

Overview

The compact, high-powered filter is optimized to address EMC issues across a multitude of industrial applications. The series is designed according to IEC/EN/UL 60939. These filters are optimized for geometry and power loss. Optional, protective covers for the terminals are available. X and Y capacitors are selected from KEMET's wide range of capacitors for highest performance and reliability.

Applications

Typical applications include energy conversion systems for renewable energy (photovoltaic arrays, windmill power), motor and power drives, regenerative drives, inverters and converters, process automation, battery chargers, UPS and welding machines.

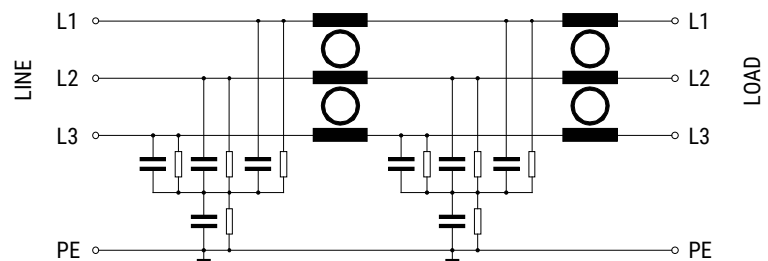


Technical Specifications

Item	Parameters/Characteristics
Rated Voltage	690 VAC
Rated Frequency	50 – 60 Hz
Rated Current	250 – 2,500 A
Leakage Current	< 5 mA*
Rated Temperature	50°C
Temperature Range	-40°C to 100°C
Climate Category	40/100/21
Voltage Test	P → P 3,100 VDC P → E 3,400 VDC

* Maximum leakage current under normal operating conditions. If two phases are interrupted, leakage current can be much higher. Filters without Y-capacitors have no leakage current.

Typical Electrical Schematic



Technical Specifications cont'd

Part Number	Rated Current at 50°C (A)	Power Loss at 25°C/50 Hz (W)	Weight (kg)
FLLD3250AP(*)I1	250	15	7
FLLD3320AP(*)I1	320	15	10
FLLD3400AP(*)I1	400	25	10
FLLD3600AP(*)I1	600	40	11
FLLD3800AP(*)I1	800	50	17
FLLD31K0AP(*)I1	1,000	75	17
FLLD31K6AP(*)I1	1,600	130	26
FLLD32K5AP(*)I1	2,500	230	55

(*) To complete KEMET part number, insert H = Standard, Z = Without Y capacitors

Approvals

The FLLD3 – PH series is designed according to IEC/EN 60939 and UL 1283.

Environmental Compliance

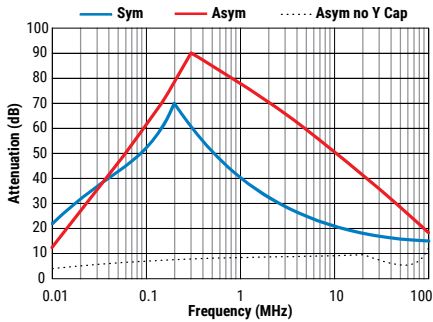
KEMET EMI filters are RoHS Compliant.



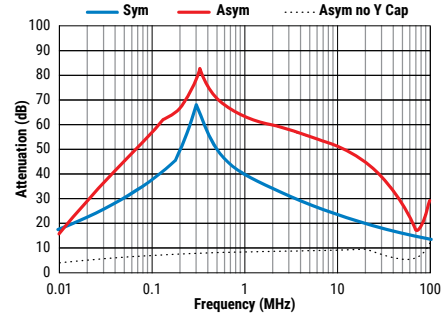
RoHS Compliant

Typical Insertion Loss

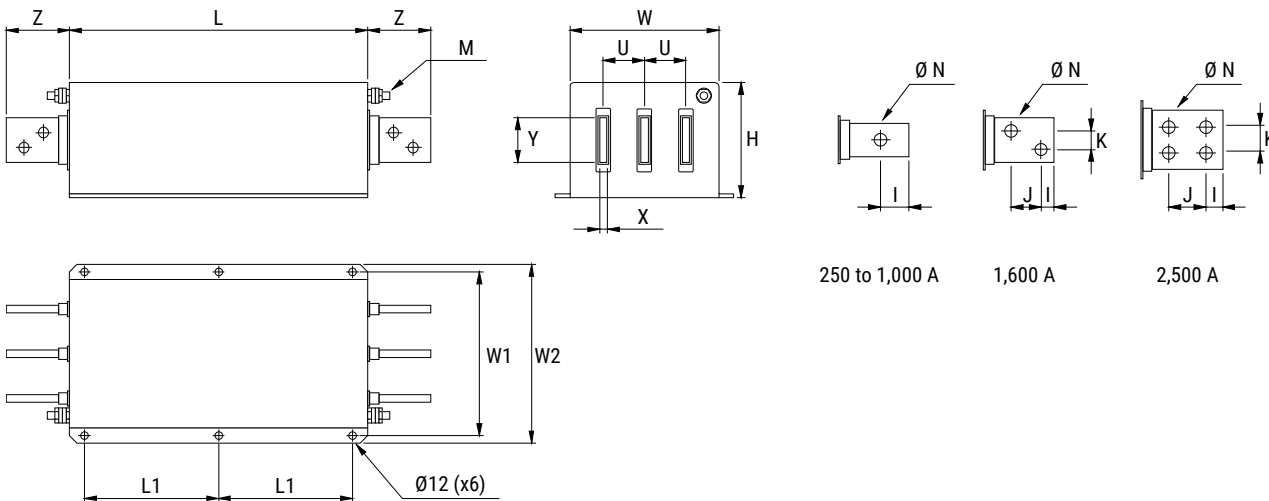
250 to 1,000 A



1,600 and 2,500 A



Mechanical Dimensions – Millimeters



Part Number	Dimensions														
	L	W	H	L1	W1	W2	U	X	Y	Z	I	J	K	N	M
FLLD3250AP(*)I1	300	180	125	120	205	230	55	5	20	45	15			9	M10
FLLD3320AP(*)I1	300	210	115	120	235	260	60	6	25	45	15			10.5	M12
FLLD3400AP(*)I1	300	210	115	120	235	260	60	6	25	45	15			10.5	M12
FLLD3600AP(*)I1	300	210	135	120	235	260	60	8	25	45	15			10.5	M12
FLLD3800AP(*)I1	350	230	170	145	255	280	60	8	40	55	20			14	M12
FLLD31K0AP(*)I1	350	230	170	145	255	280	60	8	40	55	20			14	M12
FLLD31K6AP(*)I1	400	250	160	170	275	300	60	10	60	95	17	26	26	14	M12
FLLD32K5AP(*)I1	450	300	220	200	330	370	100	15	80	110	20	35	35	14	M12

(*) To complete KEMET part number, insert H = Standard, Z = Without Y capacitors
Tolerances, if not stated, according to ISO 2768-c.

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Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

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