Table of Contents

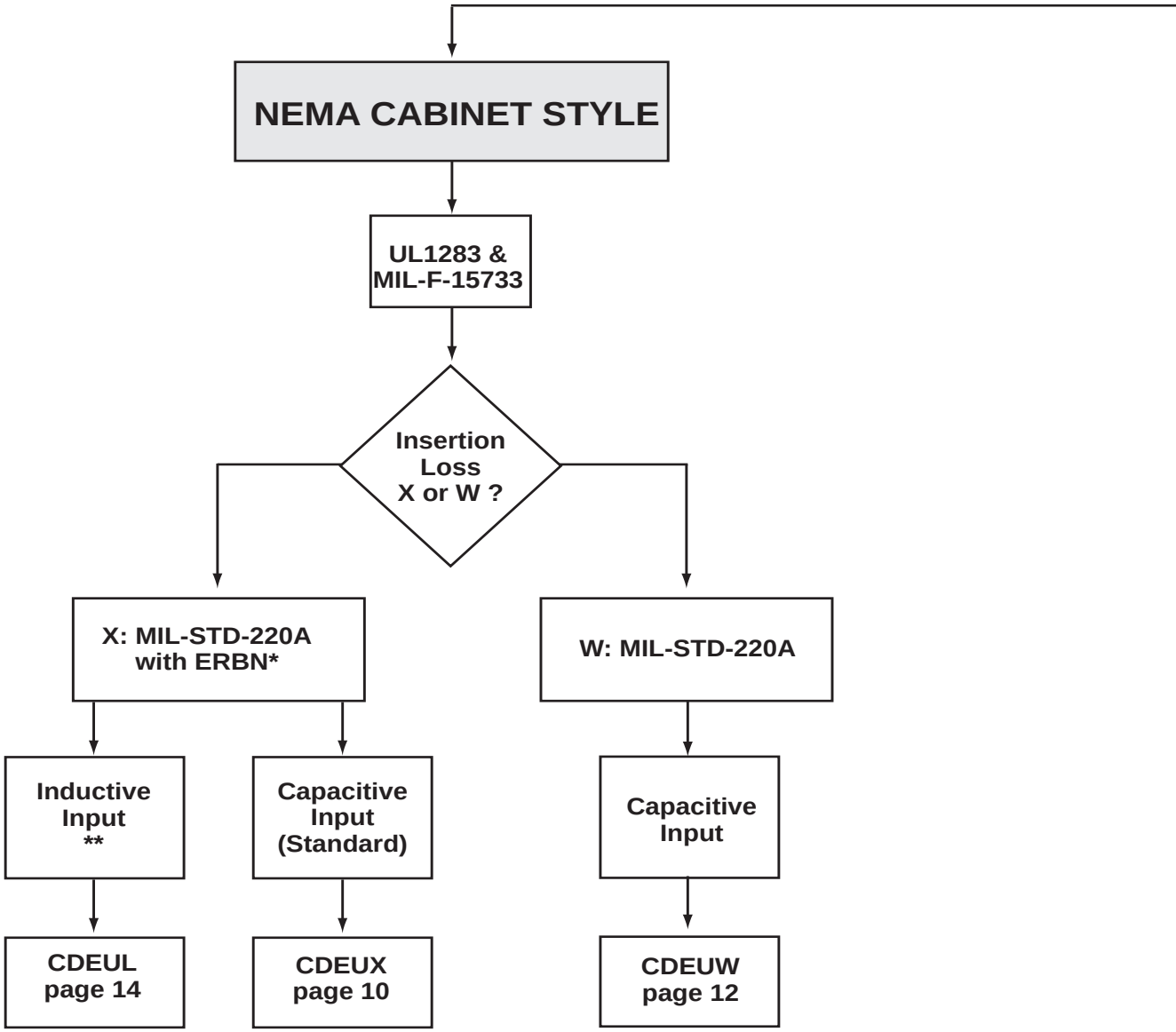
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Facility EMI Filters Selection Guide



*ERBN = Extended Range Buffer Network
** Recommended for HEMP Installations

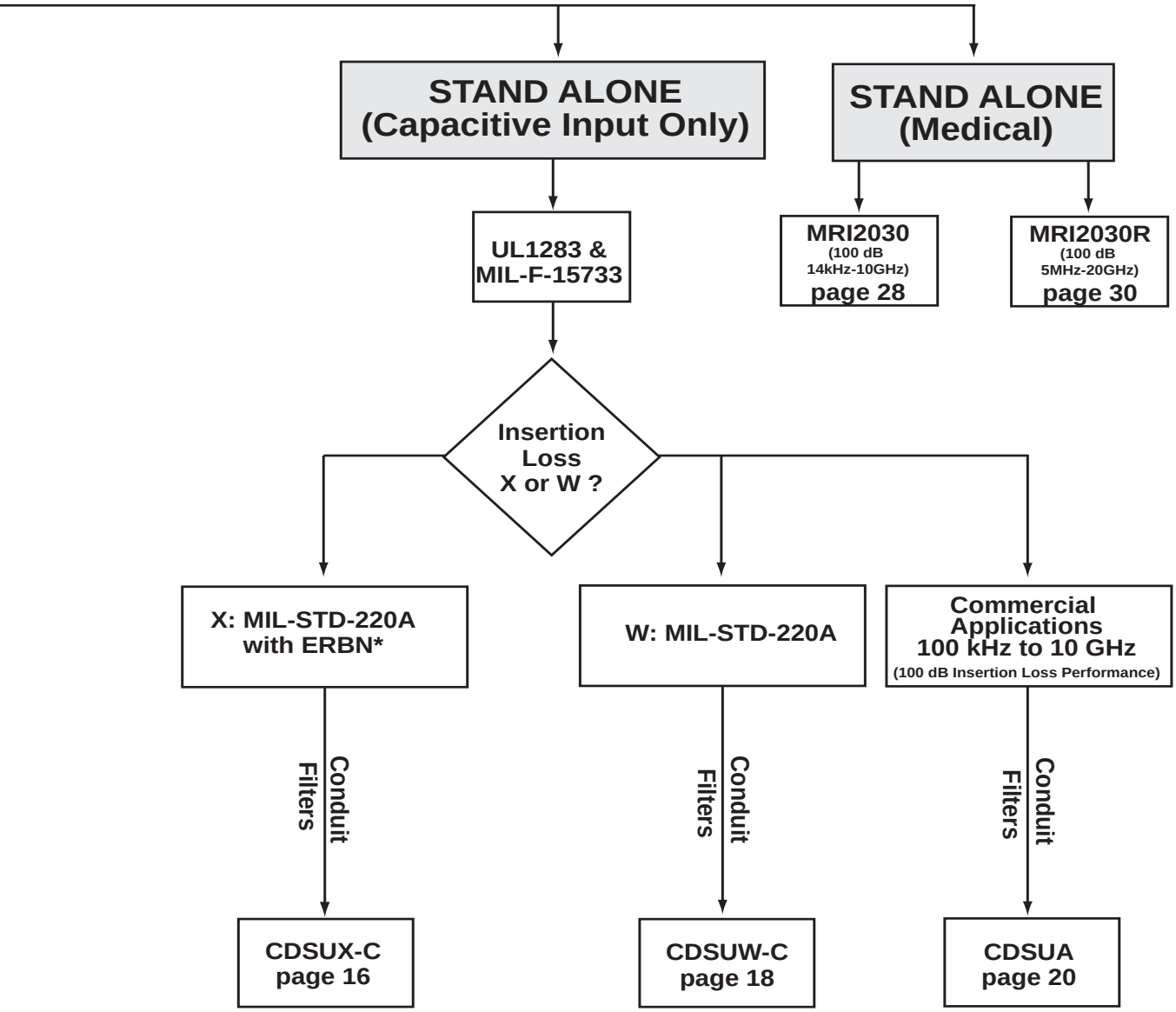
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Facility EMI Filters Selection Guide (Continued)



*ERBN = Extended Range Buffer Network

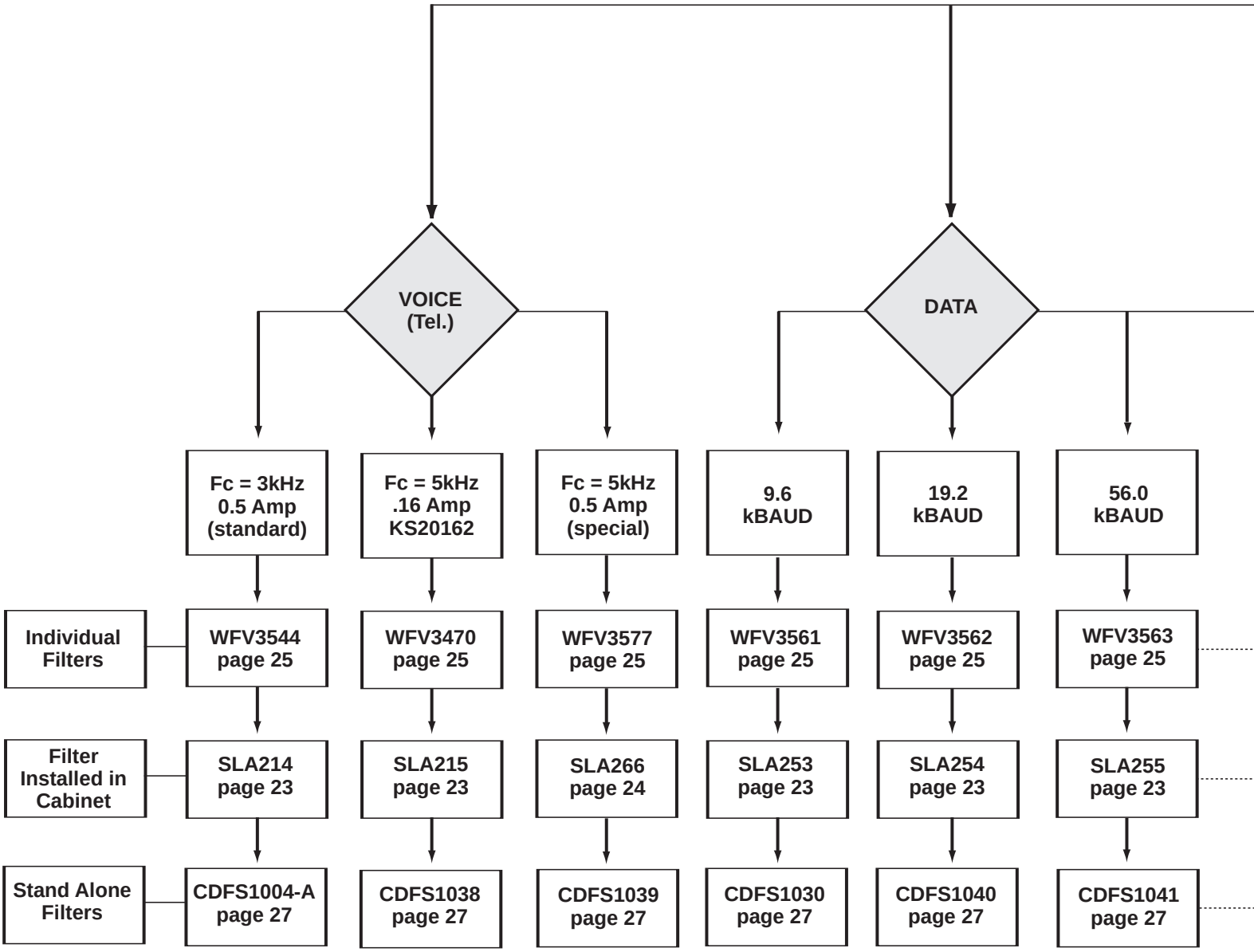
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Signal/Data/Control Filters Selection Guide



