

CDEUL Series - Extended Range Buffer Networks (Inductive Input)

CDEUL Series



Filter Cabinet

- Modified NEMA I, constructed of not less than #14 gauge CRS with galvanized bulkhead
- Blue epoxy finish to all non-conductive surfaces
- R.F. Radiation of the shielded (load) compartment greater than 100 dB from 14 kHz to 10 GHz
- Front cover access, dual cover design
- Filter inserts pre-wired to standoffs and lugs
- Lifting hooks and mounting tabs
- Legs for floor mount available (see page 24)

Individual Filters

- 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-PRF-15733 and UL1283

D.C. Insulation Resistance:

Per MIL-STD-202, Method 302

Terminal Strength:

Per MIL-STD-202, Method 211, Condition E

Temperature Rise:

Per MIL-PRF-15733 and UL1283

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:

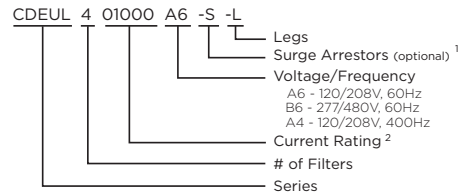
- MIL-PRF-15733** — Filters, radio interference
- MIL-STD-202** — Test methods for Components
- MIL-STD-220A** — Test method of Insertion Loss
- MIL-STD-188-125** — HEMP
- MIL-STD-285** — Test method for Shielding Effectiveness
- NFPA 70-1987** — National Electric Code
- 486A - 1983** — Wire Connectors and Lug
- UL1283** — Underwriter Laboratories

† Intended for HEMP applications ≤150A. For filters rated ≥225A refer to the new TECUL Series on page 14.



Shown with optional legs

How to Order:



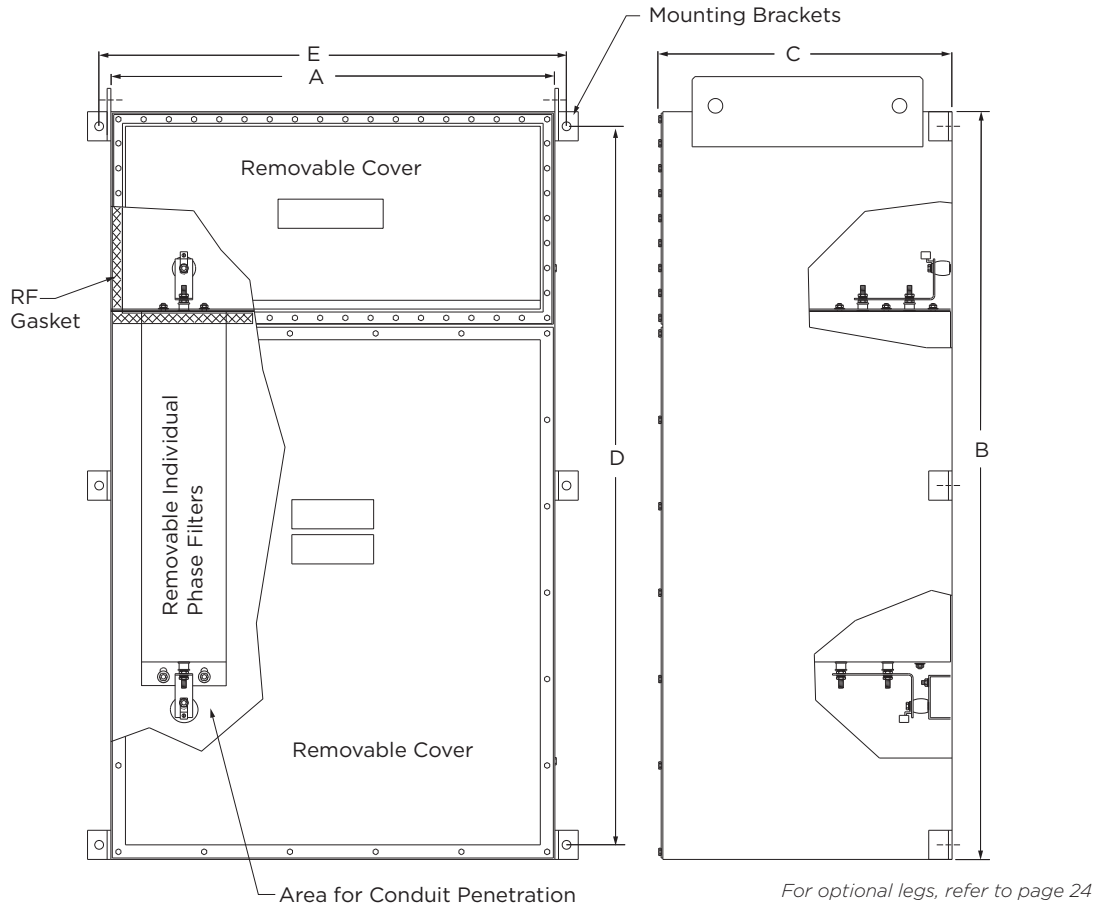
Examples:
 CDEUL401000A6-S-L =
 4, 1000A CDEUL, 120/280V filters in cabinet
 with surge arrestors and legs
 CDEUL300030B6 =
 3, 30A CDEUL, 277/480V filters in cabinet

Note 1: Surge Arrestor for A6/A4* Models: V251BA60
 Surge Arrestor for B6 Models: V481BA60

Note 2: Current configuration listed as 5 digits with leading zeros

† 60 Hz Models Only

CDEUL Series - ERBN (Inductive Input) (continued)



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

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

*400Hz filters available upon request. Will require external power factor correction coil. Please contact Tyco Electronics Application Engineering 847-573-6517.

Recommended torque for fasteners on removable cover: 25 in. lb. ± 3 in. lb.

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