Electronic Components ELECT CHARGED:

FLLD3 - MH, 530/305 VAC, 7 -180 A High Performance Chassis Mount Three-Phase Filters

Overview

The three-phase filters are general-purpose, compact and slim, with terminal blocks for quick installation in industrial equipment. They are optimized in geometry, with high insertion-loss characteristics.

Applications

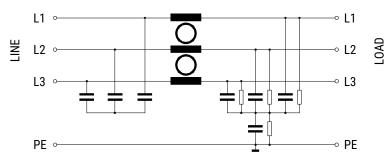
Typical applications include switch-mode power supplies, servo drives, robotics, regenerative drives, battery chargers, inverters, converters, power drives, UPS machines, process automation and other industrial applications.



Technical Specifications

| Item | Parameters/ Characteristics | | | | |
|-------------------|--|--|--|--|--|
| Rated Voltage | 530/305 VAC | | | | |
| Rated Frequency | 50 - 60 Hz | | | | |
| Rated Current | 7 – 180 A | | | | |
| Rated Temperature | 50°C | | | | |
| Temperature Range | -25°C to 100°C | | | | |
| Climate Category | 25/100/21 | | | | |
| Voltage Test | $P \rightarrow P 2,250 VDC$ $P \rightarrow E 3,000 VDC$ | | | | |

Typical Electrical Schematic





Technical Specifications cont'd

| Part Number | Rated Current at 50°C (A) | Power Loss at 25°C/50 Hz (W) | Leakage Current ¹ (mA) | Approximate Weight (kg) | |
|---------------|------------------------------|---------------------------------|--------------------------------------|----------------------------|--|
| FLLD3007AMHT3 | 7 | 4 | 3.1 | 0.5 | |
| FLLD3016AMHT3 | 16 | 6 | 3.1 | 0.7 | |
| FLLD3030AMHT3 | 30 | 12 | 4.7 | 1.1 | |
| FLLD3042AMHT3 | 42 | 15 | 4.7 | 1.4 | |
| FLLD3055AMHT5 | 55 | 20 | 4.7 | 2.0 | |
| FLLD3075AMHT5 | 75 | 30 | 4.7 | 3.2 | |
| FLLD3100AMHT6 | 100 | 32 | 4.7 | 4.5 | |
| FLLD3130AMHT6 | 130 | 40 | 4.7 | 4.5 | |
| FLLD3180AMHT7 | 180 | 45 | 4.7 | 5.1 | |

¹ Calculated according to IEC 60939. During fail conditions the current may be higher.

Approvals

| Standard | Certification Body | File Number | Mark |
|----------------------|--------------------|-------------|-------------|
| IEC/EN 60939-3 | UL-Demko | | 15 |
| ANSI/UL 60939-3-2016 | UL | E490803 | F1 ® |

Environmental Compliance

KEMET EMI filters are RoHS Compliant.





Typical Insertion Loss

100 Sym Asym

80

60

0.01

0.1

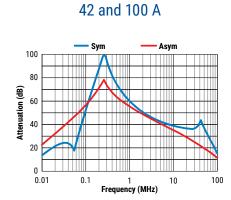
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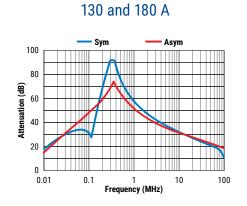
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100

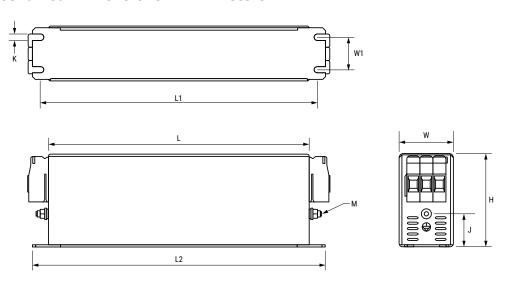
Frequency (MHz)

7 to 30 A





Mechanical Dimensions - Millimeters



| | Dimensions | | | | | | | | | | |
|---------------|------------|-----|-------|-----|-----|-----|----|-----|-----|-----------------------|-----------|
| Part Number | L L1 | L1 | L1 L2 | w | W1 | Н | J | K | M | Terminal Block | |
| | | | | | | | | | | Wire | Torque |
| | | | | | | | | | | (mm²) | (Nm) |
| FLLD3007AMHT3 | 160 | 180 | 190 | 40 | 20 | 70 | 22 | 4.5 | M5 | 1 - 10 | 1.2 - 1.5 |
| FLLD3016AMHT3 | 220 | 235 | 250 | 45 | 25 | 70 | 22 | 5.5 | M5 | 1 - 10 | 1.2 - 1.5 |
| FLLD3030AMHT3 | 240 | 255 | 270 | 50 | 30 | 85 | 30 | 5.5 | M5 | 1 - 10 | 1.2 - 1.5 |
| FLLD3042AMHT3 | 280 | 295 | 310 | 50 | 30 | 85 | 30 | 5.5 | M6 | 1 - 10 | 1.2 - 1.5 |
| FLLD3055AMHT5 | 220 | 235 | 250 | 85 | 60 | 90 | 26 | 5.5 | M6 | 10 - 25 | 3 – 4 |
| FLLD3075AMHT5 | 240 | 255 | 270 | 80 | 60 | 135 | 70 | 6.5 | M6 | 10 - 25 | 3 – 4 |
| FLLD3100AMHT6 | 240 | 255 | 270 | 90 | 65 | 150 | 64 | 6.5 | M10 | 16 - 50 | 6 – 8 |
| FLLD3130AMHT6 | 240 | 255 | 270 | 90 | 65 | 150 | 64 | 6.5 | M10 | 16 - 50 | 6 – 8 |
| FLLD3180AMHT7 | 350 | 365 | 380 | 120 | 102 | 170 | 47 | 6.5 | M10 | 35 – 95 | 15 – 20 |

Tolerances, if not stated, according to ISO 2768-c.



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