

# FLLD4 – TH, 530/305 VAC, 8 – 200 A

## High Performance Chassis Mount

### Three-Phase and Neutral Filters

#### Overview

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

#### Applications

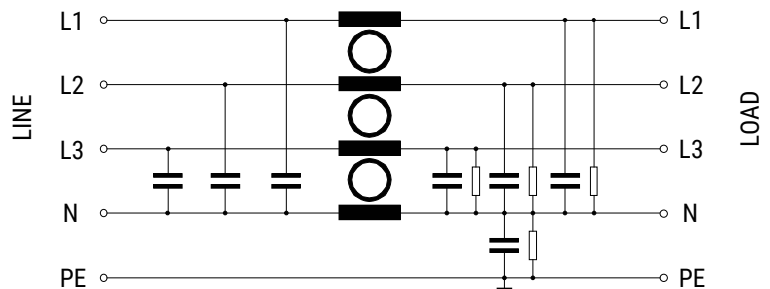
Typical applications include switch-mode power supplies, servo drives, robotics, regenerative drives, battery chargers, inverters, converters, power drives, UPS machines, process automation and other industrial applications.



#### Technical Specifications

| Item              | Parameters/Characteristics         |
|-------------------|------------------------------------|
| Rated Voltage     | 530/305 VAC                        |
| Rated Frequency   | 50 – 60 Hz                         |
| Rated Current     | 8 – 200 A                          |
| Rated Temperature | 50°C                               |
| Temperature Range | -25°C to 100°C                     |
| Climate Category  | 25/100/21                          |
| Voltage Test      | P → P 2,250 VDC<br>P → 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 <sup>1</sup> (mA) | Approximate Weight (kg) |
|--------------|---------------------------|------------------------------|-----------------------------------|-------------------------|
| FLLD4008ATH3 | 8                         | 3                            | 11                                | 0.8                     |
| FLLD4016ATH3 | 16                        | 6                            | 11                                | 0.8                     |
| FLLD4025ATH3 | 25                        | 12                           | 11                                | 1.2                     |
| FLLD4036ATH3 | 36                        | 15                           | 11                                | 1.2                     |
| FLLD4064ATH5 | 64                        | 18                           | 11                                | 2.3                     |
| FLLD4080ATH6 | 80                        | 20                           | 11                                | 4.0                     |
| FLLD4120ATH6 | 120                       | 30                           | 11                                | 5.3                     |
| FLLD4160ATH7 | 160                       | 32                           | 11                                | 6.1                     |
| FLLD4200ATH7 | 200                       | 45                           | 11                                | 6.1                     |

<sup>1</sup> 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           |             |  |
| ANSI/UL 60939-3-2016 | UL                 | E490803     |  |

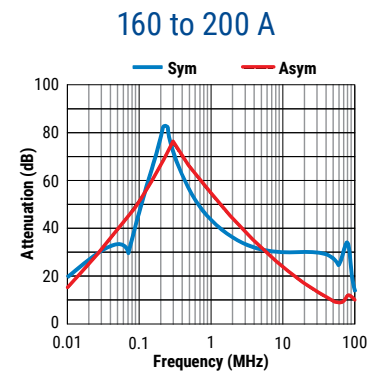
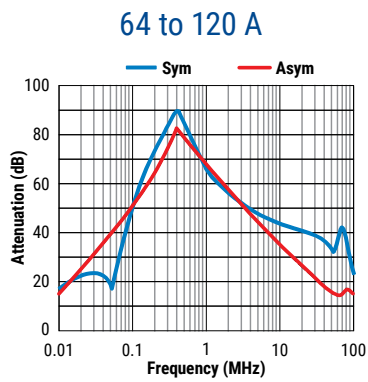
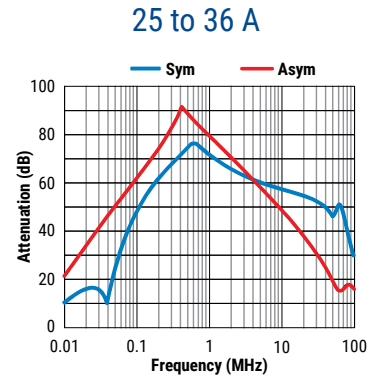
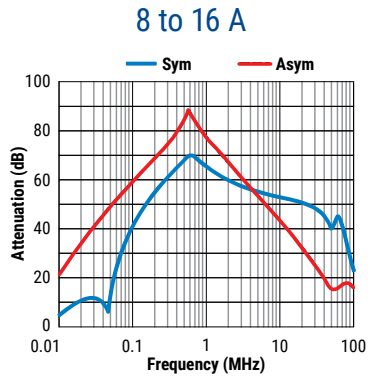
## Environmental Compliance

KEMET EMI filters are RoHS Compliant.

