

General EMI Filter with High Attenuation Performance

Dual-Stage General Purpose EMI Filter AMI-26 Series



- Rated current from 1 to 30 A
- Dual-stage filter
- High differential mode performance
- Optional medical version (Type B)
- Optional safety version (Type A)

Approvals:



Technical Specifications

Maximum continuous operating voltage: 250VAC, 50/60Hz

Operating frequency: DC to 400Hz

Rated currents: 1 to 30A @ 40°C max.

High potential test voltage: L → PE 3000VDC for 2 sec (standard types)

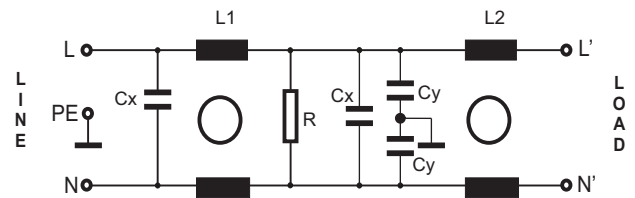
L → PE 3500VDC for 2 sec (B types)

L → N 1100VDC for 2 sec

Temperature range (operation and storage): -25°C to +100°C (25/100/21)

Design corresponding to: UL 1283.

CIRCUIT DIAGRAM:



Features and Benefits

- AMI-26 dual-stage filters are designed for easy and fast chassis mounting.
- The AMI-26 filters are also available as B versions with no Y-capacitors for medical applications as well as A versions with low capacitance for safety critical applications with requirements for low leakage currents.
- All filters provide a general purpose conducted attenuation performance, based on chokes with high saturation resistance and excellent thermal behavior.
- The AMI-26 Filter can be use to cover a broad range of uses and they offer a good size/amperage ratio
- AMI-26 filters are also available as single stage filters (AMI-21 series).
- Various terminal options allow you to select the desire connection style.

Typical Applications

- Consumer electronics
- Computing & accessories
- Residential appliances
- Medical accessories
- Electronic data processing equipment
- Office automation equipment
- Power supplies
- Machinery
- Various noisy application requires good attenuation performance filter

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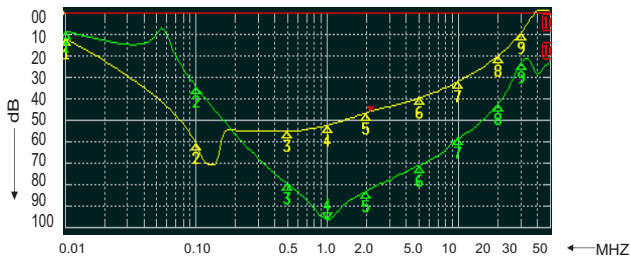
FILTER SELECTION TABLE

| | Rated current @40°C | Leakage current @ 250VAC/50Hz (@ 120VAC/60Hz) | Inductance ΣL | Capacitance ΣC_x | Capacitance ΣC_y | Resistance ΣR | Connetion type | | |
|--------------|------------------------|---|--------------------------|-----------------------------|-----------------------------|--------------------------|----------------|---|---|
| | A | mA | mH | μF | nF | K_{Ω} | | | |
| AMI-26-1-X | 1 (1.2) | 0.74 (0.43) | 24 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26-3-X | 3 (3.5) | 0.74 (0.43) | 5 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26-6-X | 6 (6.9) | 0.74 (0.43) | 1.94 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26-10-X | 10 (11.5) | 0.74 (0.43) | 1.6 | 0.94 | 9.4 | 470 | 1 | 3 | |
| AMI-26-12-X | 12 (13.8) | 0.74 (0.43) | 1.16 | 0.94 | 9.4 | 470 | 1 | 3 | |
| AMI-26-16-X | 16 (18.4) | 0.74 (0.43) | 1.3 | 0.66 | 9.4 | 1000 | 1 | 3 | |
| AMI-26-20-X | 20 (23.0) | 0.74 (0.43) | 1.2 | 2.0 | 9.4 | 220 | 1 | 3 | 6 |
| AMI-26-30-X | 30 (34.5) | 0.74 (0.43) | 1.2 | 2.0 | 20 | 220 | | | 6 |
| | | | | | | | | | |
| AMI-26A-1-X | 1 (1.2) | 0.074 (0.04) | 24 | 0.44 | 0.94 | 1000 | 1 | 3 | |
| AMI-26A-3-X | 3 (3.5) | 0.074 (0.04) | 5 | 0.44 | 0.94 | 1000 | 1 | 3 | |
| AMI-26A-6-X | 6 (6.9) | 0.074 (0.04) | 1.94 | 0.44 | 0.94 | 1000 | 1 | 3 | |
| AMI-26A-10-X | 10 (11.5) | 0.074 (0.04) | 1.6 | 0.94 | 0.94 | 470 | 1 | 3 | |
| AMI-26A-12-X | 12 (13.8) | 0.074 (0.04) | 1.16 | 0.94 | 0.94 | 470 | 1 | 3 | |
| AMI-26A-16-X | 16 (18.4) | 0.074 (0.04) | 1.3 | 0.66 | 0.94 | 1000 | 1 | 3 | |
| AMI-26A-20-X | 20 (23.0) | 0.074 (0.04) | 1.2 | 2.0 | 0.94 | 220 | 1 | 3 | 6 |
| AMI-26A-30-X | 30 (34.5) | 0.074 (0.04) | 1.2 | 2.0 | 0.94 | 220 | | | 6 |
| | | | | | | | | | |
| AMI-26B-1-X | 1 (1.2) | 0.02 A @ 100V | 24 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26B-3-X | 3 (3.5) | 0.02 A @ 100V | 5 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26B-6-X | 6 (6.9) | 0.02 A @ 100V | 1.94 | 0.44 | 9.4 | 1000 | 1 | 3 | |
| AMI-26B-10-X | 10 (11.5) | 0.02 A @ 100V | 1.6 | 0.94 | 9.4 | 470 | 1 | 3 | |
| AMI-26B-12-X | 12 (13.8) | 0.02 A @ 100V | 1.16 | 0.94 | 9.4 | 470 | 1 | 3 | |
| AMI-26B-16-X | 16 (18.4) | 0.02 A @ 100V | 1.3 | 0.66 | 9.4 | 1000 | 1 | 3 | |
| AMI-26B-20-X | 20 (23.0) | 0.02 A @ 100V | 1.2 | 2.0 | 9.4 | 220 | 1 | 3 | 6 |
| AMI-26B-30-X | 30 (34.5) | 0.02 A @ 100V | 1.2 | 2.0 | 20 | 220 | | | 6 |

