



## Introducing Corcom High Current AC Power Line Filters

TE Connectivity has expanded the Corcom product line of single and 3-Phase high current (over 30A) power line filters. These filters offer current ratings up to 600A and voltage ratings to 480VAC. These filters are designed to meet the demanding performance requirements of high current applications by providing high insertion loss over a wide frequency range with either standard or low leakage current models.





## KEY FEATURES

- Current Rating from 30 to 600A
- Delta or WYE configuration for 3-Phase products
- Safety agency approvals - see chart for details
- Voltage ratings up to 250V for single phase products
- Voltage ratings up to 277/480V and 250/440V for 3-phase products
- RoHS Compliant

## STANDARDS AND SPECIFICATIONS



- UL Recognized
- CSA Certified
- VDE Approved
- ENEC Certified

*Agency approvals vary by product, refer to product offering chart for details*

## APPLICATIONS

- Alternative Energy and Solar
- Factory automation
- HVAC systems
- Heavy equipment
- Packaging equipment
- Motors and motor controllers
- Frequency converters
- Food processing equipment
- Elevators & escalators

## CUSTOM SOLUTIONS AND TESTING CAPABILITIES

TE's custom capabilities range from modifications of many of our thousands of existing products to unique custom designed solutions to meet application requirements. Our experienced design teams work closely with our customers' engineering personnel, either on-site or remotely, to design advanced products that meet exact system requirements.

Customization can include:

- Mechanical size or mounting changes
- Unique voltage requirements
- Extremely high current applications up to 2500A
- Unique designs for alternative energy and solar applications

The customization and development program also includes in-house product testing in our own R&D laboratories.

Test capabilities can include:

- Conducted EMI in accordance with FCC part 15 and 18
- EN55011, EN55022 and EN55014
- EFT (Electrically Fast Transient) in accordance with EN61000-4-4
- Tests conducted up to 30A with insertion loss measured up to 10GHz
- MIL-STD-461 CE101 & CE102

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## SINGLE PHASE HIGH CURRENT AC POWER LINE FILTERS

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### 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. Available in dual stage or single stage (B) versions.

### K Series

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

### 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.

### SB Series

Enhanced performance versions of the B Series RFI filters with reduced size and enhanced performance for high impedance loads. Low leakage version available that meets current requirements of VDE portable equipment for medical applications.

### 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.

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## 3-PHASE HIGH CURRENT AC POWER LINE FILTERS

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### A Series

Mid- and high-level differential and common mode filtering for balanced or unbalanced 3-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 3-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 3-Phase power applications. Available in current ratings from 300A to 600A.

### 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.

## SINGLE PHASE FILTER OFFERING

Part Number	Wiring	Current Rating	Rated Voltage	Insertion Loss Line to Ground (dB)			Insertion Loss Line to Line (dB)			Agency Approvals
				0.1Mhz	1Mhz	30Mhz	0.1Mhz	1Mhz	30Mhz	
<b>EMC Series</b>										
30EMC6	Single phase	30A	250VAC	14	47	43	14	62	26	UL, CSA, VDE
<b>FC Series</b>										
36 / 50FC10	Single phase	36/50A	250VAC	27	75	50	42	75	50	UL, VDE (36A Only)
36 /50FC10B	Single Phase	36/50A	250VAC	49	75	50	42	82	55	
<b>K Series</b>										
30VK6	Single phase	30A	250VAC	8	28	50	2	60	55	UL, CSA, VDE
30VK6C	Single phase	30A	250VAC	8	28	50	2	60	55	UL, CSA, VDE
40VK6	Single phase	40A	250VAC	5	28	50	6	60	55	UL, CSA, VDE
40VK6C	Single phase	40A	250VAC	5	28	50	6	60	55	UL, CSA, VDE
60VK6	Single phase	60A	250VAC	3	28	35	2	67	53	UL, CSA, VDE
<b>S Series</b>										
60VS6	Single phase	60A	250VAC	3	34	40	14	93	54	UL, CSA, VDE
<b>SB Series (NEW)</b>										
30ESB6	Single phase	60A	250VAC	13	34	58	25	46	70	UL, CSA, VDE
30VSB6	Single phase	60A	250VAC	13	45	42	25	39	66	UL, CSA, VDE
<b>SK Series</b>										
30ESK6	Single phase	30A	250VAC	15	31	36	12	60	43	UL, CSA, VDE
30ESK6C	Single phase	30A	250VAC	15	31	36	12	60	43	UL, CSA, VDE
30VSK6	Single phase	30A	250VAC	14	31	39	13	60	43	UL, CSA, VDE
30VSK6C	Single phase	30A	250VAC	14	31	39	13	60	43	UL, CSA, VDE
40VSK6	Single phase	40A	250VAC	18	43	30	13	60	43	UL, CSA, VDE