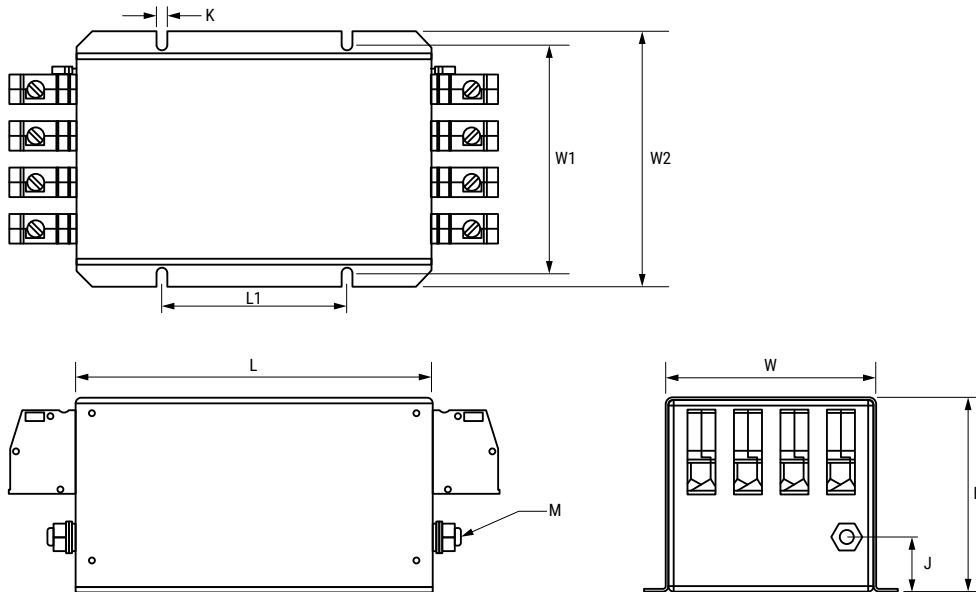


RoHS Compliant

## Typical Insertion Loss



## Mechanical Dimensions – Millimeters



| Part Number    | Dimensions |     |     |       |     |     |    |     |     | Terminal Block     |           |
|----------------|------------|-----|-----|-------|-----|-----|----|-----|-----|--------------------|-----------|
|                | L          | L1  | W   | W1    | W2  | H   | J  | K   | M   | Wire               | Torque    |
|                |            |     |     |       |     |     |    |     |     | (mm <sup>2</sup> ) | (Nm)      |
| FLLD4008ATxT3y | 120        | 80  | 115 | 127.5 | 143 | 80  | 32 | 6.5 | M6  | 1 - 10             | 1.2 - 1.5 |
| FLLD4016ATxT3y | 120        | 80  | 115 | 127.5 | 143 | 80  | 32 | 6.5 | M6  | 1 - 10             | 1.2 - 1.5 |
| FLLD4025ATxT3y | 130        | 90  | 125 | 137.5 | 153 | 115 | 32 | 6.5 | M6  | 1 - 10             | 1.2 - 1.5 |
| FLLD4036ATxT3y | 130        | 90  | 125 | 137.5 | 153 | 115 | 32 | 6.5 | M6  | 1 - 10             | 1.2 - 1.5 |
| FLLD4064ATxT5y | 160        | 100 | 125 | 137.5 | 153 | 125 | 35 | 6.5 | M10 | 10 - 25            | 3 - 4     |
| FLLD4080ATxT6y | 230        | 120 | 135 | 147.5 | 165 | 125 | 35 | 6.5 | M10 | 16 - 50            | 6 - 8     |
| FLLD4120ATxT6y | 250        | 200 | 140 | 153.5 | 170 | 140 | 55 | 6.5 | M10 | 16 - 50            | 6 - 8     |
| FLLD4160ATxT7y | 280        | 230 | 140 | 153.5 | 170 | 170 | 50 | 6.5 | M10 | 35 - 95            | 15 - 20   |
| FLLD4200ATxT7y | 280        | 230 | 140 | 153.5 | 170 | 170 | 50 | 6.5 | M10 | 35 - 95            | 15 - 20   |

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

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