# FLLD3 - PH, 690 VAC, 250 - 2,500 A **High Current, High Voltage Chassis Mount Three-Phase Filters**

#### **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**

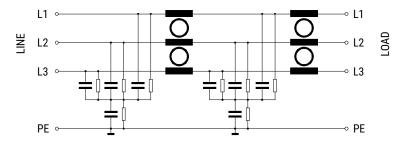
Typical applications include energy conversion systems for renewable energy (photovoltaic arrays, windmill power), motor and power drives, regenerative drives, inverters and converters, process automation, battery chargers, UPS and welding machines.



# **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	$P \rightarrow P 3,100 VDC$ $P \rightarrow E 3,400 VDC$					

#### **Typical Electrical Schematic**



<sup>\*</sup> 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.



### **Technical Specifications cont.**

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

<sup>(\*)</sup> 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.

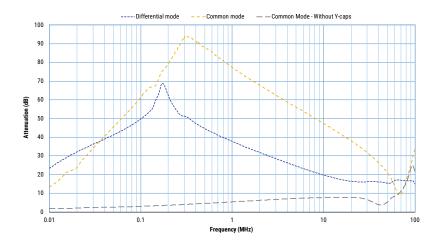
# **Environmental Compliance**

KEMET EMI filters are RoHS Compliant.

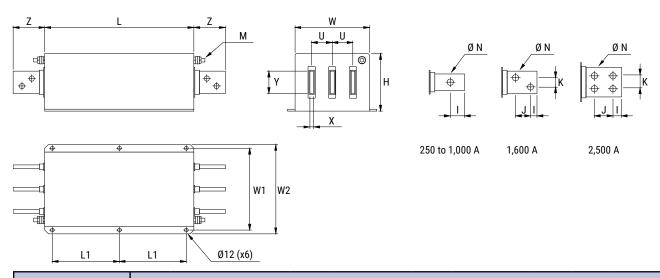




# **Typical Insertion Loss**



# **Mechanical Dimensions - Millimeters**



Part Number	Dimensions														
	L	W	Н	L1	W1	W2	U	Х	Υ	Z	-1	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

<sup>(\*)</sup> 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 all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.