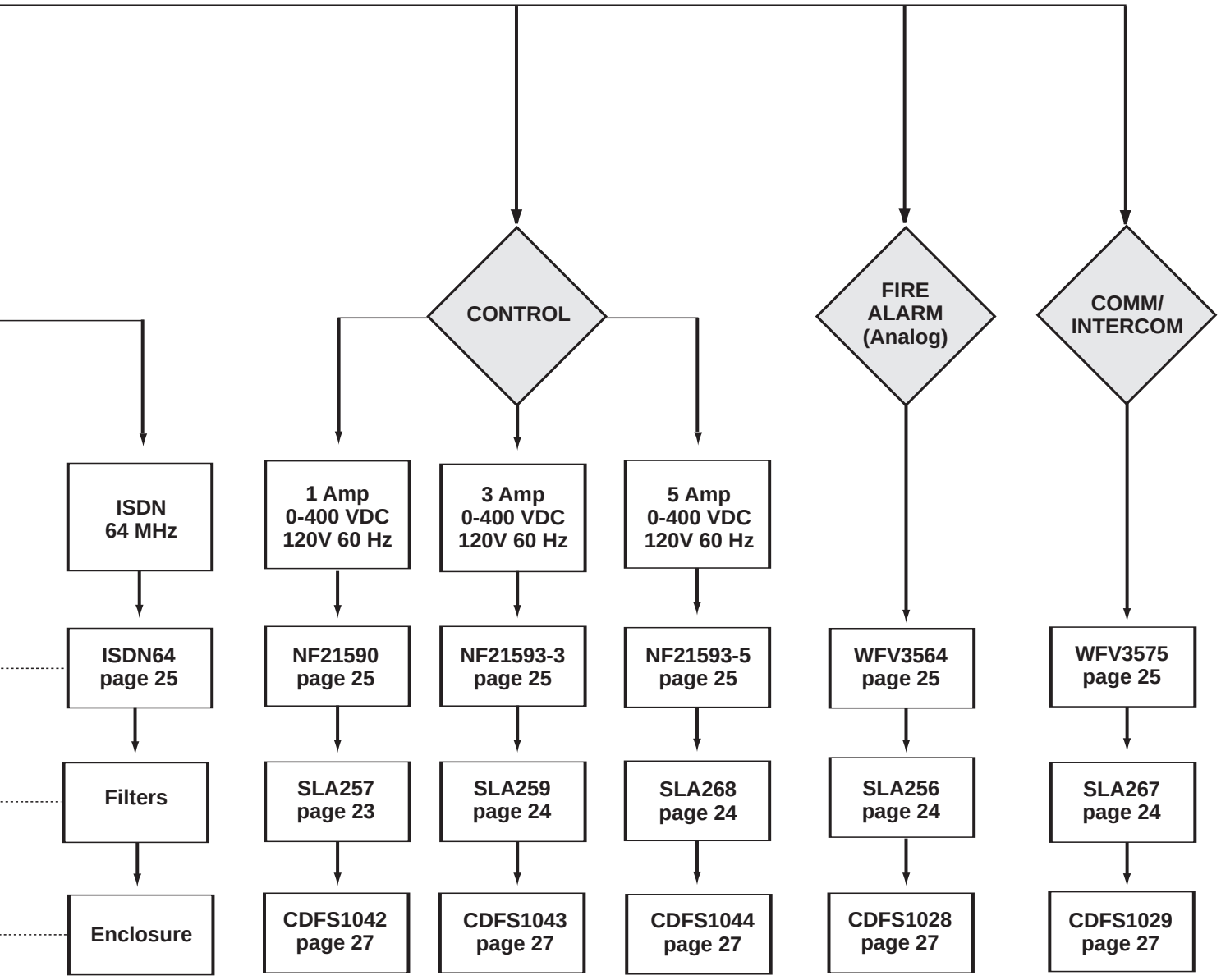
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Signal/Data/Control Filters Selection Guide (Continued)



Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Facility Filter Questions and Answers:

The following are examples of the most commonly asked questions about Tyco Electronics CORCOM Power and Signal Line Filter products.

Although every RF filter installation must be considered according to the user's individual requirements, these general principles apply to a wide range of applications and should prove helpful as an introduction to our product.

Why do I need RF filters for my facility?

CORCOM facility filters have both protective and security functions. Shielded installations and applications involving sensitive measurements or equipment require an environment free from conducted or radiated EMI/RFI emissions.

Facility filters for power, data, telephone and all other signals are used for every electrical penetration in EMI/RFI enclosures to reduce conducted emissions. When the shielded area is sealed, all emissions are reduced or contained.

What is the difference between "W" and "X" styles?

All CORCOM "W" style facility power filters are designed to provide 100 dB from 14 kHz-10.0 GHz when tested per MIL-STD-220A. However, this standard only requires testing under load conditions from 100 kHz – 20 MHz.

The majority of current government programs specify MIL-STD-220A, with the additional specification of under load testing from 14 kHz - 100 kHz. This is due to requirements for sensitive electronic or national security related activities.

A filter for this higher performance application would generally be designated an "X" or "Extended Range Buffer Network" style.

What is the difference between "Enclosure Style" and "Stand-Alone" Filters?

Enclosure style filters consist of removable inserts mounted in a radio frequency secure cabinet. This is the type specified by the U.S. government for a number of important advantages in heavy power and multi-line communications applications.

An enclosure makes for a simplified, single penetration field installation, providing greater RF integrity and simpler filter maintenance.

Stand-alone filters offer the identical levels of filter performance as the enclosure models, but are available with self-enclosed terminals for individual and dual line applications. Penetrations for installation are provided for this type of unit directly from the factory.

What is the difference between MIL-F-15733 and UL-1283 filters?

All CORCOM power filter products are designed to meet MIL-F-15733, which is the general U.S. Military standard for RF filters. UL1283 is an Underwriter's Laboratories requirement for features which are primarily related to safety considerations.

The individual heavy power filters or inserts for both UL and MIL-STD applications are all equipped with oil-filled, hermetically sealed bypass and feed-through capacitors. UL1283 listed models use capacitors which are designed to withstand mandatory high potential factory tests of up to 2,200 volts.

What types of factory tests are performed on the filters?

Tyco Electronics has one of the most comprehensive automated quality assurance programs in the filter industry.

Certified factory test data is available upon request. Filters are factory tested for:

- Insertion Loss
- Voltage Drop, Harmonic Distortion, Terminal Strength, Temperature Rating*
- Dielectric Withstanding Voltage
- D.C. Insulation Resistance
- Current and Overload Ratings*

* Customer requested data

Which are the "input" and "output" sides of the filters?

Unless otherwise specified, CORCOM signal and power filter products are electrically symmetrical. Either side of the unit may be used as "input" or "output" terminal.

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Technical Notes (Continued)

An exception to this general rule is found in enclosure style filter assemblies where only one of the two compartments is secure of "RF-tight". If the filter unit is mounted outside of the shielded area, the secure compartment would be the "output" side. Because the reverse is also true, the non-secure side would be used as the "output" if the filter is mounted inside the shielded room.

Do I need to filter the neutral line for 3-phase/ 4-wire power installations?

All electrical lines entering a shielded area must be filtered to prevent conducted emissions. Even though the neutral conductor may be grounded elsewhere in the installation, this is no guarantee that radiated signals will not induce additional conducted emission.

The neutral filter must also be rated for the full system power levels, since phase imbalances and short-circuit faults can cause substantial currents to flow in the neutral line.

What is the function of Electronic Surge Arrestors?

Although CORCOM filter products are designed for heavy duty use and subjected to rigorous testing requirements, surge currents greater than the design parameters can cause damage to sensitive equipment which is only protected from conducted radio frequency emissions by the filter.

Electronic Surge Arrestors or ESAs limit overvoltage surges and spikes to levels which prevent damage to the user's equipment. ESA installations are also available which are designed for military applications to protect from the effects of electromagnetic pulses caused by nuclear explosions or EMP.

Why do I need filter discharge "bleeder" resistors?

Bleeder resistors drain away any residual charge which may remain across the filter's capacitors when the power is turned off within one minute. The purpose of this feature is to prevent the possibility of harmful electrical shock.

All CORCOM power products above 10 Amperes per phase are equipped with external bleeder resistors.

When are "Power Factor Correction Coils" required?

Power factor correction coils are required for CORCOM products in 400 Hz applications where power levels exceed 25 amperes per phase.

All 400 Hz power filters in heavy power installations draw a high level of reactive current when compared with equivalent 50/60 Hz systems. To counteract this effect, external-mounted inductors can be placed in parallel with the filter's capacitors to provide more efficient operation and are specifically recommended.

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUX Series (Capacitive Input)

Filter Cabinet

- **Modified Nema I, constructed of not less than #14 gauge CRS with galvanized bulkhead**
- **Finish: Blue enamel per FED-STD-595 to all non-conductive surfaces**
- **R. F. Radiation of the shielded (load) compartment shall be greater than 100 dB from 14 kHz to 10 GHz**
- **Front cover access, dual cover design**
- **Prewired standoffs and lugs**
- **Lifting hooks and mounting tabs**
- **Legs for floor mount available**
- **Surge arrestors (optional)**

Individual Filters

- **Hermetically sealed components with welded and/or soldered seams**
- **Constructed of not less than #16 gauge steel with corrosion resistant plating**
- **Bleeder resistor to eliminate shock hazard provided**
- **HEMP surge arrestors provided upon request**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 14 kHz - 10 GHz per MIL-STD-220A, under load condition, using extended range buffer networks over the frequency range of 14 kHz - 20 MHz.

Applicable Publications:

MIL-F-15733 — **Filters, radio interference**
MIL-STD-202F — **Test methods for Components**
MIL-STD-220A — **Test method of Insertion Loss**
MIL-STD-285 —**Test method for Shielding Effectiveness**
NFPA 70-1987 — **National Electric Code**
486A - 1983 — **Wire Connectors and Lug**
UL1283 — **Underwriter Laboratories**

LISTED
6P16

How to Order:

CDEUX 400 225 A6 - S - L

- **L** — Legs
- **S** — Surge Arrestors (optional) [1]
- **A6** — Voltage/Frequency*
- **225** — Current Rating
- **400** — # of Filters
- **CDEUX** — Series

Examples: CDEUX400225A6-S-L, CDEUX400225A6-S, CDEUX400225A6-L, CDEUX400225A6

Note 1:
Surge arrestors A6/A4* - supplied V251BA60
B6 - supplied V481BA60

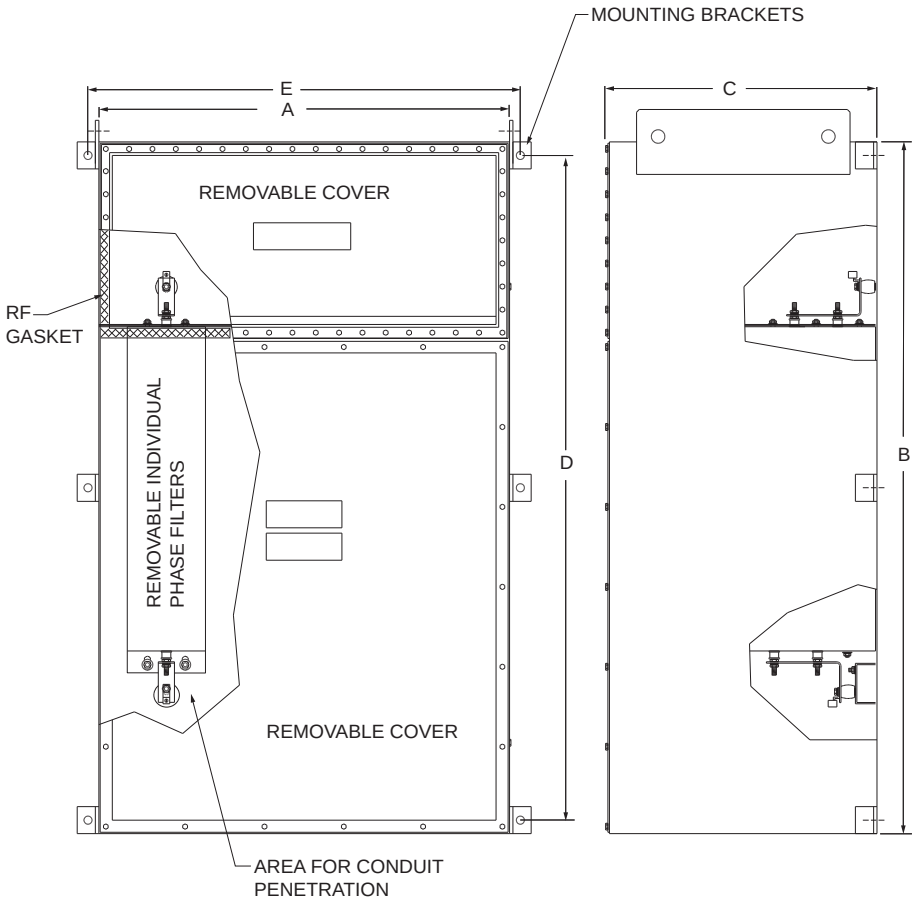
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUX Series (Capacitive Input) (Continued)



Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 10	**14.0**	**30.0**	**6.0**	**22.0**	**16.0**	**95**
	355.6	*762.0*	*152.4*	*558.8*	*406.4*	*43.1*
3 x 10	**20.0**	**30.0**	**6.0**	**22.0**	**22.0**	**100**
	508.0	*762.0*	*152.4*	*558.8*	*558.8*	*45.4*
4 x 10	**26.0**	**30.0**	**6.0**	**22.0**	**28.0**	**120**
	660.4	*762.0*	*152.4*	*558.8*	*711.2*	*54.4*
2 x 30	**16.0**	**38.0**	**8.0**	**26.0**	**18.0**	**170**
	406.4	*965.2*	*203.2*	*660.4*	*457.2*	*77.1*
3 x 30	**23.0**	**38.0**	**8.0**	**26.0**	**25.0**	**240**
	584.2	*965.2*	*203.2*	*660.4*	*635.0*	*108.9*
4 x 30	**30.0**	**38.0**	**8.0**	**26.0**	**32.0**	**300**
	762.0	*965.2*	*203.2*	*660.4*	*812.8*	*136.1*
2 x 60 & 100	**16.0**	**44.0**	**10.0**	**32.0**	**18.0**	**240**
	406.4	*1117.6*	*254.0*	*812.8*	*457.2*	*108.9*
3 x 60 & 100	**23.0**	**44.0**	**10.0**	**32.0**	**25.0**	**310**
	584.2	*1117.6*	*254.0*	*812.8*	*635.0*	*140.6*
4 x 60 & 100	**30.0**	**44.0**	**10.0**	**32.0**	**32.0**	**400**
	762.0	*1117.6*	*254.0*	*812.8*	*812.8*	*181.4*
2 x 150	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**320**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*145.1*
3 x 150	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**430**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*195.0*
4 x 150	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**650**
	762.0	*1371.6*	*355.6*	*1066.8*	*812.8*	*294.8*

Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 225	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**380**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*172.4*
3 x 225	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**520**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*235.9*
4 x 225	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**700**
	762.0	*1371.6*	*355.5*	*1066.8*	*812.8*	*317.5*
2 x 300 & 400	**22.0**	**64.0**	**26.0**	**61.5**	**24.0**	**800**
	558.8	*1625.6*	*660.4*	*1562.1*	*609.6*	*362.9*
3 x 300 & 400	**30.0**	**64.0**	**26.0**	**61.5**	**32.0**	**1100**
	762.0	*1625.6*	*660.4*	*1562.1*	*812.8*	*498.9*
4 x 300 & 400	**38.0**	**64.0**	**26.0**	**61.5**	**40.0**	**1400**
	965.2	*1625.6*	*660.4*	*1562.1*	*1016.0*	*635.0*
2 x 600 & 800	**38.0**	**70.0**	**26.0**	**67.5**	**40.0**	**1400**
	965.2	*1778.0*	*660.4*	*1714.5*	*1016.0*	*635.0*
3 x 600 & 800	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2100**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*952.5*
4 x 600& 800	**72.0**	**70.0**	**26.0**	**67.5**	**74.0**	**2600**
	1828.8	*1778.0*	*660.4*	*1714.5*	*1879.6*	*1179.3*
2 x 1000 & 1200	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2000**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*907.2*
3 x 1000 & 1200	**82.0**	**70.0**	**26.0**	**67.5**	**84.0**	**3000**
	2082.8	*1778.0*	*660.4*	*1714.5*	*2133.6*	*1360.8*
4 x 1000 & 1200	**106.0**	**70.0**	**26.0**	**67.5**	**108.0**	**3800**
	2692.4	*1778.0*	*660.4*	*1714.5*	*2743.2*	*1723.6*

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-680-7400 ext.117.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4*:	120/208V, 400 Hz

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUW Series (Capacitive Input)

Filter Cabinet

- **Modified Nema I, constructed of not less than #14 gauge CRS with galvanized bulkhead**
- **Finish: Blue enamel per FED-STD-595 to all non-conductive surfaces**
- **R. F. Radiation of the shielded (load) compartment shall be greater than 100 dB from 14 kHz to 10 GHz**
- **Front cover access, dual cover design**
- **Prewired standoffs and lugs**
- **Lifting hooks and mounting tabs**
- **Hubs and penetration installed upon request**
- **Legs for floor mount available**

Individual Filters

- **Hermetically sealed components with welded and/or soldered seams**
- **Constructed of not less than #16 gauge steel with corrosion resistant plating**
- **Bleeder resistor to eliminate shock hazard provided**
- **HEMP surge arrestors provided upon request**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 14 kHz - 10 GHz per MIL-STD-220A, under load condition.

Applicable Publications:

MIL-F-15733 — **Filters, radio interference**
MIL-STD-202F — **Test methods for Components**
MIL-STD-220A — **Test method of Insertion Loss**
MIL-STD-285 —**Test method for Shielding Effectiveness**
NFPA 70-1987 — **National Electric Code**
486A - 1983 — **Wire Connectors and Lug**
UL1283 — **Underwriter Laboratories**

LISTED
6P16

How to Order:

CDEUW 400 225 A6 - S - L

- **L** — Legs
- **S** — Surge Arrestors (optional) [1]
- **A6** — Voltage/Frequency*
- **225** — Current Rating
- **400** — # of Filters
- **CDEUW** — Series

Examples: CDEUW400225A6-S-L, CDEUW400225A6-S, CDEUW400225A6-L, CDEUW400225A6

Note 1:
Surge arrestors A6/A4* - supplied V251BA60
B6 - supplied V481BA60

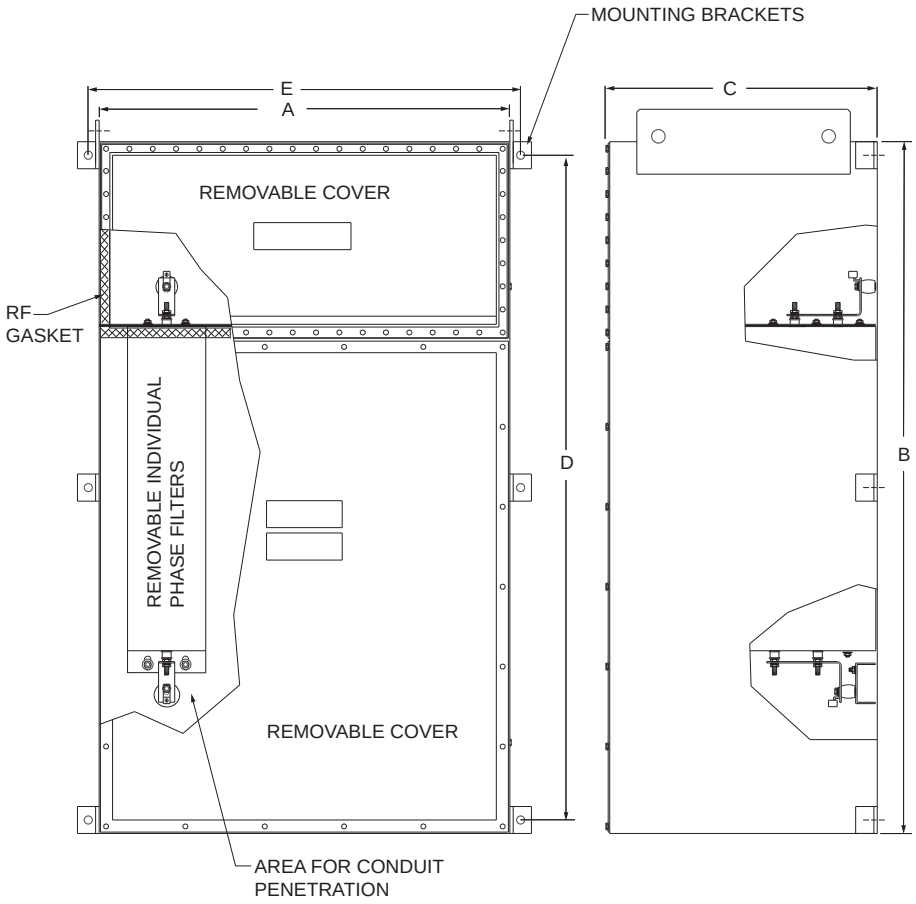
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUW Series (Capacitive Input) (Continued)



Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 10	**14.0**	**30.0**	**6.0**	**22.0**	**16.0**	**95**
	355.6	*762.0*	*152.4*	*558.8*	*406.4*	*43.1*
3 x 10	**20.0**	**30.0**	**6.0**	**22.0**	**22.0**	**100**
	508.0	*762.0*	*152.4*	*558.8*	*558.8*	*45.4*
4 x 10	**26.0**	**30.0**	**6.0**	**22.0**	**28.0**	**120**
	660.4	*762.0*	*152.4*	*558.8*	*711.2*	*54.4*
2 x 30	**16.0**	**38.0**	**8.0**	**26.0**	**18.0**	**170**
	406.4	*965.2*	*203.2*	*660.4*	*457.2*	*77.1*
3 x 30	**23.0**	**38.0**	**8.0**	**26.0**	**25.0**	**240**
	584.2	*965.2*	*203.2*	*660.4*	*635.0*	*108.9*
4 x 30	**30.0**	**38.0**	**8.0**	**26.0**	**32.0**	**300**
	762.0	*965.2*	*203.2*	*660.4*	*812.8*	*136.1*
2 x 60 & 100	**16.0**	**44.0**	**10.0**	**32.0**	**18.0**	**240**
	406.4	*1117.6*	*254.0*	*812.8*	*457.2*	*108.9*
3 x 60 & 100	**23.0**	**44.0**	**10.0**	**32.0**	**25.0**	**310**
	584.2	*1117.6*	*254.0*	*812.8*	*635.0*	*140.6*
4 x 60 & 100	**30.0**	**44.0**	**10.0**	**32.0**	**32.0**	**400**
	762.0	*1117.6*	*254.0*	*812.8*	*812.8*	*181.4*
2 x 150	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**320**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*145.1*
3 x 150	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**430**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*195.0*
4 x 150	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**650**
	762.0	*1371.6*	*355.6*	*1066.8*	*812.8*	*294.8*

Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 225	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**380**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*172.4*
3 x 225	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**520**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*235.9*
4 x 225	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**700**
	762.0	*1371.6*	*355.5*	*1066.8*	*812.8*	*317.5*
2 x 300 & 400	**22.0**	**64.0**	**26.0**	**61.5**	**24.0**	**800**
	558.8	*1625.6*	*660.4*	*1562.1*	*609.6*	*362.9*
3 x 300 & 400	**30.0**	**64.0**	**26.0**	**61.5**	**32.0**	**1100**
	762.0	*1625.6*	*660.4*	*1562.1*	*812.8*	*498.9*
4 x 300 & 400	**38.0**	**64.0**	**26.0**	**61.5**	**40.0**	**1400**
	965.2	*1625.6*	*660.4*	*1562.1*	*1016.0*	*635.0*
2 x 600 & 800	**38.0**	**70.0**	**26.0**	**67.5**	**40.0**	**1400**
	965.2	*1778.0*	*660.4*	*1714.5*	*1016.0*	*635.0*
3 x 600 & 800	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2100**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*952.5*
4 x 600& 800	**72.0**	**70.0**	**26.0**	**67.5**	**74.0**	**2600**
	1828.8	*1778.0*	*660.4*	*1714.5*	*1879.6*	*1179.3*
2 x 1000 & 1200	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2000**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*907.2*
3 x 1000 & 1200	**82.0**	**70.0**	**26.0**	**67.5**	**84.0**	**3000**
	2082.8	*1778.0*	*660.4*	*1714.5*	*2133.6*	*1360.8*
4 x 1000 & 1200	**106.0**	**70.0**	**26.0**	**67.5**	**108.0**	**3800**
	2692.4	*1778.0*	*660.4*	*1714.5*	*2743.2*	*1723.6*

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-680-7400 ext.117.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4*:	120/208V, 400 Hz

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUL Series — Extended Range Buffer Networks (Inductive Input)

Filter Cabinet

- **Modified Nema I, constructed of not less than #14 gauge CRS with galvanized bulkhead**
- **Finish: Blue enamel per FED-STD-595 to all non-conductive surfaces**
- **R. F. Radiation of the shielded (load) compartment shall be greater than 100 dB from 14 kHz to 10 GHz**
- **Front cover access, dual cover design**
- **Prewired standoffs and lugs**
- **Lifting hooks and mounting tabs**
- **Hubs and penetration installed upon request**
- **Legs for floor mount available**

Individual Filters

- **Hermetically sealed components with welded and/or soldered seams**
- **Constructed of not less than #16 gauge steel with corrosion resistant plating**
- **Bleeder resistor to eliminate shock hazard provided**
- **HEMP surge arrestors provided upon request** ***(Current ratings to 800A)***

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 14 kHz - 10 GHz per MIL-STD-220A, under load condition, using extended range buffer networks over the frequency range of 14 kHz - 20 MHz.

Applicable Publications:

MIL-F-15733 — **Filters, radio interference**
MIL-STD-202F — **Test methods for Components**
MIL-STD-220A — **Test method of Insertion Loss**
MIL-STD-285 —**Test method for Shielding Effectiveness**
NFPA 70-1987 — **National Electric Code**
486A - 1983 — **Wire Connectors and Lug**
UL1283 — **Underwriter Laboratories**

LISTED
6P16

How to Order:

CDEUL 400 225 A6 - S - L

- **L** — Legs
- **S** — Surge Arrestors (optional) [1]
- **A6** — Voltage/Frequency*
- **225** — Current Rating
- **400** — # of Filters
- **CDEUL** — Series

Examples: CDEUL400225A6-S-L, CDEUL400225A6-S, CDEUL400225A6-L, CDEUL400225A6

Note 1:
Surge arrestors A6/A4* - supplied V251BA60
B6 - supplied V481BA60

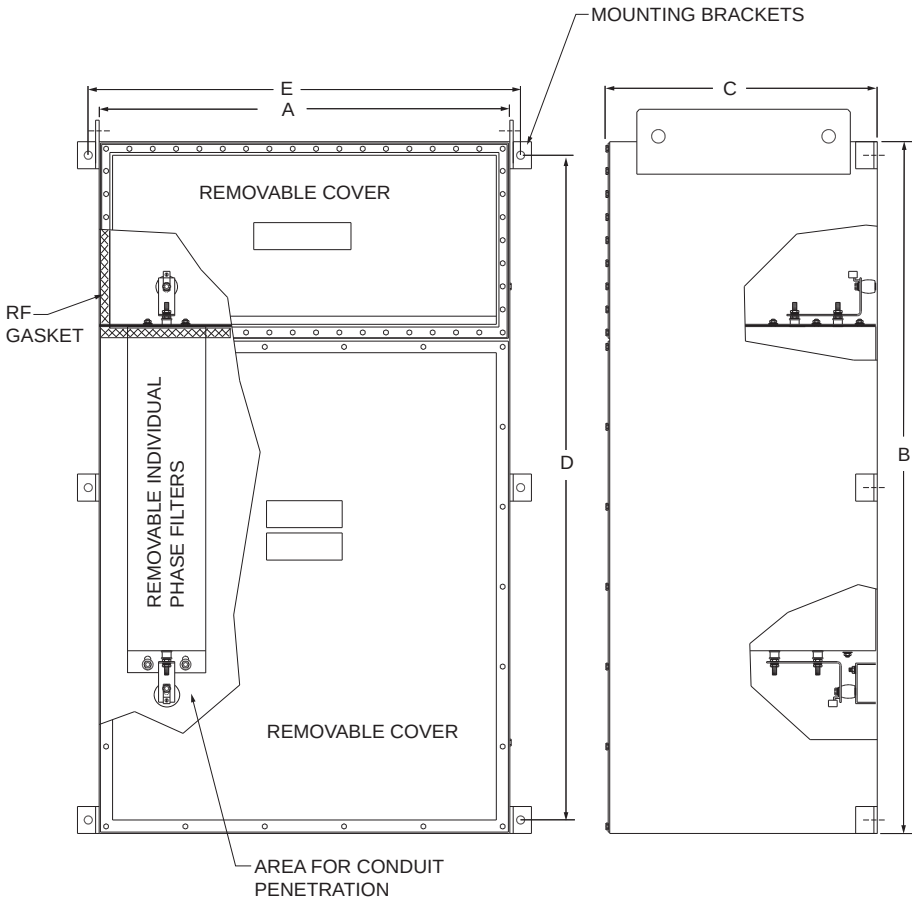
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDEUL Series — Extended Range Buffer Networks (Inductive Input) (Continued)



Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 10	**14.0**	**30.0**	**6.0**	**22.0**	**16.0**	**95**
	355.6	*762.0*	*152.4*	*558.8*	*406.4*	*43.1*
3 x 10	**20.0**	**30.0**	**6.0**	**22.0**	**22.0**	**100**
	508.0	*762.0*	*152.4*	*558.8*	*558.8*	*45.4*
4 x 10	**26.0**	**30.0**	**6.0**	**22.0**	**28.0**	**120**
	660.4	*762.0*	*152.4*	*558.8*	*711.2*	*54.4*
2 x 30	**16.0**	**38.0**	**8.0**	**26.0**	**18.0**	**170**
	406.4	*965.2*	*203.2*	*660.4*	*457.2*	*77.1*
3 x 30	**23.0**	**38.0**	**8.0**	**26.0**	**25.0**	**240**
	584.2	*965.2*	*203.2*	*660.4*	*635.0*	*108.9*
4 x 30	**30.0**	**38.0**	**8.0**	**26.0**	**32.0**	**300**
	762.0	*965.2*	*203.2*	*660.4*	*812.8*	*136.1*
2 x 60 & 100	**16.0**	**44.0**	**10.0**	**32.0**	**18.0**	**240**
	406.4	*1117.6*	*254.0*	*812.8*	*457.2*	*108.9*
3 x 60 & 100	**23.0**	**44.0**	**10.0**	**32.0**	**25.0**	**310**
	584.2	*1117.6*	*254.0*	*812.8*	*635.0*	*140.6*
4 x 60 & 100	**30.0**	**44.0**	**10.0**	**32.0**	**32.0**	**400**
	762.0	*1117.6*	*254.0*	*812.8*	*812.8*	*181.4*
2 x 150	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**320**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*145.1*
3 x 150	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**430**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*195.0*
4 x 150	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**650**
	762.0	*1371.6*	*355.6*	*1066.8*	*812.8*	*294.8*

Current (Amps)	Dimensions A	B	C	D	E	Weight (Pounds/KG)
2 x 225	**16.0**	**54.0**	**14.0**	**42.0**	**18.0**	**380**
	406.4	*1371.6*	*355.6*	*1066.8*	*457.2*	*172.4*
3 x 225	**23.0**	**54.0**	**14.0**	**42.0**	**25.0**	**520**
	584.2	*1371.6*	*355.6*	*1066.8*	*635.0*	*235.9*
4 x 225	**30.0**	**54.0**	**14.0**	**42.0**	**32.0**	**700**
	762.0	*1371.6*	*355.5*	*1066.8*	*812.8*	*317.5*
2 x 300 & 400	**22.0**	**64.0**	**26.0**	**61.5**	**24.0**	**800**
	558.8	*1625.6*	*660.4*	*1562.1*	*609.6*	*362.9*
3 x 300 & 400	**30.0**	**64.0**	**26.0**	**61.5**	**32.0**	**1100**
	762.0	*1625.6*	*660.4*	*1562.1*	*812.8*	*498.9*
4 x 300 & 400	**38.0**	**64.0**	**26.0**	**61.5**	**40.0**	**1400**
	965.2	*1625.6*	*660.4*	*1562.1*	*1016.0*	*635.0*
2 x 600 & 800	**38.0**	**70.0**	**26.0**	**67.5**	**40.0**	**1400**
	965.2	*1778.0*	*660.4*	*1714.5*	*1016.0*	*635.0*
3 x 600 & 800	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2100**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*952.5*
4 x 600& 800	**72.0**	**70.0**	**26.0**	**67.5**	**74.0**	**2600**
	1828.8	*1778.0*	*660.4*	*1714.5*	*1879.6*	*1179.3*
2 x 1000 & 1200	**56.0**	**70.0**	**26.0**	**67.5**	**58.0**	**2000**
	1422.4	*1778.0*	*660.4*	*1714.5*	*1473.2*	*907.2*
3 x 1000 & 1200	**82.0**	**70.0**	**26.0**	**67.5**	**84.0**	**3000**
	2082.8	*1778.0*	*660.4*	*1714.5*	*2133.6*	*1360.8*
4 x 1000 & 1200	**106.0**	**70.0**	**26.0**	**67.5**	**108.0**	**3800**
	2692.4	*1778.0*	*660.4*	*1714.5*	*2743.2*	*1723.6*

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-680-7400 ext.117.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4:	120/208V, 400 Hz

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUX-C Series

Features

- **Hermetically sealed, constructed of 16 gauge cold rolled steel**
- **All non-conductive surfaces protected with suitable painting**
- **Removable input cover for terminal access and field wiring connection**
- **Threaded conduit fitting with flexible lead on the load side**
- **Knockouts provided on the input side**
- **Discharge bleeder resistor provided to reduce shock hazard**
- **HEMP surge protector provided upon request**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 14 kHz - 10 GHz per MIL-STD-220A, under load condition, using extended range buffer networks over the frequency range of 14 kHz - 20 MHz.

