

Shielded-Facility Room Power Line Filters

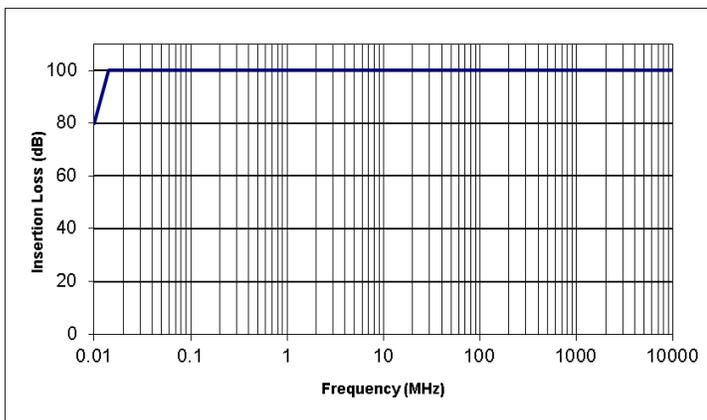
Enclosure

- ◆ Modified: NEMA 1 type enclosure
- ◆ Cabinet Material: Stainless Steel construction
- ◆ Filter insert case material: Cold rolled steel construction with a corrosion resistant plating
- ◆ Epoxy paint optional
- ◆ Shielding effectiveness measured on clean side greater than 100 dB from 14KHz or 100KHz to 10 GHz
- ◆ Dual removable access covers

Specifications

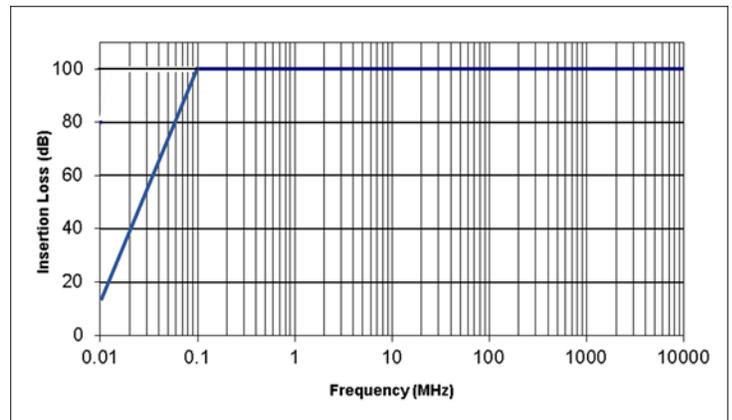
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|-----------------------------------|--|
| ◆ Voltage Rating | 277/480 VAC @ 60 Hz |
| ◆ Current Rating | 50 through 800 Amperes |
| ◆ Insulation Resistance | Per MIL-PRF-15733, prior to discharge resistor installation. |
| ◆ Dielectric Withstanding Voltage | 2250 VDC line-to-chassis per MIL-STD-202, Method 301 prior to installation of discharge resistor |
| ◆ Voltage Drop | Less than 1% of rated voltage per paragraph 4.6.8 of MIL-PRF-15733 |
| ◆ Voltage Discharge | Discharge to less than 30 Volts within 30s after removal of power |
| ◆ Operating Temperature | -40° C to +65° C |
| ◆ Storage Temperature | -55° C to +105° C |
| ◆ Insertion Loss | Measured per MIL-STD-220 |

