

UL Recognized

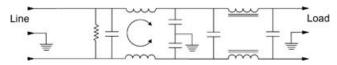
FC Series

The FC filters provide filtering for frequency inverters and variable speed motor drives. Designed for very noisy applications, they attenuate conducted interference at low and high frequency ranges and 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 FC filters prevent noise from returning to the line, enabling equipment to meet strict European regulations on RFI.

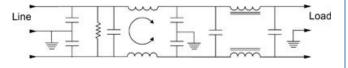
Suited for field wiring applications, these filters are ideal for EMC troubleshooting and field refurbishing. The FC filters feature side flanges for easy mounting and DIN type terminals which eliminate live metal parts, allowing safe and easy connection. The filters could also be sold as an accessory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

Electrical Schematics

6 & 12 Amps



16, 25 & 36 Amps



Resistor location for reference only.



Specifications

Maximum leakage current, each @ 120 VAC 60 Hz: 3.8 mA line-to-ground @ 250 VAC 50 Hz: 6.7 mA Hipot rating (one minute): 2250 VDC line-to-ground line-to-line 1450 VDC Operating frequency: 50/60 Hz Rated voltage: 120/250 VAC @ 120/250 VAC Rated current: 6FC10 5 Amps 12FC10 12 Amps

16 Amps

25 Amps

36 Amps

Minimum insertion loss in dB: Line-to-ground in 50 ohm circuit

16FC10 25FC10

36FC10

Current	Frequency-MHz								
Rating	.01	.03	.05	.1	.5	1	5	10	30
6FC10	9	19	26	37	65	65	50	40	35
12FC10	5	17	25	37	65	65	65	60	35
16FC10	4	15	22	36	65	65	70	70	35
25FC10	2	14	22	36	75	75	70	70	48
36FC10	0	6	14	27	68	75	70	70	50

Line-to-line in 50 ohm circuit

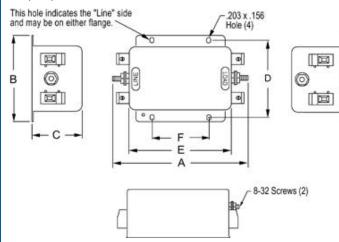
Current	Frequency-MHz								
Rating	.01	.03	.05	.1	.5	1	5	10	30
6FC10	10	10	35	60	75	75	60	50	45
12FC10	14	14	30	51	75	75	75	70	45
16FC10	14	14	29	55	75	75	75	70	45
25FC10	14	14	17	42	75	75	70	70	50
36FC10	14	14	17	42	75	75	70	70	50

Series FC

Case Styles

Metric shown in italics.

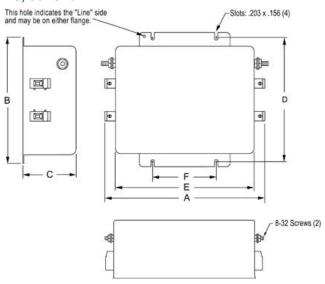
6, 12, 16FC10



6FC10, 12FC10, 16FC10

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

25, 36FC10



25FC10, 36FC10

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

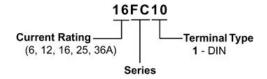
Case Dimensions

Metric shown in italics.

Part No.	A (max)	B (max)	C (max)	D ±.020 ±.51	E (max)	F ±.010 ±.254
6FC10	4.6	3.1 78.7	1.78 45.21	2.677 67.8	3.7	<u>2.0</u> 50.8
12FC10	5.95 151.3	3.96 100.6	2.18 55.4	3.5	<u>4.53</u> 114.8	<u>2.0</u> 50.8
16FC10	5.95 151.3	3.96 100.6	<u>2.18</u> 55.4	3.5 88.9	<u>4.53</u> 114.8	<u>2.0</u> 50.8
25FC10	6.9 175.3	5.48 139.2	2.55 64.77	4.9	5.94 150.9	2.756 70.0
36FC10	6.9 175.3	5.48 139.2	2.55 64.77	4.9 124.5	5.94 150.9	2.756

Ordering Information

Consult your local Corcom sales representative for pricing.



Available Part Numbers

6FC10 12FC10 16FC10 25FC10 36FC10