

CDEUL Series - Extended Range Buffer Networks (Inductive Input)

CDEUL Series



60 Hz Models Only

Filter Cabinet

- Modified NEMA 1, 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:

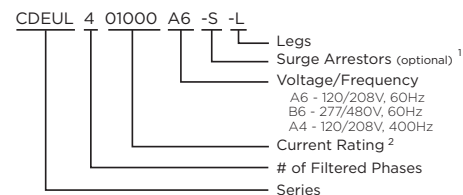
MIL-PRF-15733 — Filters, radio interference
MIL-STD-202 — Test methods for Components
MIL-STD-220A — Test method of Insertion Loss
MIL-STD-188-125 — HEMP
MIL-STD-285 — Test method for Shielding Effectiveness
NFPA 70-1987 — National Electric Code
486A - 1983 — Wire Connectors and Lug
UL1283 — UL standard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

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



Shown with optional legs
Center mounting bracket not installed on all sizes

How to Order:



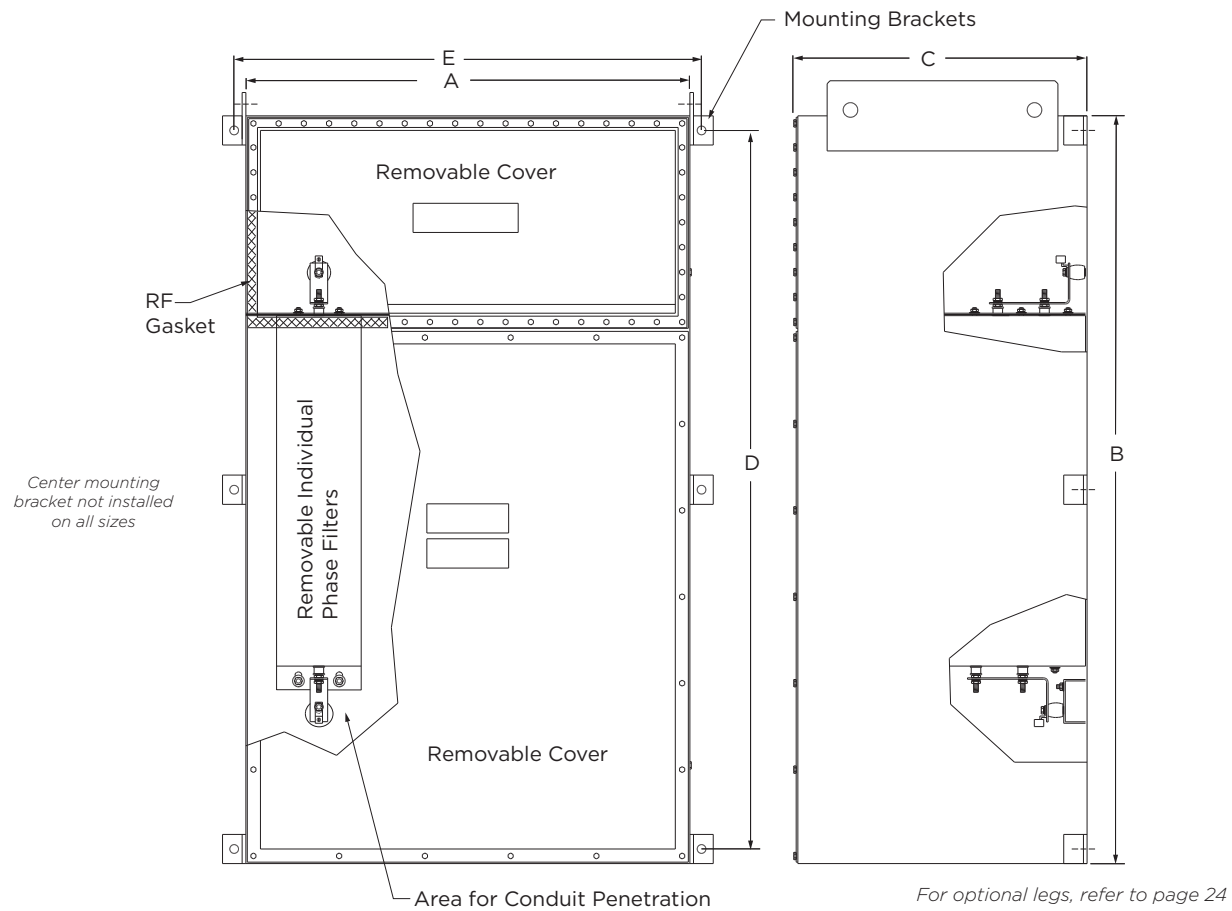
Examples:

CDEUL401000A6-S-L =
 4, 1000A CDEUL, 120/208V 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

CDEUL Series - ERBN (Inductive Input) *(continued)*



Recommended torque for fasteners on removable cover: 25 in. lb. $\pm$ 3 in. lb.

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

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

Max. Operating Voltage

A6:	120/208V, 60 Hz
B6:	277/480V, 60 Hz
A4*:	120/208V, 400 Hz

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