## 3-PHASE FILTER OFFERING

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

3-PHASE FILTER OFFERING *(continued)*

Part Number	Wiring	Current Rating	Rated Voltage	Insertion Loss Line to Ground (dB)			Insertion Loss Line to Line (dB)			Agency Approvals
				0.1Mhz	1Mhz	30Mhz	0.1Mhz	1Mhz	30Mhz	
<b>ADT Series</b>										
63ADT6	Delta	63A	277/480VAC	85	95	100	100	100	100	UL
63ADT6S	Delta	63A	277/480VAC	45	90	90	100	100	100	UL
100ADT6	Delta	100A	277/480VAC	85	90	100	100	100	100	UL
100ADT6S	Delta	100A	277/480VAC	60	95	100	100	100	100	UL
160ADT6	Delta	160A	277/480VAC	80	90	100	100	100	100	UL
160ADT6S	Delta	160A	277/480VAC	58	85	100	100	100	100	UL
200ADT6	Delta	200A	277/480VAC	77	88	100	100	100	100	UL
200ADT6S	Delta	200A	277/480VAC	54	80	100	100	100	100	UL
<b>AYC Series</b>										
36AYC10B	WYE or Delta	36A	277/480VAC	78	91	7	51	87	17	UL
63AYC10B	WYE or Delta	63A	277/480VAC	72	86	4	41	77	43	UL
80AYC10B	WYE or Delta	80A	277/480VAC	66	85	8	40	74	37	UL
110AYC10B	WYE or Delta	110A	277/480VAC	60	84	12	39	72	31	UL
150AYC10B	WYE or Delta	150A	277/480VAC	55	82	11	42	66	31	UL
150AYC10B-95	WYE or Delta	150A	277/480VAC	57	79	7	42	67	30	UL
180AYC10B	WYE or Delta	180A	277/480VAC	55	89	20	50	64	26	UL
<b>BCF Series</b>										
30BCF10	Delta	30A	277/480VAC	58	74	18	49	78	46	UL, VDE, ENEC
42BCF10	Delta	42A	277/480VAC	52	72	18	50	69	40	UL, VDE, ENEC
55BCF10	Delta	55A	277/480VAC	58	67	12	51	71	31	UL, VDE, ENEC
75BCF10	Delta	75A	277/480VAC	53	70	15	50	72	35	UL, VDE, ENEC
100BCF10	Delta	100A	277/480VAC	50	67	15	47	78	34	UL, VDE, ENEC
130BCF10	Delta	130A	277/480VAC	48	67	15	38	64	30	UL, VDE, ENEC
180BCF10	Delta	180A	277/480VAC	49	61	15	42	60	30	UL, VDE, ENEC
<b>CFN Series</b>										
300CFN12	Delta	300A	277/480VAC	40	76	20	55	57	20	
400CFN12	Delta	400A	277/480VAC	40	76	20	55	57	20	UL
600CFN12	Delta	600A	277/480VAC	40	76	20	55	57	20	
<b>FCD Series</b>										
36FCD10	Delta	36A	277/480VAC	40	75	32	46	75	60	UL
36FCD10B	Delta	36A	277/480VAC	76	80	32	44	91	39	UL
50FCD10	Delta	50A	277/480VAC	40	75	35	46	75	60	UL
50FCD10B	Delta	50A	277/480VAC	73	80	51	27	84	63	UL
80FCD10B	Delta	80A	277/480VAC	68	63	30	36	73	45	UL
110FCD10B	Delta	110A	277/480VAC	70	67	21	36	70	40	UL
150FCD10B	Delta	150A	277/480VAC	71	69	17	36	73	38	UL
180FCD10B	Delta	180A	277/480VAC	72	70	12	36	73	38	UL
230FCD10B	Delta	230A	277/480VAC	64	76	35	42	70	41	UL

## FOR MORE INFORMATION

corcom.com

### TE Technical Support Center

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Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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