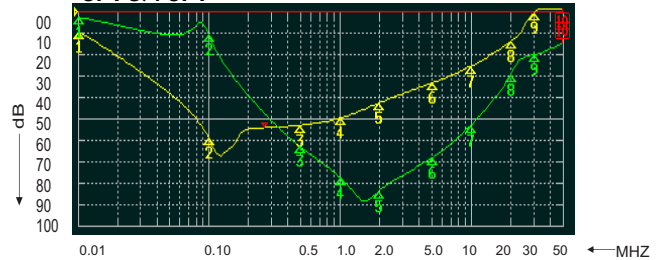
Where X denotes connection style

Insertion Loss: Common mode - —
 Differential mode - —

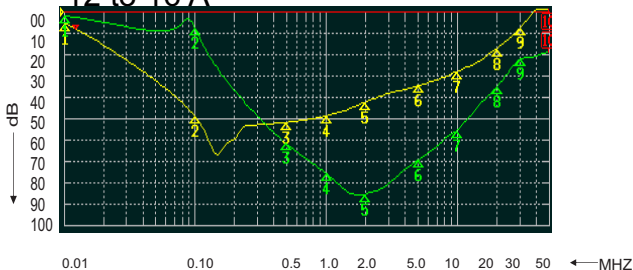
1 to 3 A



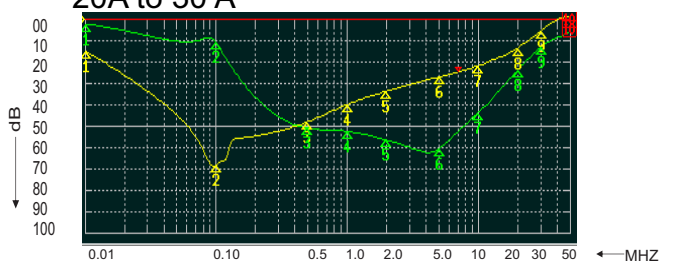
6A & 10A



12 to 16 A



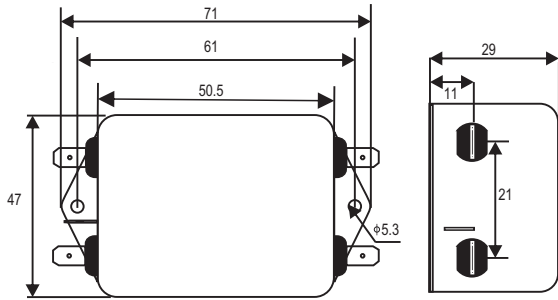
20A to 30 A



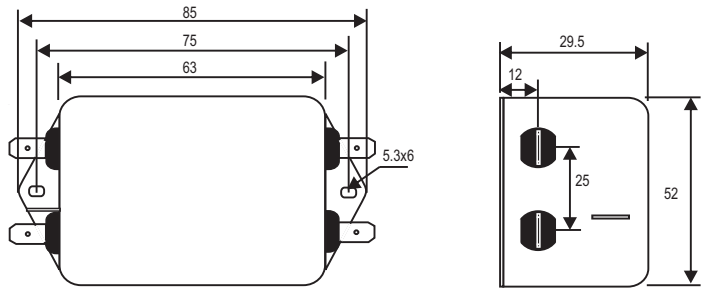
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MECHANICAL DIMENSION (mm):

