

FCD Series



UL Recognized



FCD10

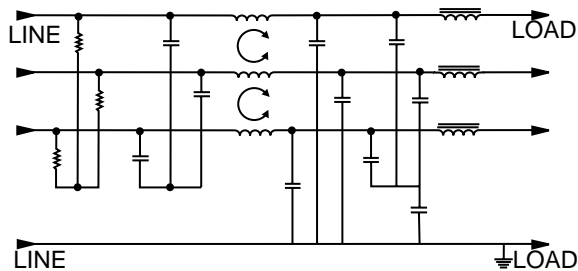
FCD Series

The FCD filters provide three phase filtering for frequency inverters and variable speed motor drives. Designed for very noisy Delta applications, they attenuate conducted interference at low and high frequency ranges and better protect programmable logic controllers from RF noise on the AC power line. These filters perform best when installed on the line side of the motor drive. The FCD filters better prevent noise from returning to the line, enabling equipment to meet strict European regulations on RFI.

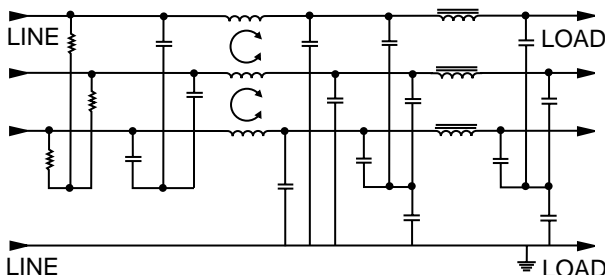
Suited for field wiring applications, these filters are ideal for EMC troubleshooting and field refurbishing. The FCD filters feature side flanges for easy mounting and DIN type terminals which eliminate live metal parts, allowing safer and easier connection. They could also be sold as an accessory to motor drives marketed into Europe.

Electrical Schematics

6 Amp



16, 25, 36 & 50 Amps



Resistor location for reference only.

Specifications

Maximum leakage current, each line-to-ground

	6 Amps	50 Amps
@ 120 VAC 60 Hz:	2.9 mA	5.7 mA
@ 250 VAC 50 Hz:	4.9 mA	9.8 mA

Hipot rating (one minute):

line-to-ground	2250 VDC
line-to-line	1450 VDC

Operating frequency:

50/60 Hz

Rated voltage (max.):

480 VAC phase-to-phase
277 VAC phase-to-neutral/ground

Rated current:

6FCD	6A
16FCD	16A
25FCD	25A
36FCD	36A
50FCD	50A

Minimum insertion loss in dB:

Line-to-ground in 50 ohm circuit

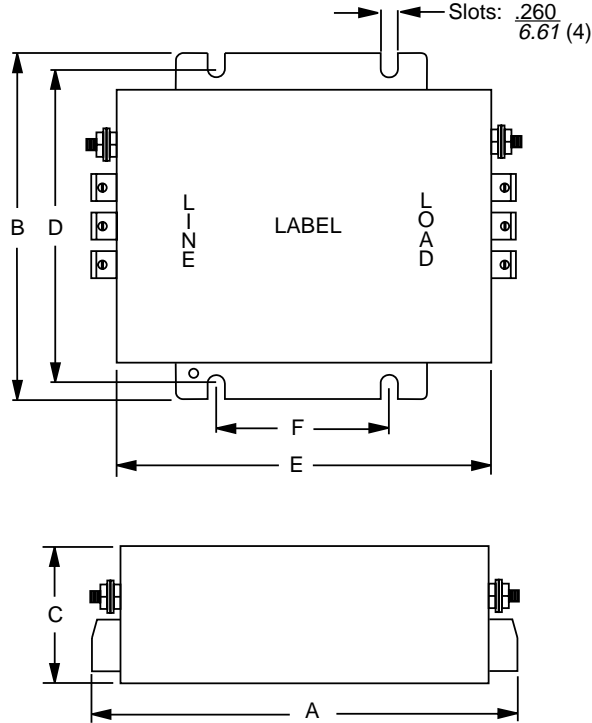
Current Rating	Frequency-MHz								
	.01	.03	.05	.1	.5	1	5	10	30
6A	2	14	23	39	56	52	48	45	33
16A	13	30	36	45	75	75	52	45	35
25A	13	30	36	45	75	75	52	45	35
36A	9	26	32	40	75	75	52	45	35
50A	9	26	32	40	75	75	52	45	35

Line-to-line in 50 ohm circuit

Current Rating	Frequency-MHz								
	.01	.03	.05	.1	.5	1	5	10	30
6A	9	8	24	40	62	57	50	48	38
16A	9	13	24	55	75	75	75	65	60
25A	9	13	26	55	75	75	75	65	60
36A	9	13	26	46	75	75	75	65	60
50A	9	13	26	46	75	75	75	65	60

FCD Series

Case Styles



6FCD10, 16FCD10

PHOENIX CONTACT VDFK4
 Accepts 10 AWG solid wire, 12 AWG stranded wire
 Torque Spec: 5.5 - 7.0 in.lb

25FCD10, 36FCD10

PHOENIX CONTACT VDFK6
 Accepts 8 AWG solid wire, 10 AWG stranded wire
 Torque Spec: 13.5 - 16 in.lb

50FCD10

PHOENIX CONTACT HDFK10-VP
 Accepts 6 AWG solid wire, 8 AWG stranded wire
 Torque Spec: 13.5 - 16 in.lb

Note: Terminals No. 8-32 (2)

Case Dimensions

Part No.	A (max)	B (max)	C (max)	D (max)	E (max)	F (max)
6FCD10	6.00 152.4	4.30 109.2	2.30 58.4	3.74 95.0	5.15 128.3	2.756 70.0
16FCD10	7.20 182.9	5.48 139.2	2.55 64.8	4.92 124.97	5.94 150.9	2.756 70.0
25FCD10	9.69 246.1	6.30 160.0	2.55 64.8	5.71 145.0	8.46 215.0	4.528 115.01
36FCD10	9.69 246.1	6.30 160.0	2.55 64.8	5.71 145.0	8.46 215.0	4.528 115.01
50FCD10	10.5 266.7	6.30 160.0	2.54 64.52	5.71 145.0	8.46 215.0	4.528 115.01

Part Numbers

- 6FCD10
- 16FCD10
- 25FCD10
- 36FCD10
- 50FCD10