

TECUL Series - Extended Range Buffer Networks (Inductive Input)

TECUL Series

Filter Cabinet

- Modified NEMA 1, constructed of not less than #14 gauge CRS with galvanized bulkhead
- WHITE epoxy finish to all non-conductive surfaces
- Brush-plated electro-tin on all 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 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-220B, 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-220B — Test method of Insertion Loss
MIL-STD-188-125-1 — 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 $\geq 225A$. For filters rated $\leq 150A$ refer to the CDEUL Series on page 12.

Intertek Listed Filter Panel

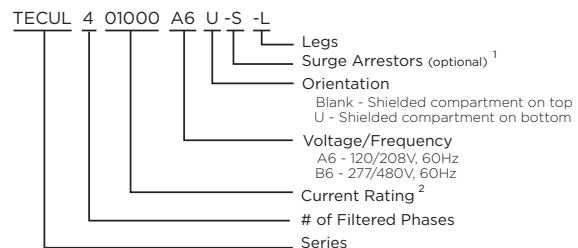


UL Recognized Filters



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

How to Order:



Examples:

TECUL401000A6-S-L =
4 phases 1000A (each consisting of 3, 400A TECUL 120/208V filters) in a cabinet with surge arrestors and legs

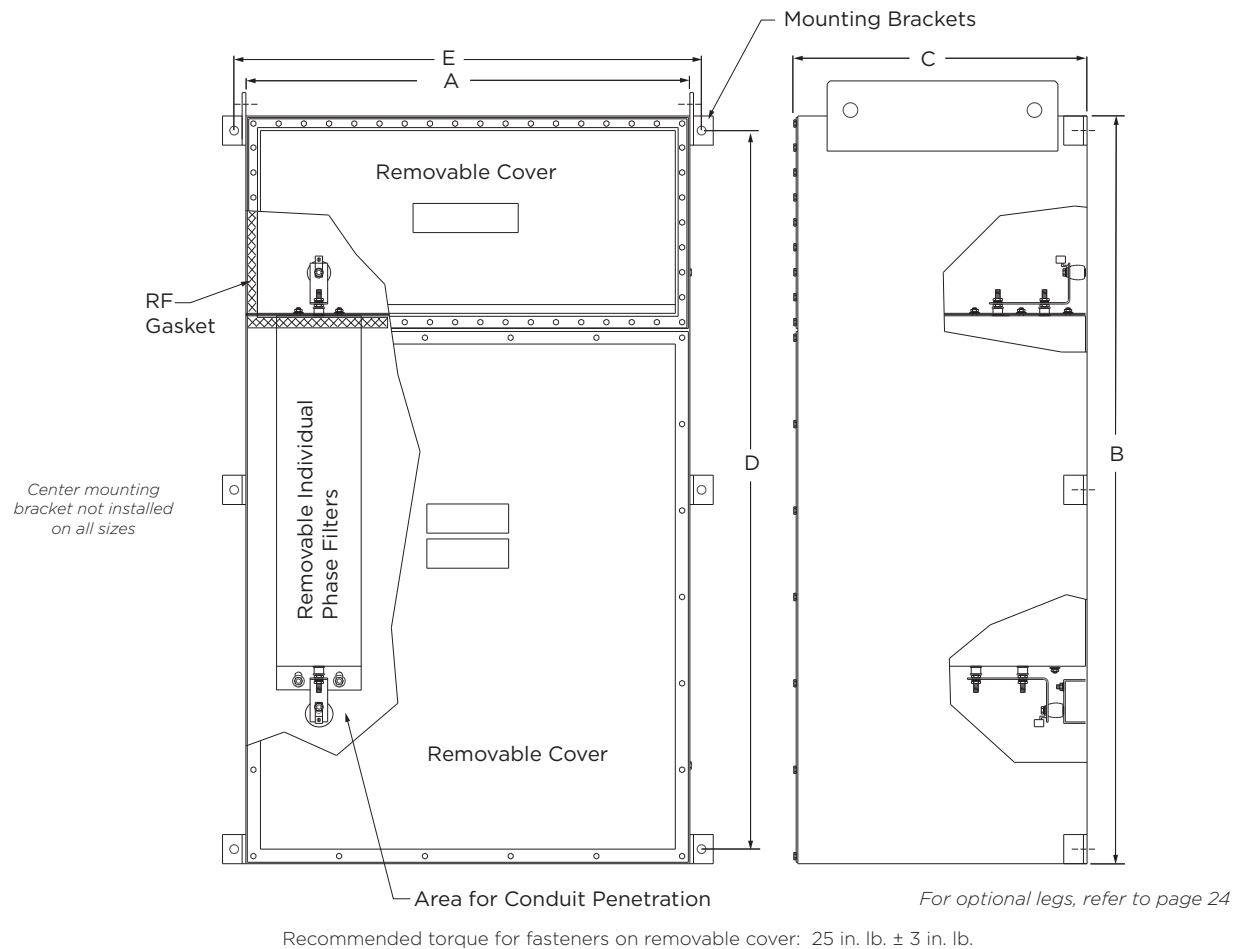
TECUL300225B6 =
3 phases 225A TECUL, 277/480V filters in cabinet

Note 1: Surge Arrestor for A6 Models: V251BA60

Surge Arrestor for B6 Models: V481BA60

Note 2: Current rating always listed as 5 digits with leading zeros

TECUL Series - ERBN (Inductive Input) (continued)



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

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

# 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