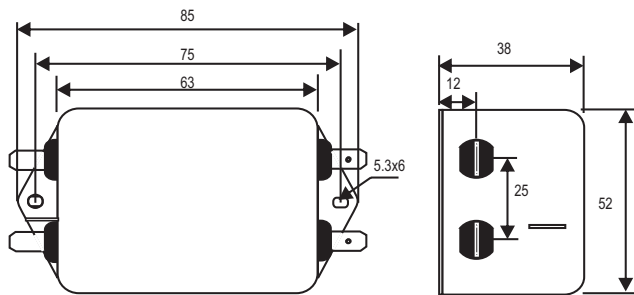
CONNECTION TYPE -1
1A to 6A



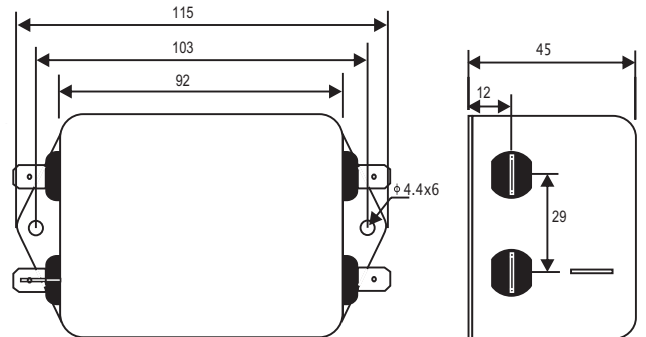
CONNECTION TYPE -1
10A & 12A



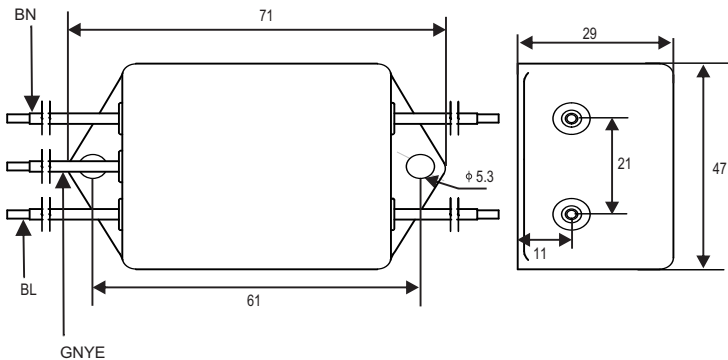
CONNECTION TYPE -1
16A



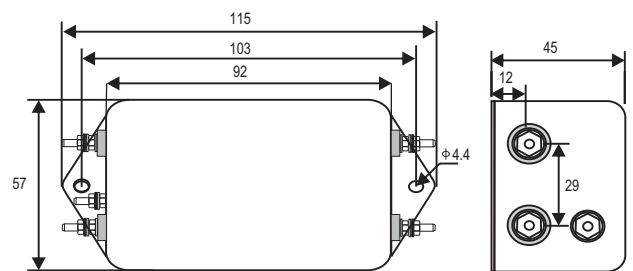
CONNECTION TYPE -1
20A



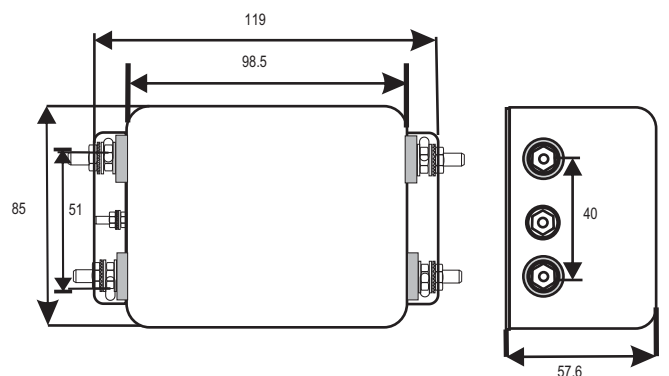
CONNECTION TYPE -3
20A



CONNECTION TYPE -6
20A



CONNECTION TYPE -6
30A



NOTE:

All Dimension in mm

- Connection type: 1 - Spade Terminals (6.3 x 0.8)
- 3 - Wire leads (140mm on both sides)
- 6 - Threaded Bolt Terminals (M4)