

Medium Performance Compact EMI Power Inlet Filter



AMI-M11AC/AD Series

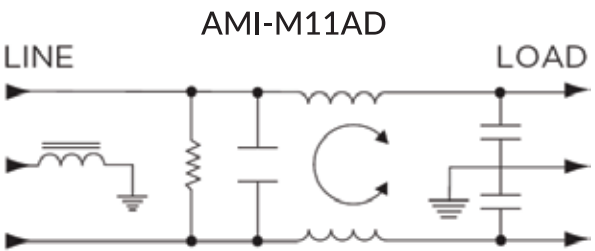
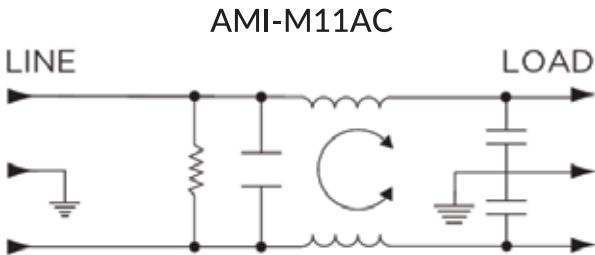
Metal Enclosure Single Phase Stage Filter

AMI Designation	Input/output Style				Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/250 VAC 50 Hz	TIL Insertion Loss	Case Style
	IEC Socket						Cx	Cy				
Available Part Numbers	0.250 Spade Terminals		Wire Leads			mH	nF	pF		mA		
	Back	Bottom	Back	Bottom								
AMI-M11AC-1-1-B	1	-	-	-	1	3.7	100	3000	1500	0.22/0.38	001	A
AMI-M11AC-1-3-B	1	-	-	-	3	2	100	3000	1500	0.22/0.38	002	A
AMI-M11AC-1-6-B	1	-	-	-	6	0.93	100	3000	1500	0.22/0.38	003	A
AMI-M11AC-1-10-B	1	-	-	-	10	0.36	100	3000	3300	0.22/0.38	005	A
AMI-M11AC-1-15-B	1	-	-	-	15	0.198	100	3000	3300	0.22/0.38	006	A
AMI-M11AC-1A-1-B	-	1A	-	-	1	3.7	100	3000	3300	0.22/0.38	001	B
AMI-M11AC-1A-3-B	-	1A	-	-	3	2	100	3000	1500	0.22/0.38	002	B
AMI-M11AC-1A-6-B	-	1A	-	-	6	0.93	100	3000	3300	0.22/0.38	003	B
AMI-M11AC-4-1-B	-	-	-	4	1	3.7	100	3000	3300	0.22/0.38	001	C
AMI-M11AC-4-3-B	-	-	-	4	3	2	100	3000	3300	0.22/0.38	002	C
AMI-M11AC-4-6-B	-	-	-	4	6	0.93	100	3000	3300	0.22/0.38	003	C
AMI-M11AC-8-1-B	-	-	8	-	1	3.7	100	3000	3300	0.22/0.38	001	D
AMI-M11AC-8-3-B	-	-	8	-	3	2	100	3000	3300	0.22/0.38	002	D
AMI-M11AC-8-6-B	-	-	8	-	6	0.93	100	3000	3300	0.22/0.38	003	D
AMI-M11AC-8-15-B	-	-	8	-	15	0.198	100	3000	3300	0.22/0.38	006	D
AMI-M11AD-1-6-B	1	-	-	-	6	0.93	100	3000	1500	0.22/0.38	004	A
AMI-M11AD-1-10-B	1	-	-	-	10	0.36	100	3000	3300	0.22/0.38	005	A
AMI-M11AD-4-6-B	-	-	-	4	6	0.93	100	3000	3300	0.22/0.38	004	C
AMI-M11AD-8-6-B	-	-	8	-	6	0.93	100	3000	3300	0.22/0.38	004	D