Applicable Publications:

MIL-F-15733 — **Filters, radio interference**
MIL-STD-202F — **Test methods for Components**
MIL-STD-220A — **Test method of Insertion Loss**
MIL-STD-285 —**Test method for Shielding Effectiveness**
NFPA 70-1987 — **National Electric Code**
486A - 1983 — **Wire Connectors and Lug**
UL1283 — **Underwriter Laboratories**

LISTED
6P16

How to Order:

CDSUX 2 030 A6 - C - S

- **Surge Arrestors**
- **Conduit Fitting**
- **Voltage/Frequency***
- **Current Rating**
- **# of Filters**
- **Basic Prefix**

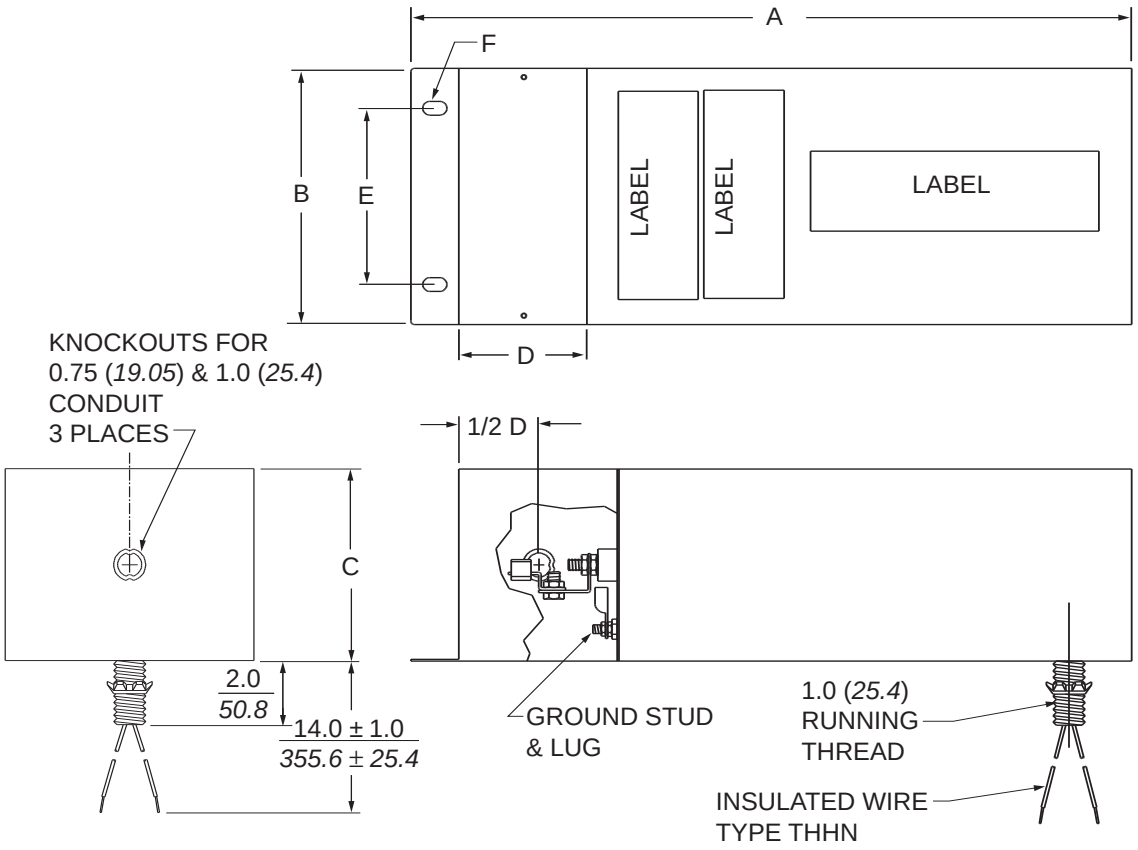
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUX-C Series (Continued)



CDSUX	Current (Amps)	Dimensions						Wire Gauge (AWG/mm²)	Approx. Weight (Pounds/KG)
		A ±.063 [1.6]	B ±.063 [1.6]	C ±.063 [1.6]	D	E	F		
1010**-C	10	**21.0** *533.4*	**4.0** *101.6*	**5.0** *127.0*	**5.0** *127.0*	**3.0** *76.2*	**.31 x .50** *7.87 x 12.7*	**10** *5.26*	**15** *6.80*
2010**-C	2 x 10	**21.0** *533.4*	**8.0** *203.2*	**5.0** *127.0*	**5.0** *127.0*	**5.5** *139.7*	**.43 x .75** *10.9 x 19.1*	**10** *5.26*	**30** *13.6*
1030**-C	30	**26.0** *660.4*	**6.0** *152.4*	**6.0** *152.4*	**5.0** *127.0*	**4.0** *101.6*	**.31 x .50** *7.87 x 12.7*	**6** *13.20*	**30** *13.6*
2030**-C	2 x 30	**26.0** *660.4*	**12.0** *304.8*	**6.0** *152.4*	**5.0** *127.0*	**9.0** *228.6*	**.43 x .75** *10.9 x 19.1*	**6** *13.20*	**60** *27.2*
1060**-C	60	**32.0** *812.8*	**8.0** *203.2*	**6.0** *152.4*	**6.0** *152.4*	**5.5** *139.7*	**.43 x .75** *10.9 x 19.1*	**6** *13.20*	**60** *27.2*
1100**-C	100	**34.0** *863.6*	**8.0** *203.2*	**6.0** *152.4*	**8.0** *203.2*	**5.5** *139.7*	**.43 X .75** *10.9 x 19.1*	**2** *33.6*	**70** *31.8*
1150**-C	150	**41.0** *1041.4*	**10.0** *254.0*	**6.0** *152.4*	**9.0** *228.6*	**9.0** *228.6*	**.43 X .75** *10.9 x 19.1*	**0** *53.5*	**90** *40.8*
1225**-C	225	**41.0** *1041.4*	**10.0** *254.0*	**6.0** *152.4*	**9.0** *228.6*	**9.0** *228.6*	**.43 X .75** *10.9 x 19.1*	**250 MCM** *126.0*	**120** *54.4*

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-680-7400 ext.117.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4*:	120/208V, 400 Hz

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUW-C Series

Features

- **Hermetically sealed, constructed of 16 gauge cold rolled steel**
- **All non-conductive surfaces protected with suitable painting**
- **Removable input cover for terminal access and field wiring connection**
- **Threaded conduit fitting with flexible lead on the load side**
- **Knockouts provided on the input side**
- **Discharge bleeder resistor provided to reduce shock hazard**
- **HEMP surge protector provided upon request**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 14 kHz - 10 GHz per MIL-STD-220A, under load condition.

Applicable Publications:

MIL-F-15733 — **Filters, radio interference**
MIL-STD-202F — **Test methods for Components**
MIL-STD-220A — **Test method of Insertion Loss**
MIL-STD-285 —**Test method for Shielding Effectiveness**
NFPA 70-1987 — **National Electric Code**
486A - 1983 — **Wire Connectors and Lug**
UL1283 — **Underwriter Laboratories**

LISTED
6P16

How to Order:

CDSUW 2 030 A6 - C - S

- **Surge Arrestors**
- **Conduit Fitting**
- **Voltage/Frequency***
- **Current Rating**
- **# of Filters**
- **Basic Prefix**

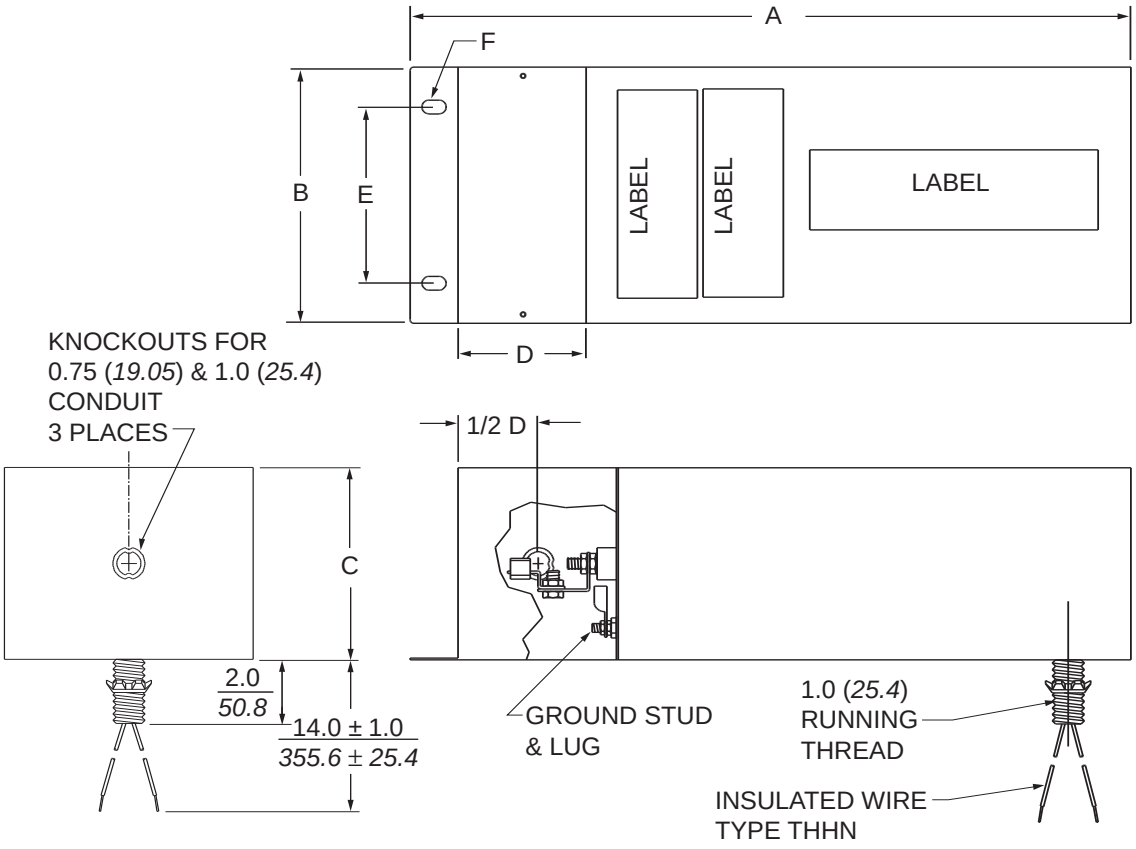
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUW-C Series (Continued)



CDSUW	Current (Amps)	Dimensions						Wire Gauge (AWG/mm²)	Approx. Weight (Pounds/KG)
		A ±.063 [1.6]	B ±.063 [1.6]	C ±.063 [1.6]	D	E	F		
1010**-C	10	**21.0** *533.4*	**4.0** *101.6*	**5.0** *127.0*	**5.0** *127.0*	**3.0** *76.2*	**.31 x .50** *7.87 x 12.7*	**10** *5.26*	**15** *6.80*
2010**-C	2 x 10	**21.0** *533.4*	**8.0** *203.2*	**5.0** *127.0*	**5.0** *127.0*	**5.5** *139.7*	**.43 x .75** *10.9 x 19.1*	**10** *5.26*	**30** *13.6*
1030**-C	30	**26.0** *660.4*	**6.0** *152.4*	**6.0** *152.4*	**5.0** *127.0*	**4.0** *101.6*	**.31 x .50** *7.87 x 12.7*	**6** *13.20*	**30** *13.6*
2030**-C	2 x 30	**26.0** *660.4*	**12.0** *304.8*	**6.0** *152.4*	**5.0** *127.0*	**9.0** *228.6*	**.43 x .75** *10.9 x 19.1*	**6** *13.20*	**60** *27.2*
1060**-C	60	**32.0** *812.8*	**8.0** *203.2*	**6.0** *152.4*	**6.0** *152.4*	**5.5** *139.7*	**.43 x .75** *10.9 x 19.1*	**6** *13.20*	**60** *27.2*
1100**-C	100	**34.0** *863.6*	**8.0** *203.2*	**6.0** *152.4*	**8.0** *203.2*	**5.5** *139.7*	**.43 X .75** *10.9 x 19.1*	**2** *33.6*	**70** *31.8*
1150**-C	150	**41.0** *1041.4*	**10.0** *254.0*	**6.0** *152.4*	**9.0** *228.6*	**9.0** *228.6*	**.43 X .75** *10.9 x 19.1*	**0** *53.5*	**90** *40.8*
1225**-C	225	**41.0** *1041.4*	**10.0** *254.0*	**6.0** *152.4*	**9.0** *228.6*	**9.0** *228.6*	**.43 X .75** *10.9 x 19.1*	**250 MCM** *126.0*	**120** *54.4*

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-680-7400 ext.117.