Curve 1, High Performance Minimum Insertion Loss



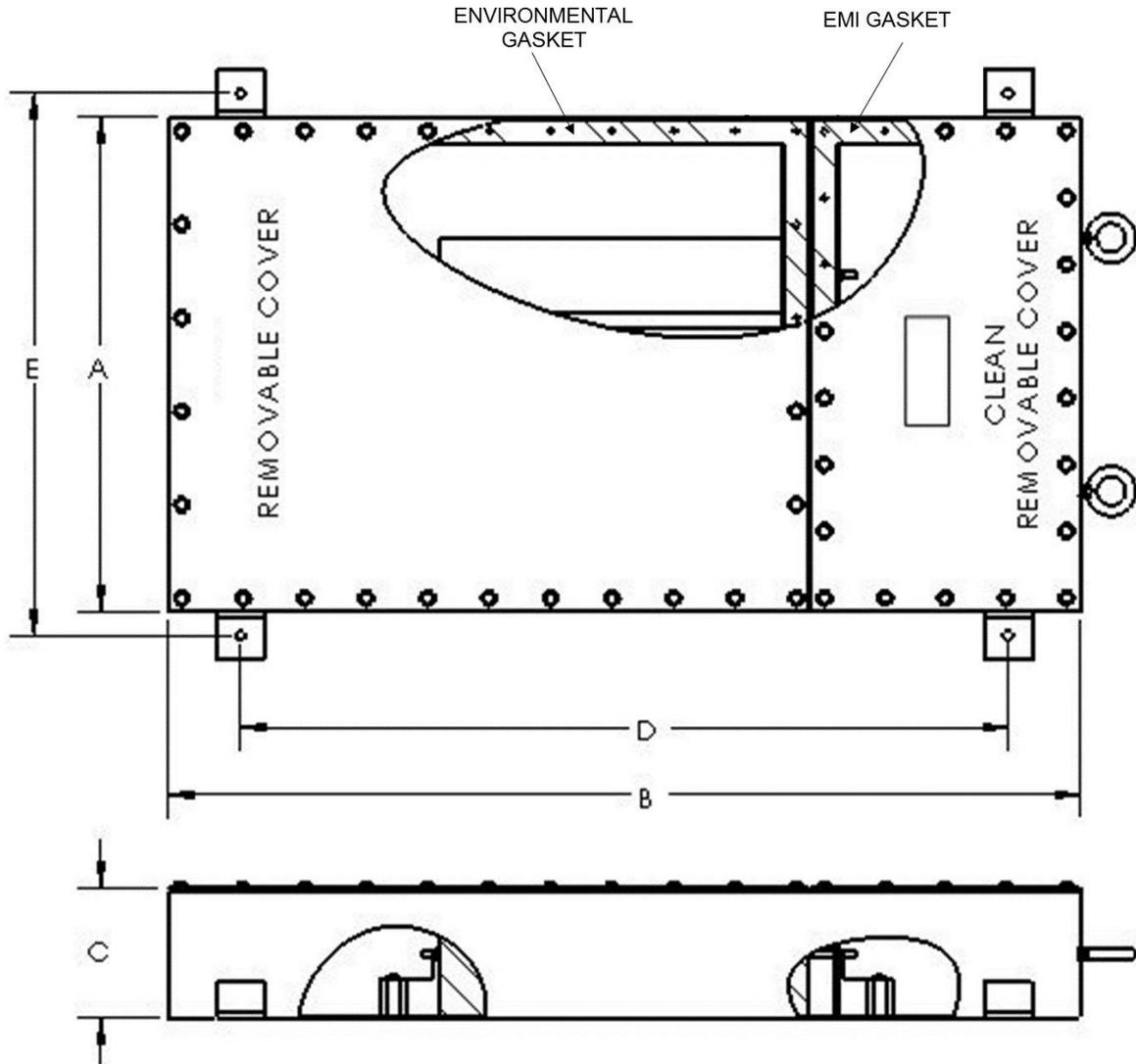
***100dB 14KHz to 10GHz**

Curve 2, Standard Performance Minimum Insertion Loss



***100dB 100KHz to 10GHz**

When installed with best grounding practice, additional shielding and Isolation between input and output compartments



Cabinet Supplied with Filter Inserts, 50 to 800 Amps
2, 3 and 4 Power Line filters Installed

High Performance Filters Cabinet Sizes

100dB, 14KHz to 1 GHz measured per MIL-STD-220, 50ohms system 10 to 100% load current

