



# CORCOM High Current AC Power Line Filters

Broad line of single and three phase products



Our commitment. Your advantage.

## Key Features

30 - 400A current rating

Delta or WYE configuration for three phase products

Safety agency approvals - see chart

Voltage Ratings up to 250 V (single phase)

Voltage Ratings 277/480 V and 250/440 V (three phase)



## DESCRIPTION

Tyco Electronics Corcom brand products has added to our offering of high current (over 30 amps) power line filters. These filters are designed to meet demanding performance requirements of high current applications by providing high insertion loss over a wide frequency range. Low leakage current models are available.

## APPLICATIONS

- Factory Automation
- HVAC Systems
- Heavy Equipment
- Packaging Equipment
- Motors
- Food Processing Equipment
- Elevators
- General Purpose and Clean Up Applications
- Motor Controllers
- Frequency Converters

**PRODUCT OFFERING & PART NUMBERS**

				Insertion Loss						
				Line to Ground (dB)			Line to Line (dB)			
Part Number	Wiring	Current Rating	Rated Voltage (max.) Phase-Neutral/Phase-Phase	MHz			MHz			Safety Agency Approvals
				0.1	1	30	0.1	1	30	
<b>SINGLE PHASE FILTERS</b>										
<b>EMC Series</b>										
30EMC6	Single phase	30	250	14	47	43	14	62	26	UL, CSA, VDE
<b>FC Series</b>										
36FC10	Single phase	36	250	27	75	50	42	75	50	UL
<b>K Series</b>										
30VK6	Single phase	30	250	8	28	50	2	60	55	UL, CSA, VDE
30VK6C	Single phase	30	250	8	28	50	2	60	55	UL, CSA, VDE
40VK6	Single phase	40	250	5	28	50	6	60	55	UL, CSA, VDE
40VK6C	Single phase	40	250	5	28	50	6	60	55	UL, CSA, VDE
60VK6	Single phase	60	250	3	28	35	2	67	53	UL, CSA, VDE
<b>SK Series</b>										
30VSK6	Single phase	30	250	14	31	39	13	60	43	UL, CSA, VDE
30VSK6C	Single phase	30	250	14	31	39	13	60	43	UL, CSA, VDE
30ESK6	Single phase	30	250	15	31	36	12	60	43	UL, CSA, VDE
30ESK6C	Single phase	30	250	15	31	36	12	60	43	UL, CSA, VDE
40VSK6	Single phase	40	250	18	43	30	13	60	43	UL, CSA, VDE
<b>S Series (NEW)</b>										
60VS6	Single phase	60	250	3	34	40	14	93	54	UL, CSA, VDE

				Insertion Loss						
				Line to Ground (dB)			Line to Line (dB)			
Part Number	Wiring	Current Rating	Rated Voltage (max.) Phase-Neutral/Phase-Phase	MHz			MHz			Safety Agency Approvals
				0.1	1	30	0.1	1	30	
<b>3 PHASE FILTERS</b>										
<b>A Series</b>										
30AYP6C	WYE or Delta	30	250/440	24	55	50	28	65	48	UL, CSA, VDE
45AYP6C	WYE or Delta	45	250/440	19	49	45	36	75	50	UL, CSA, VDE
60AYP6C	WYE or Delta	60	250/440	16	50	47	37	75	45	UL, CSA, VDE
30AYT6C	WYE or Delta	30	250/440	53	75	60	46	75	70	UL, CSA, VDE
45AYT6C	WYE or Delta	45	250/440	36	75	50	41	75	65	UL, CSA, VDE
60AYT6C	WYE or Delta	60	250/440	37	75	45	50	75	60	UL, CSA, VDE
<b>AYA Series</b>										
36AYA6A	WYE or Delta	36	250/440	18	54	32	36	78	35	UL
50AYA6A	WYE or Delta	50	250/440	14	47	29	38	82	38	UL

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Part Number	Wiring	Current Rating	Rated Voltage (max.) Phase-Neutral/Phase-Phase	Insertion Loss						Safety Agency Approvals
				Line to Ground (dB)			Line to Line (dB)			
				MHz			MHz			
				0.1	1	30	0.1	1	30	
<b>3 PHASE FILTERS (cont)</b>										
<b>ADT Series</b>										
63ADT6	Delta	63	277/480	85	95	100	100	100	100	UL
63ADT6S	Delta	63	277/480	45	90	90	100	100	100	UL
100ADT6	Delta	100	277/480	85	90	100	100	100	100	UL
100ADT6S	Delta	100	277/480	60	95	100	100	100	100	UL
160ADT6	Delta	160	277/480	80	90	100	100	100	100	UL
160ADT6S	Delta	160	277/480	58	85	100	100	100	100	UL
200ADT6	Delta	200	277/480	77	88	100	100	100	100	UL
200ADT6S	Delta	200	277/480	54	80	100	100	100	100	UL
<b>AYC Series</b>										
36AYC10B	WYE or Delta	36	277/480	78	91	7	51	87	17	UL
63AYC10B	WYE or Delta	63	277/480	72	86	4	41	77	43	UL
80AYC10B	WYE or Delta	80	277/480	66	85	8	40	74	37	UL
110AYC10B	WYE or Delta	110	277/480	60	84	12	39	72	31	UL
150AYC10B	WYE or Delta	150	277/480	55	82	11	42	66	31	UL
150AYC10B-95	WYE or Delta	150	277/480	57	79	7	42	67	30	UL
180AYC10B	WYE or Delta	180	277/480	55	89	20	50	64	26	UL
<b>BCF Series (NEW)</b>										
30BCF10	Delta	30	277/480	58	74	18	49	78	46	UL, VDE, ENEC
42BCF10	Delta	42	277/480	52	72	18	50	69	40	UL, VDE, ENEC
55BCF10	Delta	55	277/480	58	67	12	51	71	31	UL, VDE, ENEC
75BCF10	Delta	75	277/480	53	70	15	50	72	35	UL, VDE, ENEC
100BCF10	Delta	100	277/480	50	67	15	47	78	34	UL, VDE, ENEC
130BCF10	Delta	130	277/480	48	67	15	38	64	30	UL, VDE, ENEC
180BCF10	Delta	180	277/480	49	61	15	42	60	30	UL, VDE, ENEC
<b>CFN Series (NEW)</b>										
400CFN12	Delta	400	277/480	40	76	20	55	57	20	UL
<b>FCD Series (NEW)</b>										
36FCD10	Delta	36	277/480	40	75	32	46	75	60	UL
36FCD10B	Delta	36	277/480	76	80	32	44	91	39	UL
50FCD10	Delta	50	277/480	40	75	35	46	75	60	UL
50FCD10B	Delta	50	277/480	73	80	51	27	84	63	UL
80FCD10B	Delta	80	277/480	68	63	30	36	73	45	UL
110FCD10B	Delta	110	277/480	70	67	21	36	70	40	UL
150FCD10B	Delta	150	277/480	71	69	17	36	73	38	UL
180FCD10B	Delta	180	277/480	72	70	12	36	73	38	UL
230FCD10B	Delta	230	277/480	64	76	35	42	70	41	UL



