



WIRE & CABLE EMI/RFI FILTERS
PCB & CABLE ASSEMBLIES
CABLE EMI/RFI FILTERS
& 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 & PROTECTION IDENTIFICATION & LABELING PCB & CABLE ASSEMBLIES RELAYS
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Introducing
CORCOM High Current AC Power Line Filters
Broad line of single and three phase products

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 | |
| SINGLE PHASE FILTERS | | | | | | | | | | |
| EMC Series | | | | | | | | | | |
| 30EMC6 | Single phase | 30 | 250 | 14 | 47 | 43 | 14 | 62 | 26 | UL, CSA, VDE |
| FC Series | | | | | | | | | | |
| 36FC10 | Single phase | 36 | 250 | 27 | 75 | 50 | 42 | 75 | 50 | UL |
| K Series | | | | | | | | | | |
| 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 |
| SK Series | | | | | | | | | | |
| 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 |
| S Series (NEW) | | | | | | | | | | |
| 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 | |
| 3 PHASE FILTERS | | | | | | | | | | |
| A Series | | | | | | | | | | |
| 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 |
| AYA Series | | | | | | | | | | |
| 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 |

CORCOM High Current AC Power Line Filters

Broad line of single and three phase products

PRODUCT OFFERING & PART NUMBERS

| 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 | | | | | |
| 3 PHASE FILTERS (cont) | | | | | | | | | | |
| ADT Series | | | | | | | | | | |
| 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 |
| AYC Series | | | | | | | | | | |
| 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 |
| BCF Series (NEW) | | | | | | | | | | |
| 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 |
| CFN Series (NEW) | | | | | | | | | | |
| 400CFN12 | Delta | 400 | 277/480 | 40 | 76 | 20 | 55 | 57 | 20 | UL |
| FCD Series (NEW) | | | | | | | | | | |
| 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 |



CORCOM High Current AC Power Line Filters

Broad line of single and three phase products

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

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General Support

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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
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RFI FILTERS CIRCUIT BREAKERS HARNESSING & PROTECTION IDENTIFICATION & LABELING PCB & CABLE
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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
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