Filter P/N	No. of Lines	Current Rating	Size (in)					Estimated Wt. (lbs)
			A	B	C	D	E	
A-11030-2	2	50A	13.0	28.0	7	18.0	14.0	110
A-11030-3	3		19.0				20.0	175
A-11030-4	4		25.0				26.0	230
A-11031-2	2	100A	15.0	32.0	7.0	22.0	16.0	180
A-11031-3	3		21.0				22.0	280
A-11031-4	4		28.0				29.0	375
A-11032-2	2	150A	18.0	34.0	7.0	24.0	19.0	180
A-11032-3	3		25.0				26.0	280
A-11032-4	4		33.0				34.0	375
A-11033-2	2	200A	18.0	34.0	8.0	24.0	19.0	180
A-11033-3	3		25.0				16.0	280
A-11033-4	4		33.0				34.0	375
A-11034-2	2	300A	25.0	60.0	12.0	40.0	27.0	900
A-11034-3	3		38.0				40.0	1400
A-11034-4	4		50.0				52.0	1850
A-11035-2	2	400A	25.0	60.0	12.0	40.0	27.0	900
A-11035-3	3		38.0				40.0	1400
A-11035-4	4		50.0				52.0	1850
A-11036-2 ^{1/}	2	800A	50.0	60.0	12.0	40.0	52.0	900
A-11036-3 ^{2/}	3		1 x 50.0 1 x 25.0				1 x 52.0 1 x 27.0	2750
A-11036-4 ^{3/}	4		2 x 50.0				2 X 52.0	3700

Table 1

Notes:

1/ One A-11035-4 Cabinet (two 400 A filter lines connected in parallel for each phase) for a total of two 800A lines.

2/ One A-11035-4 cabinet (two 400A filter lines connected in parallel for each phase) and one A-11035-2 cabinet (two 400A filter lines connected in parallel for each phase) for a total of three 800A lines.

3/ Two A-11035-4 cabinets (two 400A filter lines connected in parallel for each phase) for a total of four 800A lines.

Standard Performance Filters Cabinet Sizes

100dB, 100KHz to 1 GHz measured per MIL-STD-220, 50 ohms system 10 to 100% load current

Filter P/N	No. of Lines	Current Rating (A)	Size (in)					Estimated Wt. (lbs)
			A	B	C	D	E	
A-11037-2	2	50A	13.0	24.0	7.0	14.0	14.0	90
A-11037-3	3		19.0				20.0	140
A-11037-4	4		25.0				26.0	180
A-11038-2	2	100A	15.0	26.0	7.0	16.0	16.0	90
A-11038-3	3		22.0				23.0	140
A-11038-4	4		28.0				29.0	180
A-11039-2	2	150A	18.0	28.0	7.0	18.0	19.0	150
A-11039-3	3		26.0				27.0	225
A-11039-4	4		34.0				35.0	300
A-11040-2	2	200A	18.0	28.0	8.0	18.0	19.0	150
A-11040-3	3		26.0				27.0	225
A-11040-4	4		34.0				35.0	300
A-11041-2	2	300A	24.0	46.0	12.0	26.0	26.0	550
A-11041-3	3		35.0				37.0	850
A-11041-4	4		46.0				48.0	1125
A-11042-2	2	400A	24.0	46.0	12.0	26.0	26.0	550
A-11042-3	3		35.0				37.0	850
A-11042-4	4		46.0				48.0	1125
A-11043-2 ^{1/}	2	800A	46.0	46.0	12.0	26.0	48.0	550
A-11043-3 ^{2/}	3		1 x 46.0 1 x 24.0				1 X 48.0 1 X 26.0	1700
A-11043-4 ^{3/}	4		2 x 46.0				2 X 48.0	2250

Table 2

Notes:

1/ One A-11042-4 Cabinet (two 400 A filter lines connected in parallel for each phase) for a total of two 800A lines.

2/ One A-11042-4 cabinet (two 400A filter lines connected in parallel for each phase) and one A-11042-2 cabinet (two 400A filter lines connected in parallel for each phase) for a total of three 800A lines.

3/ Two A-11042-4 cabinets (two 400A filter lines connected in parallel for each phase) for a total of four 800A lines.