

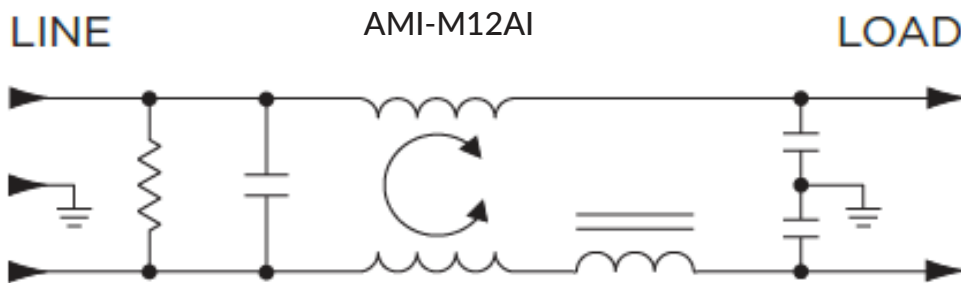
# Compact Size, High Attenuation RFI Power Line Filter

## AMI-12AI Series

Metal Enclosure Single Phase Dual Stage

AMI Designation	Input/output Style	Current Rating	Inductance	Capacitance		Resistor	Leakage Current @ 120 VAC 60Hz/277 VAC 60 Hz	Case Style
			L	Cx nF	Cy pF	KΩ		
Available Part Numbers	Wire Leads		mH	nF	pF		mA	
AMI-M12AI-3-0.5-B	3	0.5	0.89	330	2200	1000	0.12/0.28	A
AMI-M12AI-3-2-B	3	2	0.89	330	2200	1000	0.12/0.28	A
AMI-M12AI-3-3-B	3	3	0.42	330	2200	1000	0.12/0.28	A
AMI-M12AI-3-5-B	3	5	0.42	330	2200	1000	0.12/0.28	A

## Electrical Schematic



## Specifications:

- Rated Voltage (max): 277 VAC/277 VDC
- Operating Frequency: 50/60 Hz
- Operating Current: 0.5 to 5 A
- Hi-pot Rating (one minute): Line to Ground: 2300 VDC  
Line to Line: 1853 VDC
- Operating Ambient Temperature Range (at rated current  $I_r$ ): -10°C to +40°C. In an ambient temperature ( $T_a$ ) higher than +40°C the maximum operating current ( $I_o$ ) is calculated as follows:  $I_o = I_r \sqrt{[(85 - T_a)/45]}$

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## Minimum Insertion Loss

### Common Mode/Asymmetrical (Line to Ground)

Current Rating	Frequency-MHz										
Part No.	0.03	0.05	0.1	0.15	0.5	1	2	5	10	20	30
AMI-M12AI-3-0.5-B	7	11	15	17	29	35	44	48	50	44	48
AMI-M12AI-3-2-B	6	10	16	19	31	37	45	48	50	47	47
AMI-M12AI-3-3-B	3	4	9	11	23	29	36	44	47	53	56
AMI-M12AI-3-5-B	3	5	8	12	24	29	37	44	46	50	54

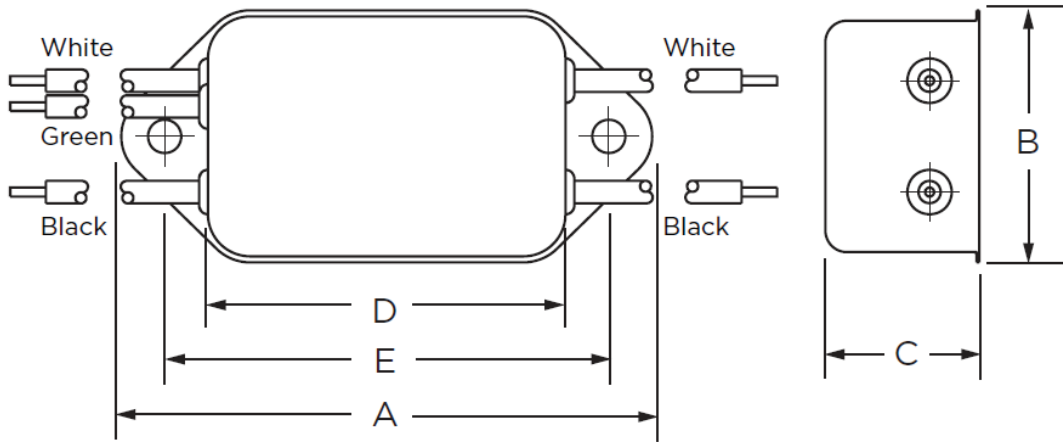
### Differential Mode/Symmetrical (Line to Line)

Current Rating	Frequency-MHz										
Part No.	0.03	0.05	0.1	0.15	0.5	1	2	5	10	20	30
AMI-M12AI-3-0.5-B	9	14	23	28	46	54	59	58	57	48	47
AMI-M12AI-3-2-B	9	14	23	28	46	54	59	54	50	46	45
AMI-M12AI-3-3-B	9	13	20	24	40	50	57	50	54	50	48
AMI-M12AI-3-5-B	9	13	19	23	34	43	50	54	53	50	47

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## Case Styles

### STYLE A



## Case Dimensions:

Model Number	A max	B max	C max	D max	E $\frac{\pm 0.02}{+0.51}$
AMI-M12AI Models	3.0"/76.2mm	1.42"/36.07mm	0.875"/22.23mm	2.03"/51.56mm	2.5"/63.5mm