Max. Operating Voltage	
A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4*:	120/208V, 400 Hz

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUA Series

Features

- **All four current ratings utilize a single housing (single-wire 30, 60, 100A and two-wire 30A)**
- **Hermetically sealed using 18 AWG long terne steel**
- **Removable input cover provides quick access to terminals**
- **Three knockouts on the input side**
- **Discharge bleeder resistor provided to reduce shock hazard**
- **Surge protector provided upon request**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 302.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Current Rating:
Single-Wire 30, 60 and 100A, Two-Wire 30A

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 100 kHz - 10 GHz per MIL-STD-220A

Operating Frequency:
50/60Hz

Operating Voltage:
277/480 vac (max.)

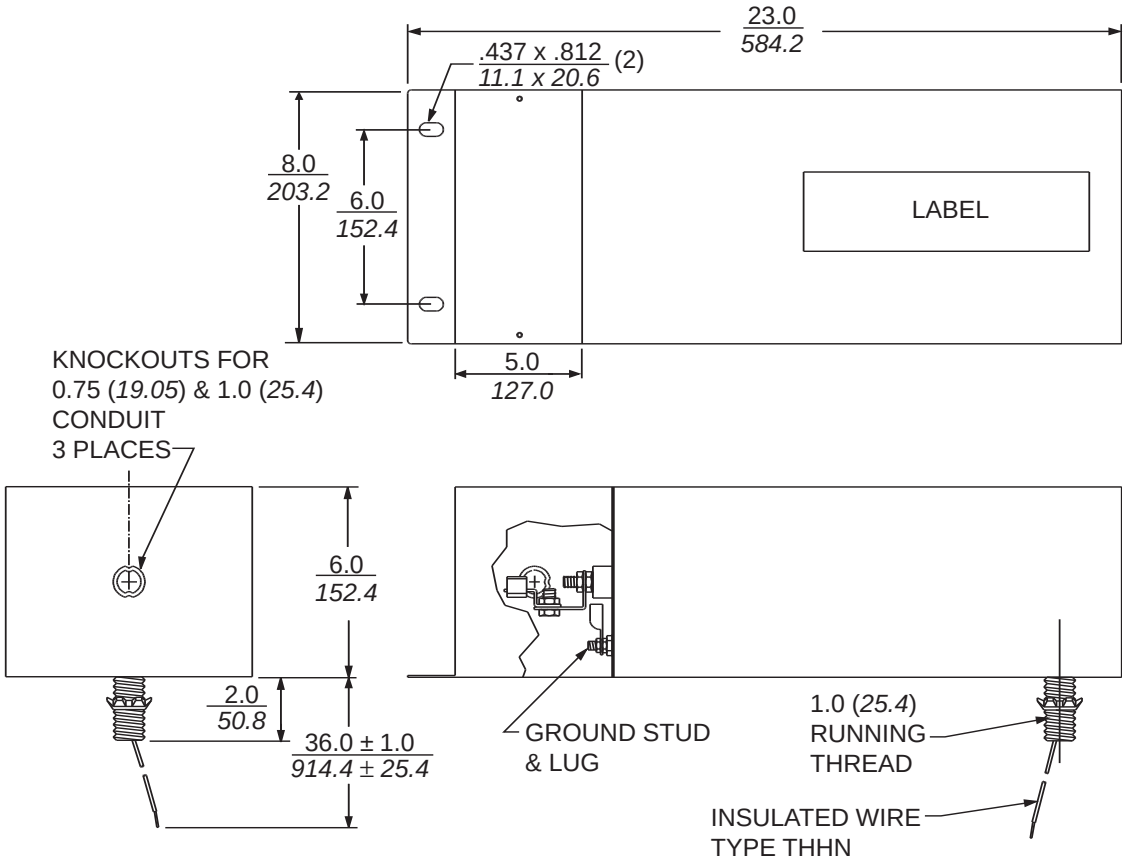
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDSUA Series (Continued)



Part Nos.	Current (Amps)	Wire Gauge (AWG)	# of Wires
CDSUA1030-C	30	**6**	**1**
CDSUA1060-C	60	**6**	**1**
CDSUA1100-C	100	**1**	**1**
CDSUA2030-C	2 x 30	**6**	**2**

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

SLA Series

Enclosure

- **Modified NEMA I, constructed of not less than #14 gauge CRS with galvanized bulkhead**
- **Finish: Blue enamel per FED-STD-595 to all non-conductive surfaces**
- **R. F. Radiation of the shielded (load) greater than 100 dB up to 10 GHz**
- **Front cover access**
- **Prewired push pin terminal blocks or screw type terminations**
- **MOV or Gas tube arrestors installed upon request**
- **Legs for floor mount available**

Individual Filters

- **Each filter is a dual circuit**
- **Hermetically sealed with soldered seams**
- **Covered with suitable plating**
- **Designed and tested per MIL-F-15733, latest revision**

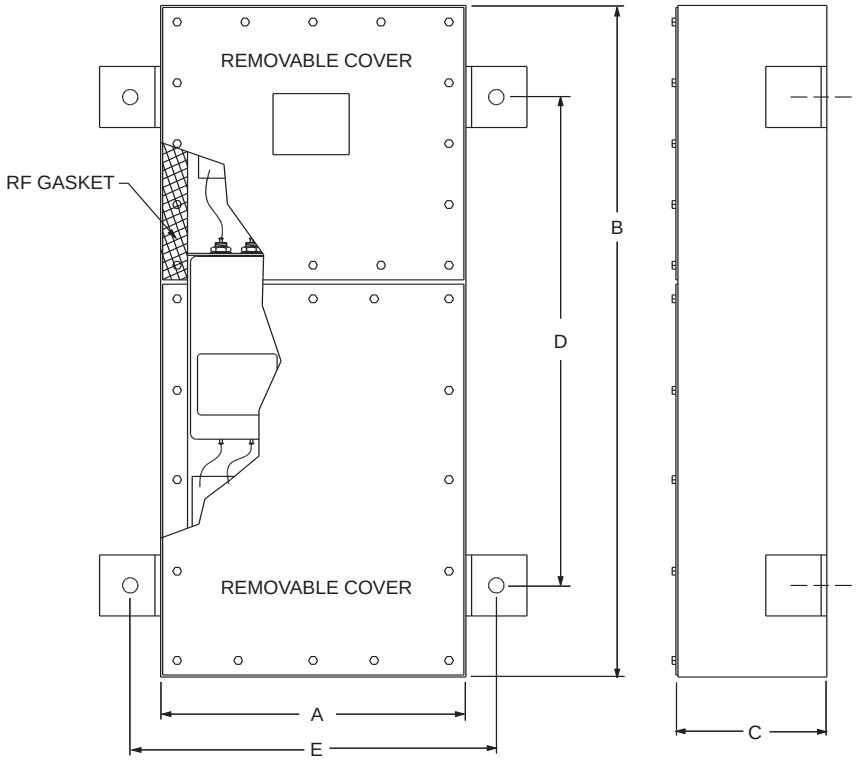
Filter Selection (Part Numbers for Ordering)

WFV3470 — Telephone (KS20162)
WFV3544 — Telephone (Standard)
WFV3577 — Telephone (Special)
WFV3561 — Data (9.6 KBAUD)
WFV3562 — Data (19.2 KBAUD)
WFV3563 — Data (56.0 KBAUD)
WFV3564 — Fire Alarm
WFV3575 — Intercom
NF21590 — Control (1.0 A)
NF21593-3 — Control (3.0 A)
NF21593-5 — Control (5.0 A)

Applicable Publications:

MIL-F-15733 — **Filters, Radio Interference**
MIL-STD-220A — **Test Method of Insertion Loss**

SLA Series (Continued)



Enclosure w/Filters	Number of Dual Filters	Dimensions A ±.125 [3.18]	B ±.25 [3.18]	C ±.25 [6.4]	D ±.06 [1.5]	E ±.06 [1.5]	Approx. Weight (Pounds/KG)
SLA***-4	4	**8.0** *203.2*	**20.0** *508.0*	**5.0** *127.0*	**14.0** *355.6*	**10.0** *254.0*	**18** *8.16*
SLA***-10	10	**18.0** *457.2*	**20.0** *508.0*	**5.0** *127.0*	**14.0** *355.6*	**20.0** *508.0*	**45** *20.4*
SLA***-25	25	**18.0** *457.2*	**24.0** *609.6*	**9.5** *241.3*	**18.0** *457.2*	**20.0** *508.0*	**90** *40.8*
SLA***-50	50	**32.0** *812.8*	**26.0** *660.4*	**9.5** *241.3*	**20.0** *508.0*	**34.0** *863.6*	**115** *52.2*
SLA***-100	100	**42.0** *1066.8*	**28.0** *711.2*	**12.75** *323.8*	**22.0** *558.8*	**44.0** *1117.6*	**285** *129.3*
SLA***-150	150	**32.0** *823.8*	**50.0** *1270.0*	**15.5** *393.7*	**44.0** *1117.6*	**34.0** *863.6*	**475** *215.5*
SLA***-200	200	**34.0** *863.6*	**64.0** *1625.6*	**15.5** *393.7*	**61.5** *1562.1*	**36.0** *914.4*	**650** *294.8*

How to Order:

SLA * - *** - *** - S**

- **S** — Surge Arrestors
- *** (third) — # of filters actually installed
- *** (second) — Max. number of dual filters
- *** (first) — Replace with:
  - 214 - Telephone Standard
  - 215 - Telephone KS20162
  - 253 - Data (9.6 kB)
  - 254 Data (19.2 kB)
  - 255 - Data (56.0 kB)
  - 257 - Control (1 Amp)
  - ISDN - ISDN (64k)
- **SLA** — Basic Prefix

Example: SLA214-100-75-S
(75 Telelphone Filters installed inside 100 space cabinet with surge arrestors)

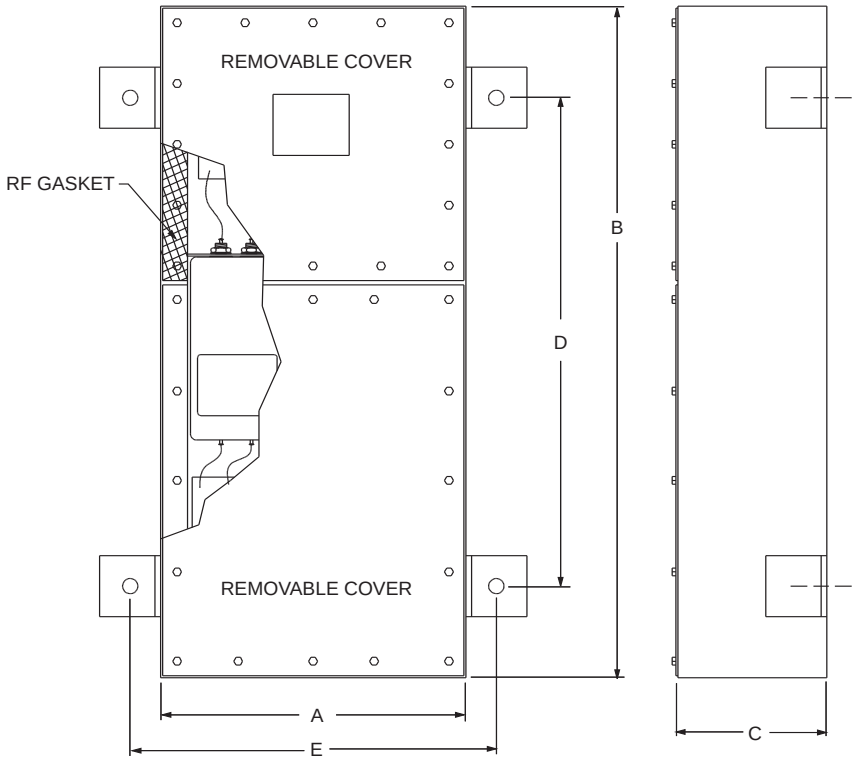
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