*11AD models include ground circuit inductor

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Electrical Schematic



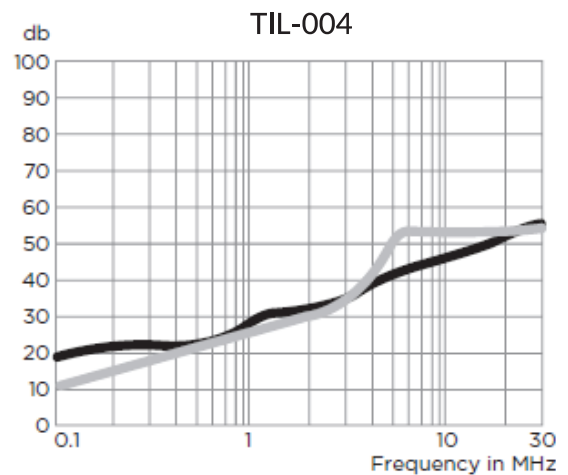
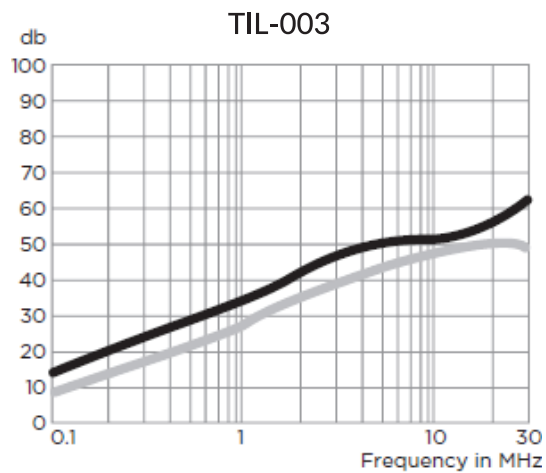
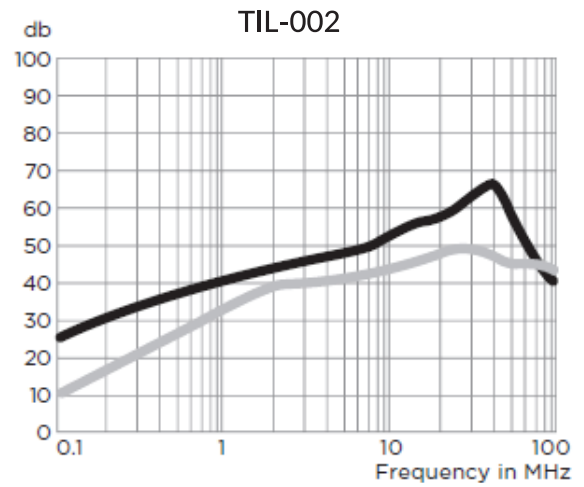
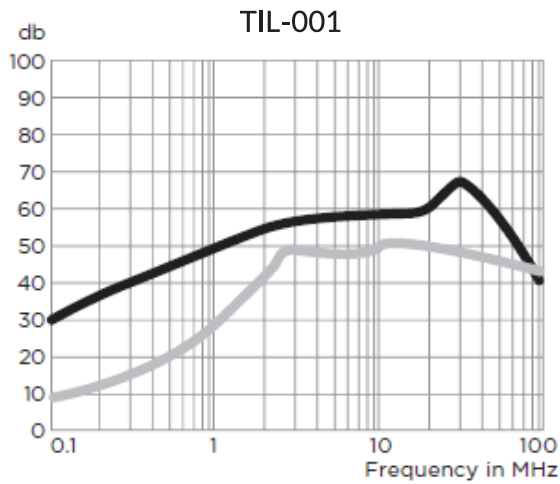
Specifications:

- Rated Voltage (max): 250 VAC
- Operating Frequency: 50/60 Hz
- Operating Current: 1 to 15A
- Hi-pot Rating (one minute): Line to Ground: 2250 VDC
Line to Line: 1450 VDC
- Operating Ambient Temperature Range (at rated current I_r): -10°C to $+40^{\circ}\text{C}$. In an ambient temperature (T_a) higher than $+40^{\circ}\text{C}$ the maximum operating current (I_o) is calculated as follows: $I_o = I_r \sqrt{[(85 - T_a)/45]}$

