3-Phase WYE RFI Power Line Filters For High Noise Applications

AMI-M31NB Series

Metal Enclosure Three Phase Single Stage Filters

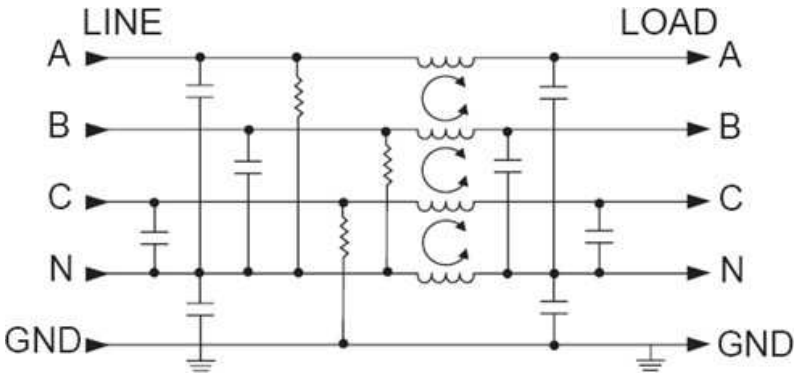
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AMI Designation	Input/output Style	Current Rating	Inductance mH	Capacitance		Resistor KΩ	Max Leakage Current @ 120 VAC 60Hz/277 VAC 50Hz mA	TIL Insertion Loss	Case Style
		A	L mH	Cx nF	Cy pF				
Available Part Numbers	**Threaded Bolts**								
AMI-M31NB-10-25-E (3.96*6600*2000000*300)	10	25	3.96	6600	2000000	330	68/118	001	A
AMI-M31NB-10-63-E	10	63	1.00	8800	2000000	330	74/128	002	A
AMI-M31NB-10-110-E	10	110	0.53	8800	1630000	330	74/129	002	A
AMI-M-31NB-10-180-E (.35*13200*3000000*330)	10	180	0.35	13200	3000000	330	111/192	002	B

*95mm Terminal Block available only on 150A

Electrical Schematic

AMI-M31NB



SPECIFICATIONS:

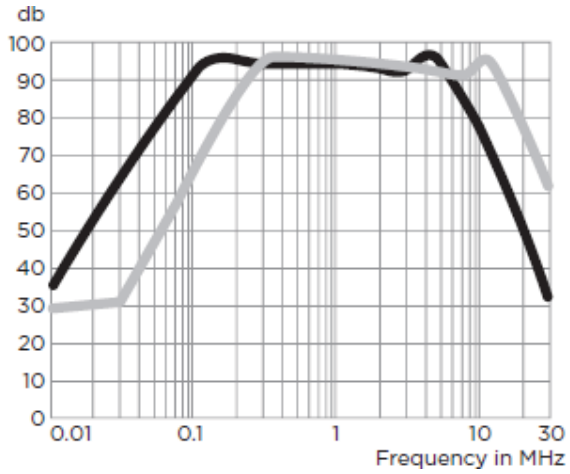
- Rated Voltage (max): Phase to Phase: 480 VAC, Phase to Neutral/Ground: 277 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 16 to 200 A
- Hi-pot Rating (one minute): Line to Ground: 1850 VDC
  Line to Line: 1850 VDC
  Line to Neutral: 1450 VDC
- **Operating Ambient Temperature Range (at rated current Ir):**-10°C to +40°C. In an ambient temperature (Ta) higher than +40°C the maximum operating current (Io) is calculated as follows: Io = Ir sqrt [(85-Ta)/45]

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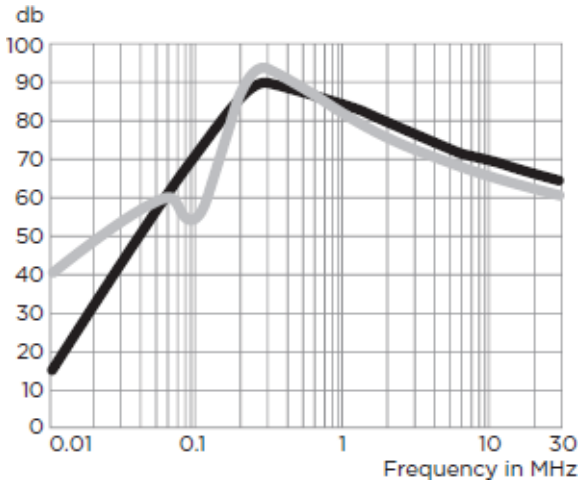
Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system

TIL-001



TIL-002



Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz							
Part No.	**.01**	**.05**	**.1**	**.5**	**1**	**5**	**10**	**30**
AMI-M31NB-10-25-E	26	68	83	93	88	68	45	4
AMI-M31NB-10-63-E	11	57	72	90	87	69	44	4
AMI-M31NB-10-110-E	10	52	60	88	84	74	51	12
AMI-M31NB-10-180-E	3	53	55	97	89	81	56	20

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Differential Mode/Symmetrical (Line to Line)