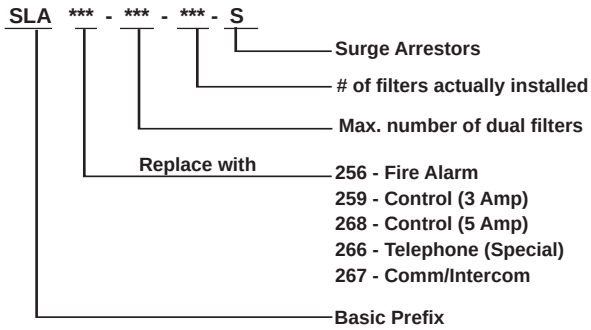
CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

SLA Series (Continued)



Enclosure w/Filters	Number of Dual Filters	Dimensions A ±.125 [3.18]	B ±.125 [3.18]	C ±.25 [6.4]	D ±.06 [1.5]	E ±.06 [1.5]	Approx. Weight (Pounds/KG)
SLA***-4	4	**10.0** *254.0*	**22.0** *558.8*	**6.0** *152.4*	**12.0** *304.8*	**12.0** *304.8*	**20** *9.08*
SLA***-10	10	**20.0** *508.0*	**22.0** *558.8*	**6.0** *152.4*	**22.0** *558.8*	**22.0** *558.8*	**50** *22.7*
SLA***-25	25	**20.0** *508.0*	**28.0** *711.2*	**12.0** *304.8*	**22.0** *558.8*	**22.0** *558.8*	**140** *63.5*
SLA***-50	50	**38.0** *965.2*	**28.0** *711.2*	**12.0** *304.8*	**22.0** *558.8*	**40.0** *1016.0*	**250** *113.4*
SLA***-100	100	**54.0** *1371.6*	**30.0** *762.0*	**15.0** *381.0*	**24.0** *609.6*	**56.0** *1422.4*	**450** *204.2*
SLA***-150	150	**36.0** *914.4*	**64.0** *1625.6*	**18.0** *457.2*	**56.0** *1422.4*	**38.0** *965.2*	**670** *303.9*
SLA***-200	200	**42.0** *1066.8*	**72.0** *1828.8*	**22.0** *558.8*	**64.0** *1625.6*	**44.0** *1117.6*	**1000** *453.6*

How to Order:



Example: SLA256-100-80
(80 Fire alarm filters installed inside 100 space cabinet)

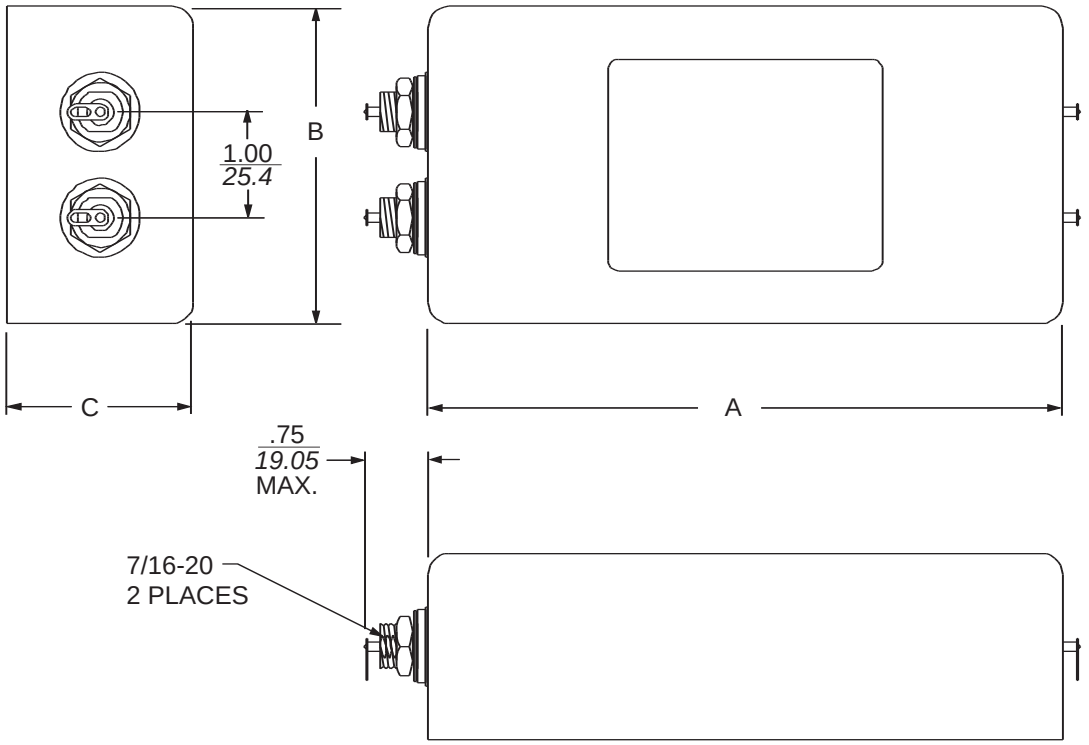
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

SLA Series (Continued)



Model No.	Type	Impedance (Ohms)	Insertion Loss (dB)		I (Amp)	Case Size			Filter Installed in Cabinet
			Pass Band	Stop Band		A	B	C	
WFV3470	TEL (KS20162)	300/600	5kHz	65 dB, 14kHz, 100 dB, 30kHz-10GHz	0.16	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA215
WFV3544	TEL (STANDARD)	300/600	3kHz	100 dB, 14kHz-10GHz	0.5	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA214
WFV3577	TEL (SPECIAL)	300/600	5kHz	80 dB, 14kHz-10GHz	0.5	6.00 *152.4*	3.00 *76.2*	1.75 *44.5*	SLA266
WFV3561	DATA (9.6kB)	300/600	28kHz	100 dB, 150kHz-10GHz	0.2	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA253
WFV3562	DATA (19.2kB)	50/100	56kHz	100 dB, 300kHz-10GHz	0.2	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA254
WFV3563	DATA (56kB)	50/100	168kHz	100 dB, 1MHz-10GHz	0.2	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA255
ISDN64	DATA (64k)	67.5/135	160kHz	100 dB, 1MHz to 10GHz	0.1A	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLAISDN
WFV3564	FIRE ALARM (Analog)	63/126	N/A	100 dB, 14kHz-10GHz	1.0	6.00 *152.4*	3.00 *76.2*	1.75 *44.5*	SLA256
WFV3575	COMM/ INTERCOM	22.5/95	3kHz	100 dB, 14kHz-10GHz	0.5	6.00 *152.4*	3.00 *76.2*	1.75 *44.5*	SLA267
NF21590	CONTROL (1A)	50/100	N/A	100 dB, 14kHz-10GHz	1.0	5.25 *133.4*	2.50 *63.5*	1.25 *31.8*	SLA257
NF21593-3	CONTROL (3A)	50/100	N/A	100 dB, 14kHz-10GHz	3.0	6.00 *152.4*	3.00 *76.2*	1.75 *44.5*	SLA259
NF21593-5	CONTROL (5A)	50/100	N/A	100 dB, 14kHz-10GHz	5.0	6.00 *152.4*	3.00 *76.2*	1.75 *44.5*	SLA257

The above filters are used for AC or DC applications up to 125VAC/400VDC, **EXCEPT** WFV3575 which is 50 VAC/100 VDC.

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDFS Series

Features

- **Hermetically sealed, constructed cold rolled steel**
- **Removable input cover for terminal access and field wiring connection**
- **Threaded conduit fitting with two #20 AWG flexible leads provided on the load side**
- **Three knockouts on the input side**
- **Designed and tested per MIL-F-15733 (latest revision)**

Filter Selection (Part Numbers for Ordering)

CDFS1038 — Telephone (KS20162)
CDFS1004 — Telephone (Standard)
CDFS1039 — Telephone (Special)
CDFS1030 — Data (9.6 KBAUD)
CDFS1040 — Data (19.2 KBAUD)
CDFS1041 — Data (56.0 KBAUD)
CDFS1028 — Fire Alarm
CDFS1029 — Comm/Intercom
CDFS1042 — Control (1.0 A)
CDFS1043 — Control (3.0 A)
CDFS1044 — Control (5.0 A)

Applicable Publications:

MIL-F-15733 — **Filters, Radio Interference**
MIL-STD-220A — **Test Method of Insertion Loss**

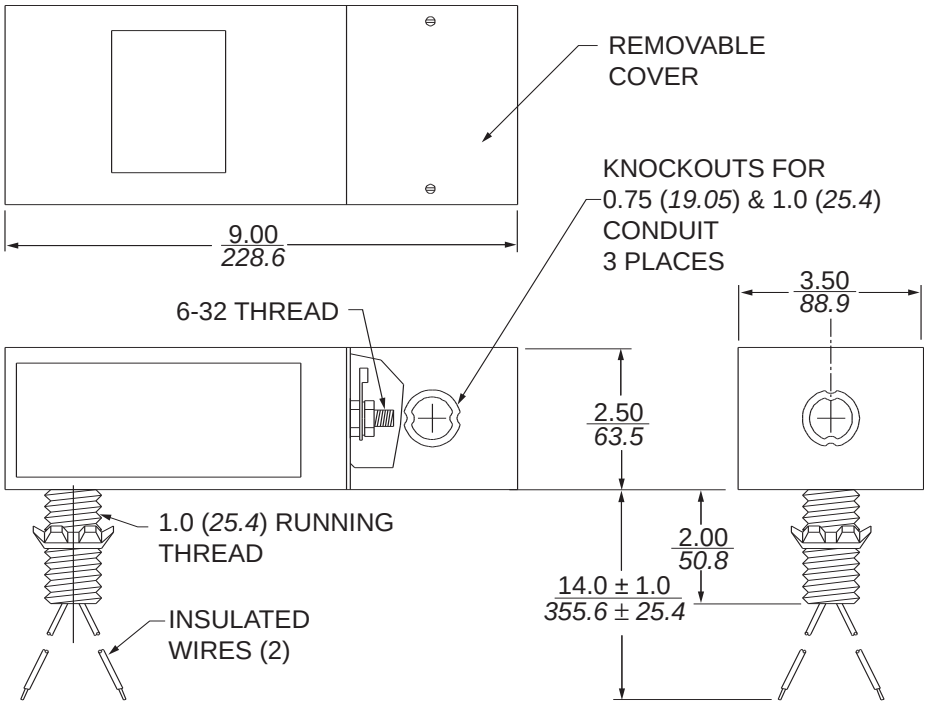
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

CDFS Series (Continued)



Model No.*	Type	Impedance (Ohms)	Insertion Loss (dB)		I (Amp)
			Pass Band	Stop Band	
CDFS1038	TEL (KS20162)	300/600	5kHz	65 dB, 14kHz, 100 dB, 30kHz-10GHz	0.16
CDFS1004-A	TEL (STANDARD)	300/600	3kHz	100 dB, 14kHz-10GHz	0.5
CDFS1039	TEL (SPECIAL)	300/600	5kHz	80 dB, 14kHz-10GHz	0.5
CDFS1030	DATA (9.6kB)	300/600	28kHz	100 dB, 200kHz-10GHz	0.2
CDFS1040	DATA (19.2kB)	50/100	56kHz	100 dB, 300kHz-10GHz	0.2
CDFS1041	DATA (56kB)	50/100	168kHz	100 dB, 1MHz-10GHz	0.2
CDFS1028	FIRE ALARM (Analog)	N/A	N/A	100 dB, 14kHz to 10GHz	1.0
CDFS1029	COMM/ INTERCOM	22.5/45	3kHz	100 db, 14kHz-10GHz	0.5
CDFS1042	CONTROL (1.0A)	N/A	N/A	100 db, 14kHz-10GHz	1.0
CDFS1043	CONTROL (3.0A)	N/A	N/A	100 db, 14kHz-10GHz	3.0
CDFS1044	CONTROL (5.0A)	N/A	N/A	100 db, 14kHz-10GHz	5.0

The above filters are used for AC or DC applications up to 125VAC/400VDC, **EXCEPT** CDFS1029 which is 50 VAC/100 VDC.
*Add "S" for surge arrestors. Ex: CDFS1038-S

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

MRI 2030 High Performance (100 dB 100 kHz to10 GHz)

Features

- **UL 1283 listed**
- **Filter compartment hermetically sealed, constructed of 16 gauge cold rolled steel**
- **Removable input cover for terminal access and field wiring connection**
- **Threaded conduit fitting with flexible lead on the load side**
- **Knockouts provided on the input side**
- **Discharge bleeder resistor provided to reduce shock hazard**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB 100 kHz to 10GHz per MIL-STD-220A, under load condition.