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Performance Data Typical Insertion Loss

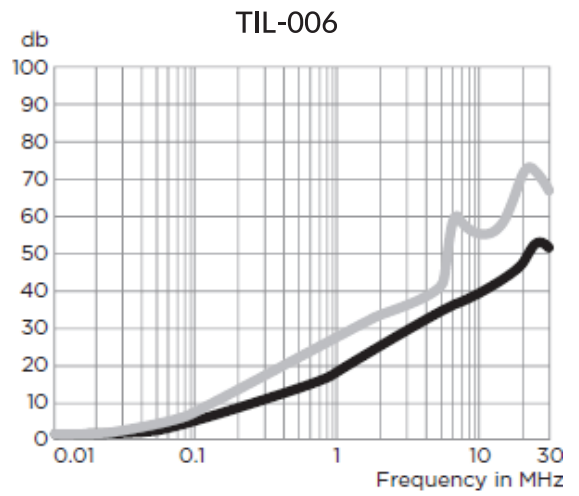
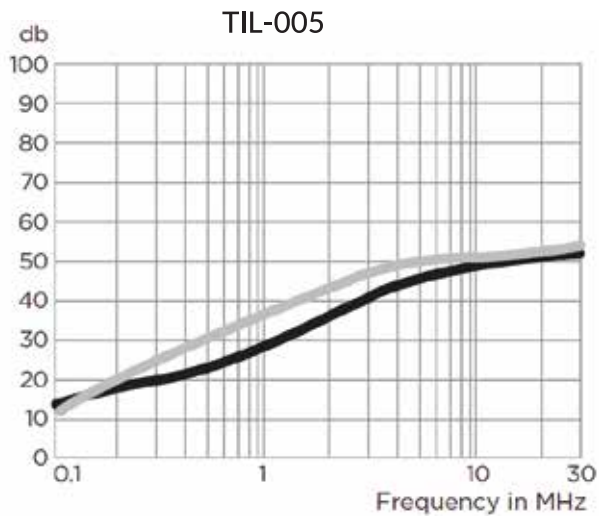
Measured in closed 50 Ohm system



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Performance Data Typical Insertion Loss

Measured in closed 50 Ohm system



— Common Mode / Asymmetrical (L-G)
— Differential Mode / Symmetrical (L-L)

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Minimum Insertion Loss

Measured in closed 50 Ohm system

Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30
AMI-M11AC-X-1-B (X=1 1A 4 8)	24	35	42	49	52	54
AMI-M11AC-X-3-B (X=1 1A 4 8)	20	29	36	45	50	54
AMI-M11AC-X-6-B (X=1 1A 4 8)	14	23	30	41	45	50
AMI-M11AC-1-10-B AMI-M11AD-1-10-B	8	14	20	35	39	45
AMI-M11AC-1-15-B (X=1 8)	4	9	12	28	34	40
AMI-M11AD-1-6-B	14	20	25	37	42	50
AMI-M11AD-X-6-B (X=4 8)	14	20	25	37	42	50

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Minimum Insertion Loss

Measured in closed 50 Ohm system

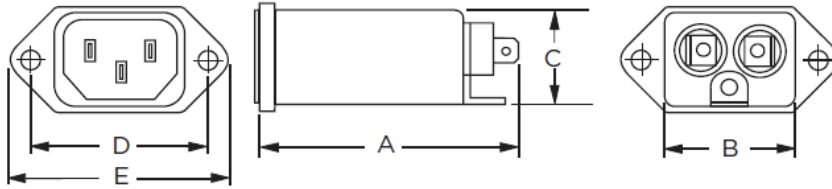
Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz					
	.15	.5	1	5	10	30
AMI-M11AC-X-1-B (X=1 1A 4 8)	3	15	20	37	37	36
AMI-M11AC-X-3-B (X=1 1A 4 8)	3	15	20	37	37	36
AMI-M11AC-X-6-B (X=1 1A 4 8)	3	15	20	31	35	34
AMI-M11AC-1-10-B AMI-M11AD-1-10-B	6	15	20	23	44	47
AMI-M11AC-1-15-B (X=1 8)	6	18	23	33	44	47
AMI-M11AD-1-6-B	7	17	23	36	42	42
AMI-M11AD-X-6-B (X=4 8)	7	17	23	29	38	42