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### SERIES SUMMARY:

#### **Single Phase High Current AC Power Line Filters**

##### **EMC Series:**

Designed to address the need for more differential mode attenuation in the lower frequency range while still maintaining high common mode performance. This type of performance is typically needed for motor drives and switch mode power supplies with increased operating frequencies.

##### **FC Series:**

The FC filters provide filtering for frequency inverters and variable speed motor drives. Suited for field wiring applications, these filters are ideal for EMC troubleshooting and field refurbishing.

##### **K Series:**

General purpose common-mode and differential mode filters particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present.

##### **SK Series:**

The SK series filters use significantly higher element values than general purpose filters, making them better suited for equipment with line-to-ground and line-to-line conducted emissions, including switch mode power supplies.

##### **S Series:**

Filters designed for use when equipment impedance at RF frequencies is high. These filters will better protect equipment from malfunctions due to conducted interference coming into equipment from the line, especially line-to-line noise and transients.

#### **Three Phase High Current AC Power Line Filters**

##### **A Series:**

Mid- and high-level differential and common mode filtering for balanced or unbalanced three phase loads. Effective filtering for each of the three lines plus the neutral and ground lines.

##### **AYA Series:**

Cost effective filters that help protect electronics equipment in industrial applications such as uninterruptible power supplies and industrial control systems.

##### **ADT Series:**

Designed with very high insertion loss for Delta applications, these three phase filters work well in industrial applications to bring high current motor drives into compliance with the European EMC directives. It is available with common or differential mode coils for the correct protection to fit the application.

##### **AYC Series:**

The AYC series filters are designed for 3-phase, four-wire, WYE wiring applications. Filtering up to 180 amps for use in 3-phase, noisy industrial applications such as frequency converters.

##### **BCF Series:**

Compact, lightweight "bookform" filters ideal for applications requiring very high attenuation in the frequency range between 100 kHz and 30 MHz.

##### **CFN Series:**

Universal, 3-phase power line filter for high current applications. The CFN series is ideal for electrical equipment in factory automation systems, HVAC systems, heavy industrial machinery, packaging machinery, motors and other three-phase power applications.

##### **FCD Series:**

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. The FCD filters better prevent noise from returning to the line, enabling equipment to meet strict European RFI regulations.

Note: Customized solutions designed to meet specific application requirements are also available.

## FOR MORE INFORMATION

### Technical Support

CORCOM Phone: 1-847-573-6597  
Internet: [www.corcom.com](http://www.corcom.com)  
E-mail: [corcomtechhelp@tycoelectronics.com](mailto:corcomtechhelp@tycoelectronics.com)

### General Support

USA Customer Service: 1-800-468-2023  
E-mail: [newproducts@tycoelectronics.com](mailto:newproducts@tycoelectronics.com)  
Customer Service email: [cust.service@tycoelectronics.com](mailto:cust.service@tycoelectronics.com)

WIRE & CABLE EMI/RFI FILTERS CIRCUIT BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING  
PCB & CABLE ASSEMBLIES RELAYS TOOLING SENSORS SWITCHES CONTACTORS CONNECTORS WIRE &  
CABLE EMI/RFI FILTERS CIRCUIT BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB  
& CABLE ASSEMBLIES RELAYS TOOLING SENSORS SWITCHES CONTACTORS CONNECTORS WIRE & CABLE  
EMI/RFI FILTERS CIRCUIT BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB & CABLE  
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ASSEMBLIES RELAYS TOOLING SENSORS SWITCHES CONTACTORS CONNECTORS WIRE & CABLE EMI/RFI  
FILTERS CIRCUIT BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB & CABLE ASSEMBLIES  
RELAYS TOOLING SENSORS SWITCHES CONTACTORS CONNECTORS WIRE & CABLE EMI/RFI FILTERS CIRCUIT  
BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB & CABLE ASSEMBLIES RELAYS  
TOOLING SENSORS SWITCHES CONTACTORS CONNECTORS WIRE & CABLE EMI/RFI FILTERS CIRCUIT BREAKERS  
HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB & CABLE ASSEMBLIES RELAYS TOOLING SENSORS  
SWITCHES CONTACTORS CONNECTORS WIRE & CABLE EMI/RFI FILTERS CIRCUIT BREAKERS HARNESSING &  
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