LISTED
6P16

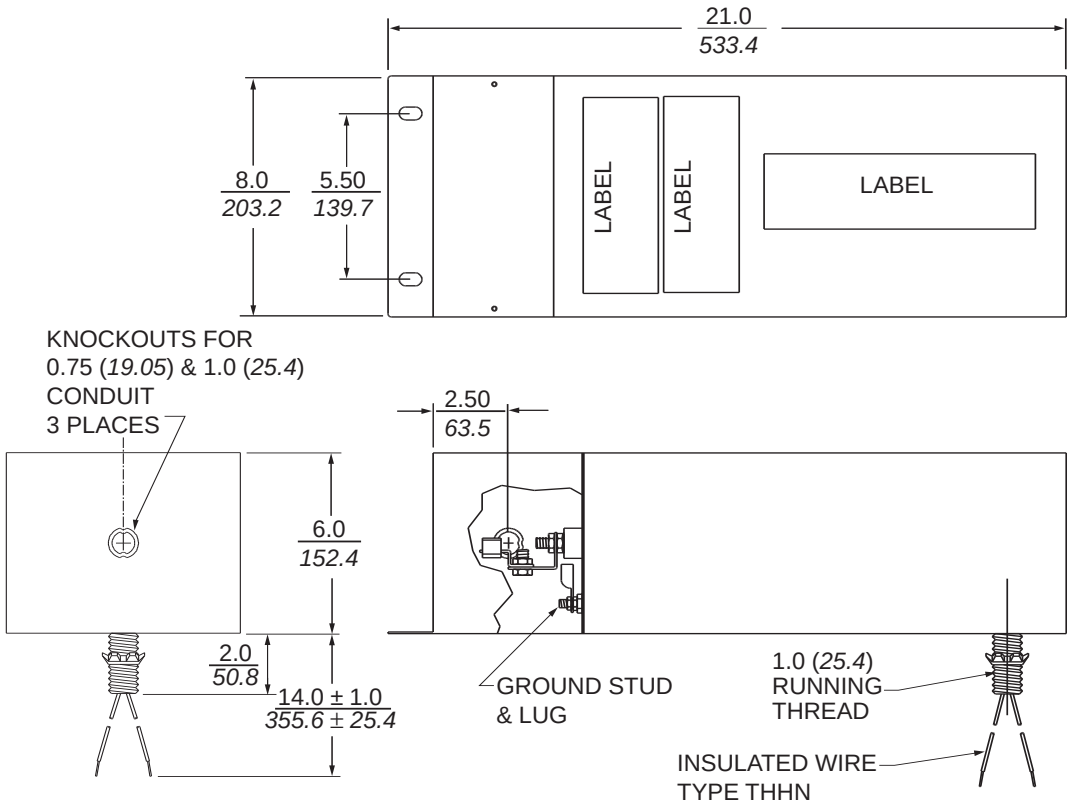
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

MRI 2030 High Performance (100 dB 100 kHz to10 GHz) (Continued)



Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

MRI 2030R (100 dB 5 MHz to 20 GHz)

Features

- **UL listed and CSA Certified (Pending)**
- **Competitively priced**
- **Removable input cover for terminal access and field wiring connection**
- **Threaded conduit fitting with flexible lead on the load side**
- **Knockouts provided on the input side**
- **Discharge bleeder resistor provided to reduce shock hazard**

Electrical Characteristics

Voltage Drop:
Less than 1% @ unity power factor.

Overload:
140% of rated current for 15 minutes.

Harmonic Distortion:
Less than 2% @ full rated current.

Dielectric Withstanding Voltage:
Per MIL-F-15733 and UL1283.

D.C. Insulation Resistance:
Per MIL-STD-202, Method 202.

Terminal Strength:
Per MIL-STD-202, Method 211, Condition E.

Temperature Rise:
Per MIL-F-15733.

R.F. Radiation:
100 dB minimum shielding effectiveness.

Insertion Loss:
100 dB from 5 MHz - 20 GHz per MIL-STD-220A, under load condition.

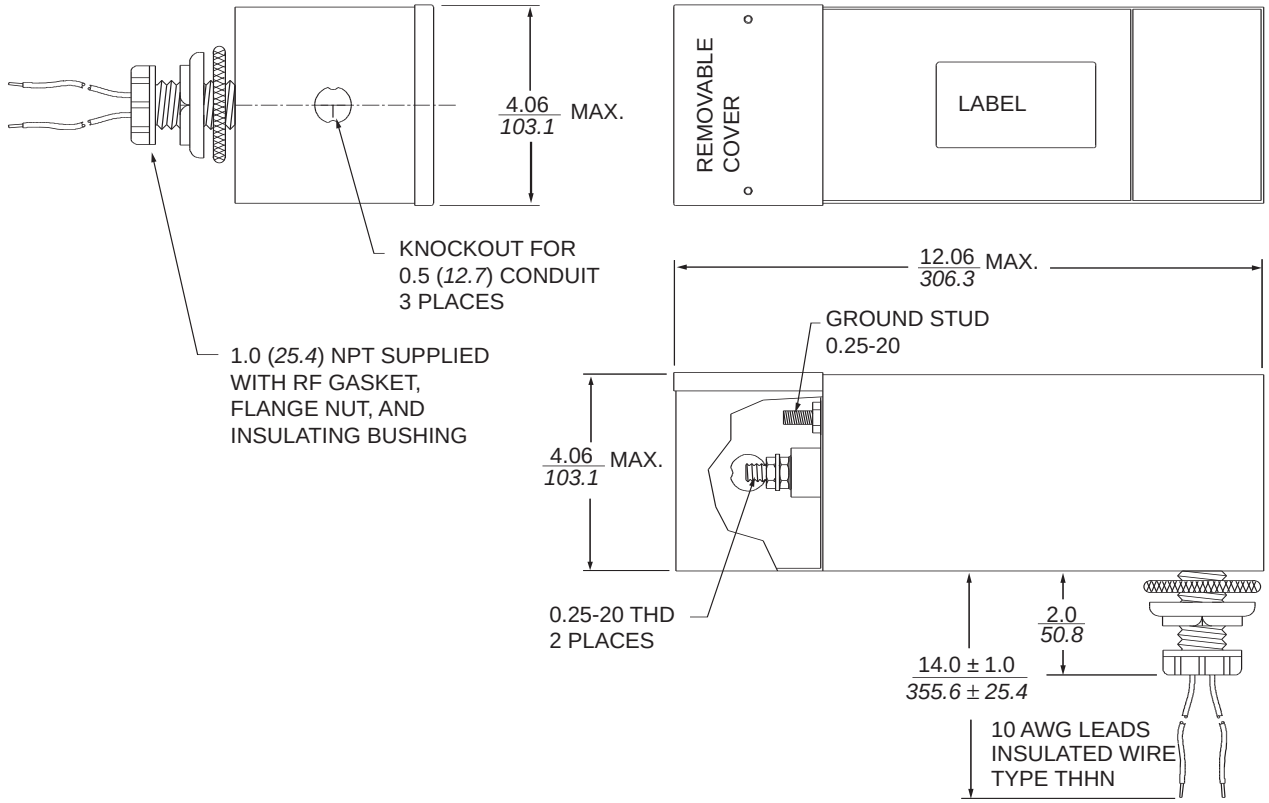
Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

MRI 2030R (100 dB 5 MHz to 20 GHz) (Continued)



Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

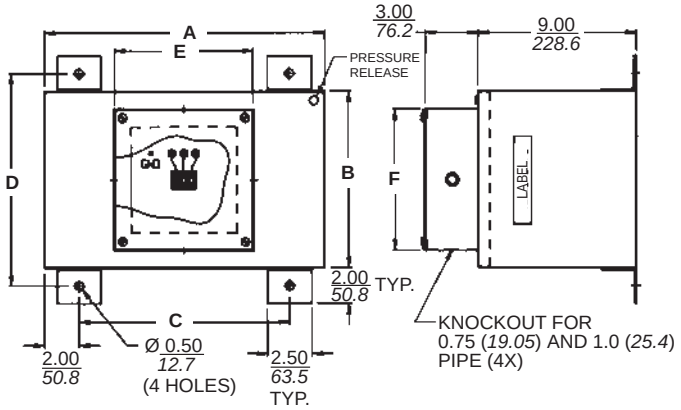
Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Power Factor Correction Coils

Features

- **Used to cancel part of the undesirable capacitive-reactive current due to the line-to-ground capacitors in Power Line Filters operating at 400 Hz power**
- **Coils are optional for CDEUX and CDEUL filters**



Electrical Characteristics

Voltage Rating:

120 VAC/400 Hz

Temperature Rise:

Case temperature rise shall not exceed 35˚C when operating at an ambient temperature of 25˚C.

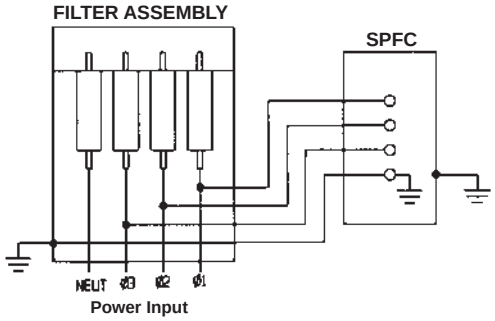
Materials

Unit Case:

#16GA min. steel. All surfaces painted. Unit is filled with mineral oil with pressure release holes. Standard unit is designed for horizontal surface mounting. Vertical surface mounting is available upon special request.

Notes:

1. Pressure release device is blocked by a brass cap to keep oil from leaking. After unit is installed, this cap must be replaced with a special cap with pressure release holes.
2. The special cap should be checked frequently to keep all holes unclogged.



Part Nos.	Catalog No.	Dimensions ±0.06 [1.52] A	B	C	D	E	F	Current per Phase	Used For
1609206-2	SPFC301	**16.0** *406.4*	**10.0** *254.0*	**12.0** *304.8*	**12.0** *304.8*	**8.0** *203.2*	**8.0** *203.2*	**12A**	CDEUL030A4 CDEUX030A4
1609206-4	SPFC302	**18.0** *457.2*	**11.0** *279.4*	**14.0** *355.6*	**13.0** *330.2*	**8.0** *203.2*	**8.0** *203.2*	**24A**	CDEUL060A4 CDEUX060A4
1609206-6	SPFC303	**18.0** *457.2*	**16.0** *406.4*	**14.0** *355.6*	**18.0** *457.2*	**14.0** *355.6*	**12.0** *304.8*	**36A**	CDEUL100A4 CDEUX100A4
1609206-7	SPFC304	**20.0** *508.0*	**20.0** *508.0*	**16.0** *406.4*	**22.0** *558.8*	**14.0** *355.6*	**12.0** *304.8*	**48A**	CDEUL200A4 CDEUX200A4

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Part Number Index

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com

Engineering Notes

Catalog 1654986
Revised 8-04

Dimensions are in inches and millimeters unless otherwise specified. Values in italics are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

CORCOM Prods: 1-847-680-7400
1-508-992-4495
www.cor.com
www.tycoelectronics.com