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Case Styles

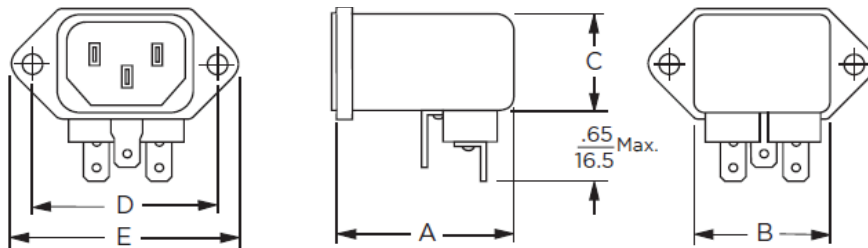
STYLE A



Typical Dimensions:

Mounting holes (2):	.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1):	.250 [6.3] with .07 x .16 [1.8 x 3.8] slot

STYLE B



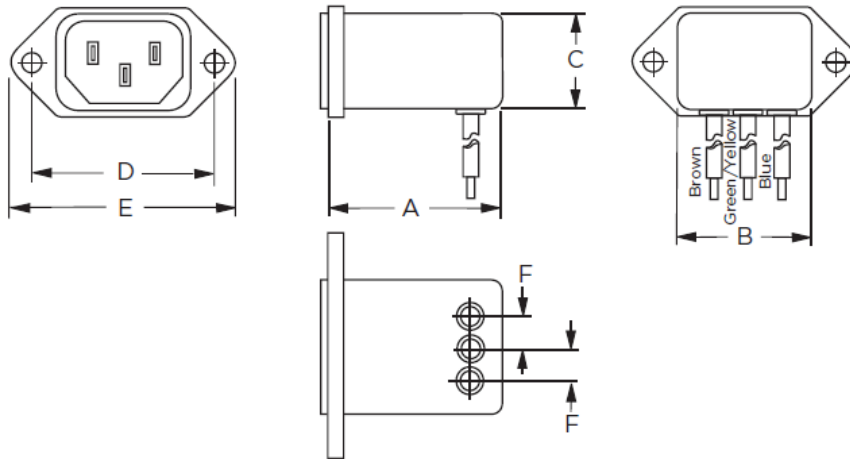
Typical Dimensions:

Mounting holes (2):	.132 [3.35] Dia. with .236 [5.99] Dia. x 90° countersink for #4 flathead screw
Line Inlet (1):	IEC 60320-1 C14
Load Terminals (2):	.250 [6.3] with .07 [1.8] Dia. hole
Ground Terminal (1):	.250 [6.3] with .07 x .16 [1.8 x 3.8] slot

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Case Styles

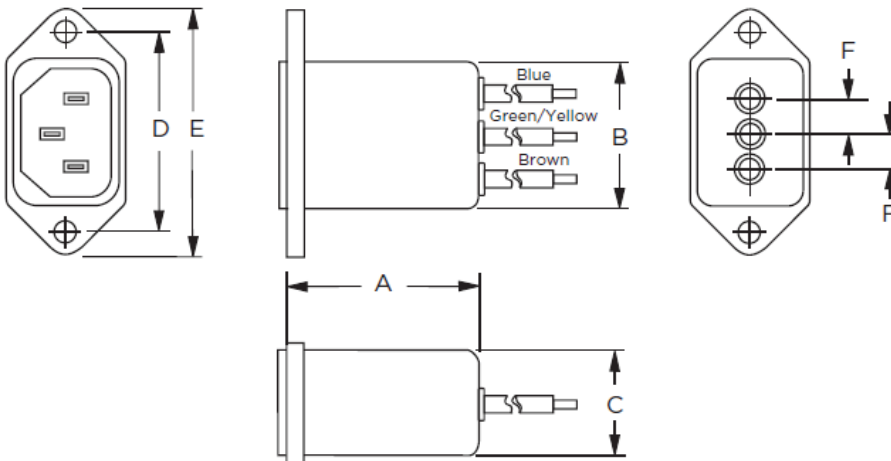
STYLE C



Typical Dimensions:

Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90°
countersink for #4 flathead screw
Line Inlet (1): IEC 60320-1 C14
Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

STYLE D

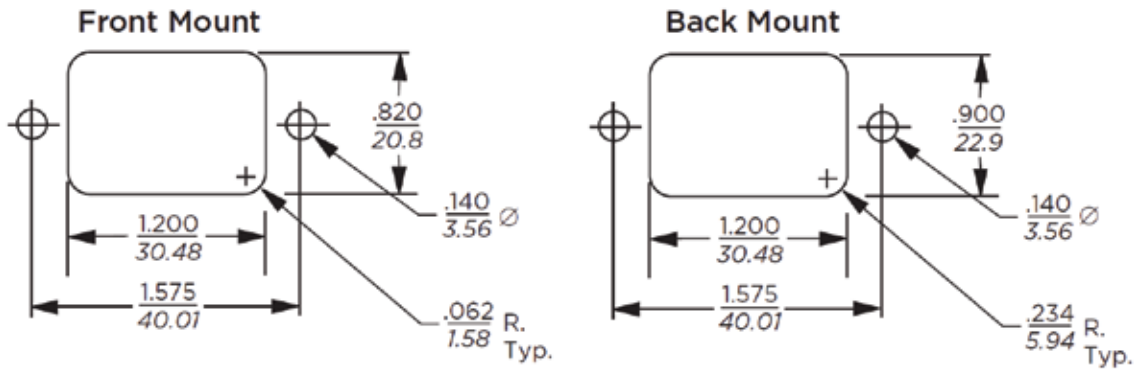


Typical Dimensions:

Mounting holes (2): .132 [3.35] Dia. with .236 [5.99] Dia. x 90°
countersink for #4 flathead screw
Line Inlet (1): IEC 60320-1 C14
Wire Leads: 4.0 [101.6] Min., 18AWG, UL1015

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Recommended Panel Cutouts



Tolerances $\pm .005$ [0.13] unless otherwise noted

Note 1: EC1 and EC8 allow for front or back mounting

Note 2: EC2 and EC4 allow for back mounting only

Note:

AMI-M11AC-1-X-B (X=1, 3, 6, 10, 15)	Allow for front or back mounting
AMI-M11AC-8-X-B (X=1, 3, 6, 15)	
AMI-M11AD-1-X-B (X=6, 10)	
AMI-M11AD-8-6-B	
AMI-M11AC-1A-X-B (X=1, 3, 6)	Allow for back mounting only
AMI-M11AC-4-X-B (X=1, 3, 6)	
AMI-M11AD-4-6-B	

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Case Dimensions:

Model Number	A max	B max	C max	D $\begin{smallmatrix} \pm.015 \\ \pm.38 \end{smallmatrix}$	E max	F max
AMI-M11AC-1-X-B (X=1 3 6)	2.21"/56.0mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AC-1A-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.85"/21.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AC-4-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.85"/21.6mm	1.575"/40.01mm	1.98"/50.3mm	0.295"/7.5mm
AMI-M11AC-8-X-B (X=1 3 6)	1.55"/39.4mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	0.295"/7.5mm
AMI-M11AD-1-6-B	2.62"/66.5mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AD-4-6-B	1.98"/50.3mm	1.19"/30.2mm	0.85"/21.6mm	1.575"/40.01mm	1.98"/50.3mm	0.295"/7.5mm
AMI-M11AD-8-6-B	1.98"/50.3mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	0.295"/7.5mm
AMI-M11AC-1-10-B AMI-M11AD-1-10-B AMI-M11AC-1-15-B	2.62"/66.5mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-
AMI-M11AC-8-15-B	1.98"/50.3mm	1.19"/30.2mm	0.81"/20.6mm	1.575"/40.01mm	1.98"/50.3mm	-