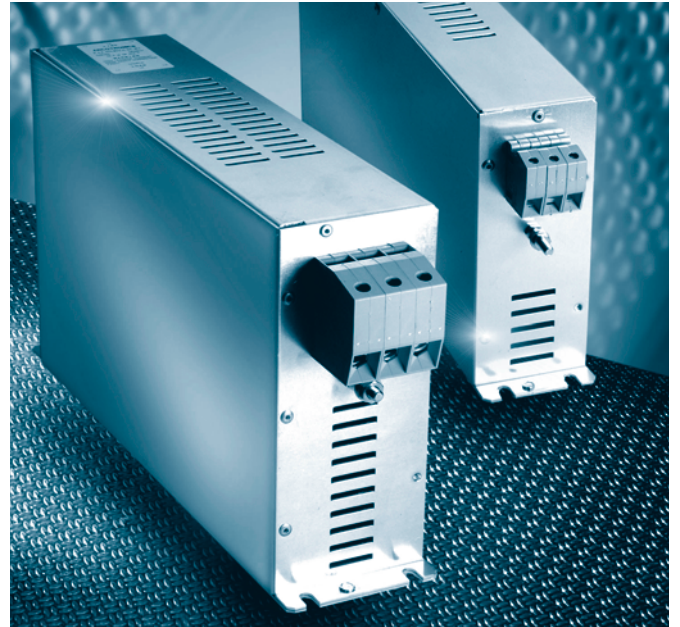
Code	I _R (A)	L (mH)	C _x (μF)	C _y (nF)	R (MΩ)	Circ Diag
F.L.L.D3.008A.SC.*1	8	0.5	9x1	6x110	3x0.33 + 1x0.62	A
F.L.L.D3.016A.SC.*1	16	0.5	9x1	6x110	3x0.33 + 1x0.62	A
F.L.L.D3.030A.SC.*1	30	0.5	9x1	6x110	3x0.33 + 1x0.62	A
F.L.L.D3.042A.SC.*1	42	0.5	9x1	6x110	3x0.33 + 1x0.62	A
F.L.L.D3.055A.SC.*1	55	0.27	9x2.2	6x110	3x0.33 + 1x0.62	B
F.L.L.D3.075A.SC.R1	75	0.27	9x2.2	6x110	3x0.33 + 1x0.62	B
F.L.L.D3.100A.SC.R1	100	0.27	9x2.2	6x110	3x0.33 + 1x0.62	B
F.L.L.D3.130A.SC.R1	130	0.27	3x1.5 + 6x3.7	6x110	3x0.33 + 1x0.62	C

* = R - Safety Terminal Block or W - Output Cable

Dimensions

Code	8A	16A	30A	42A	55A	75A	100A	130A
A	255	305	335	329	329	329	379	439
B	126	142	150	185	185	220	220	240
C	50	55	60	70	80	80	90	110
D	225	275	305	300	300	300	350	400
E	240	290	320	314	314	314	364	414
F	25	30	35	45	55	55	65	80
G	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
H	300	300	400	500	500			
J	2	2	2	3	3	3	3	6
L	9	9	9	12	12			
O	M5	M5	M5	M6	M6	M6	M10	M10
P♦	16	14	10	8	6			

♦ AWG sizes, tri-rated cable



Electrical specifications

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

Rated current (I_R): referred to 50°C

Leakage current (I_L): normal condition: <3mA

fault condition: 82mA max @ 520Vac 50 Hz

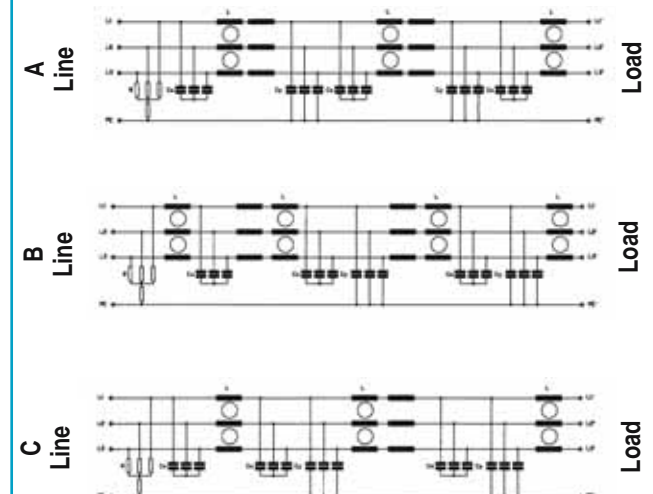
Voltage test (2s.): line to ground 3470 Vdc

line to line 1700 Vdc

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

temperature range: -25°C to +100°C

Circuit diagrams



Approvals Made in accordance to VDE, UL and CSA requirements

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