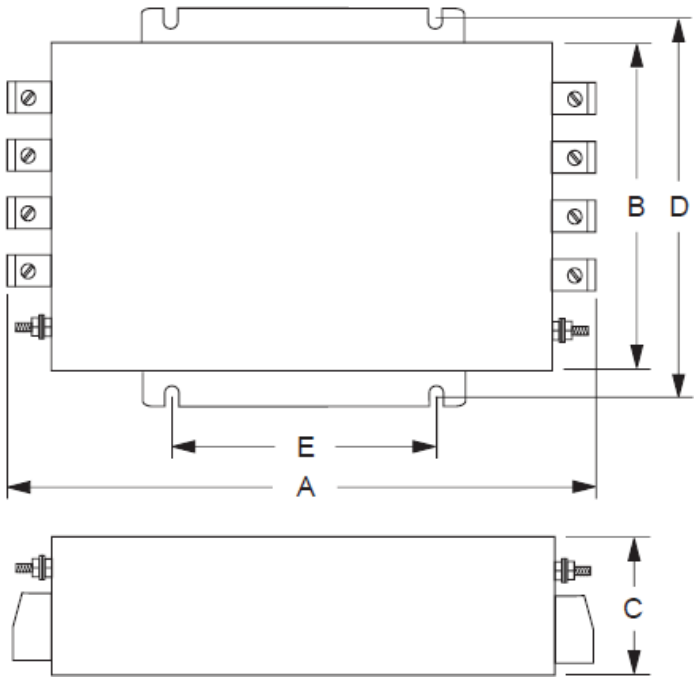
Current Rating	Frequency-MHz							
Part No.	**.01**	**.05**	**.1**	**.5**	**1**	**5**	**10**	**30**
AMI-M31NB-10-25-E	23	33	60	100	95	87	70	38
AMI-M31NB-10-63-E	28	46	42	83	75	61	58	44
AMI-M31NB-10-110-E	28	36	40	75	72	51	43	31
AMI-M31NB-10-180-E	30	41	50	70	64	49	42	26

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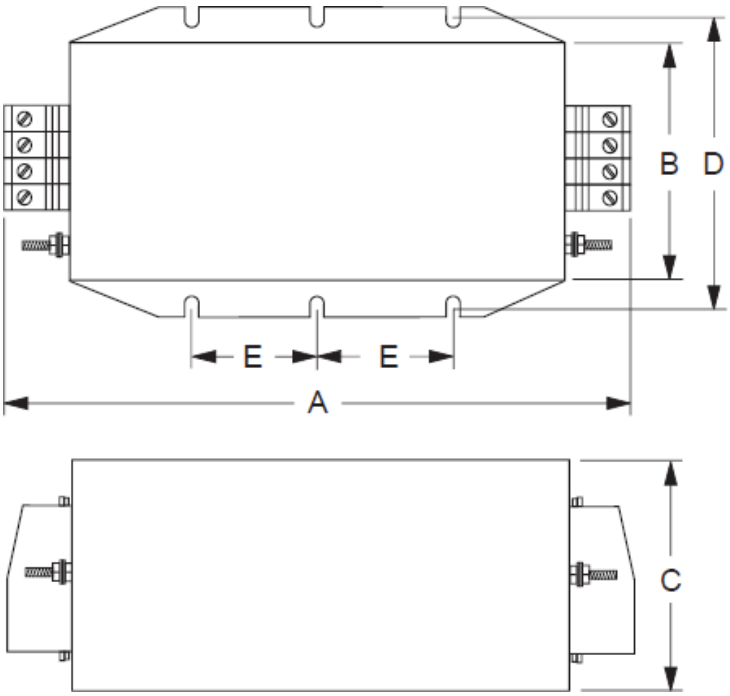
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Case Styles

STYLE A



STYLE B



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3-Phase WYE RFI Power Line Filters For High Noise Applications

Terminals:

Part No.	Terminal	Size	Torque max. lbf-in [N-m]
AMI-M31NB-10-25-E	Ground Line/Load	M5 6mm² Terminal Block	26.58 [3.0] 15.93 [1.8]
AMI-M31NB-10-63-E	Ground Line/Load	M6 25mm² Terminal Block	26.58 [3.0] 18 [2.0]
AMI-M31NB-10-110-E	Ground Line/Load	M10 95mm² Terminal Block	177.0 [20.0] 177.0 [20.0]
AMI-M31NB-10-180-E	Ground Line/Load	M10 95mm² Terminal Block	177.0 [20.0] 177.0 [20.0]

Case Dimensions:

Model Number	A max	B max	C max	D $^{\pm .015}_{\pm .38}$	E max
AMI-M31NB-10-25-E	9.96”/246mm	5.08”/129.0mm	2.52”/64.0mm	5.71”/145.0mm	4.53”/115mm
AMI-M31NB-10-63-E	10.99"/279.0mm	5.12"/130.0mm	2.95"/75.0mm	5.71"/145.0mm	4.53"/115.0mm
AMI-M31NB-10-110-E	12.13"/308.0mm	5.59"/142.0mm	5.55"/141.0mm	6.10"/155.0mm	4.53"/115.0mm
AMI-M31NB-10-180-E	15.71”/399.0mm	5.55”/141.0mm	5.55”/141.0mm	6.10”/155.0mm	3.25”/82.5mm

*95mm Terminal Block available only on 150A

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