

Overview

AW Three-Phase and Neutral Filters provide a cost-effective level of suppression within compact enclosures. The filter housing's small footprint and low profile ensures ease of installation within manufacturers' original equipment. Benefits include current ratings from 3 A to 20 A, solid high-frequency attenuation, and screw and faston termination styles.

Technical Specifications

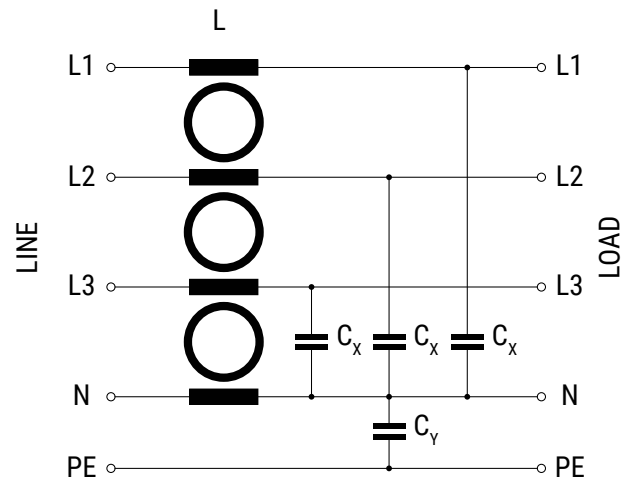
Item	Parameters/Characteristics
Rated Voltage	440 VAC
Rated Frequency	50 – 60 Hz
Rated Current	3 – 10 A
Rated Temperature	-25°C to +85°C
Climate Category	25/085/21
Voltage Test	P → P 1,700 VDC P → E 3,000 VDC

Applications

The AW is designed to suit a wide variety of general purpose power applications, equipment cabinets, and industrial control systems.



Typical Electrical Schematic



Алматы (7273)495-231
 Ангарск (3955)60-70-56
 Архангельск (8182)63-90-72
 Астрахань (8512)99-46-04
 Барнаул (3852)73-04-60
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Technical Specifications cont.

Part Number	I_R (A)	L (mH)	C_x (μ F)	C_y (nF)	I_L (μ A) ¹
FLLD3003AAW03	3	4 x 0.25	0.1	22	83
FLLD3003AAW04	3	4 x 0.45	0.1	4.7	18
FLLD3006AAW04	6	4 x 0.45	0.1	4.7	18
FLLD3006AAW03	6	4 x 0.45	0.1	22	83
FLLD3010AAW01	10	4 x 1.5	0.1	22	83
FLLD3010AAW02	10	4 x 0.2	0.1	4.7	18

¹ The calculation is according to IEC 60939. During fail conditions, the current may be higher.

Approvals

The FLLD3 – AW is designed according to IEC/EN/UL 60939 and UL1283.

Standard	Certification Body	File Number
UL 1283, 5th Edition	UL	E192374

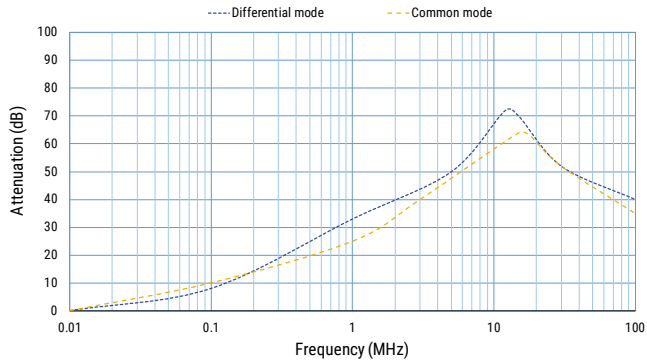
Environmental Compliance

KEMET EMI filters are RoHS Compliant.

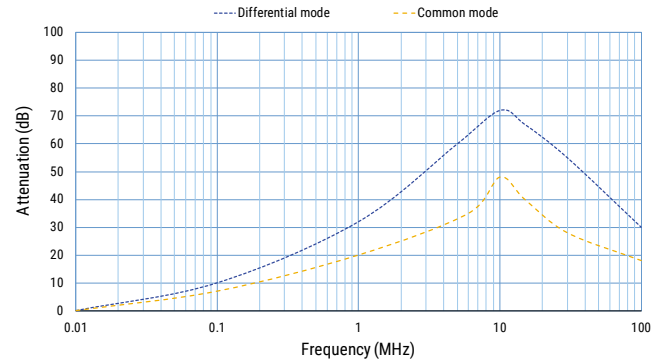


Typical Insertion Loss

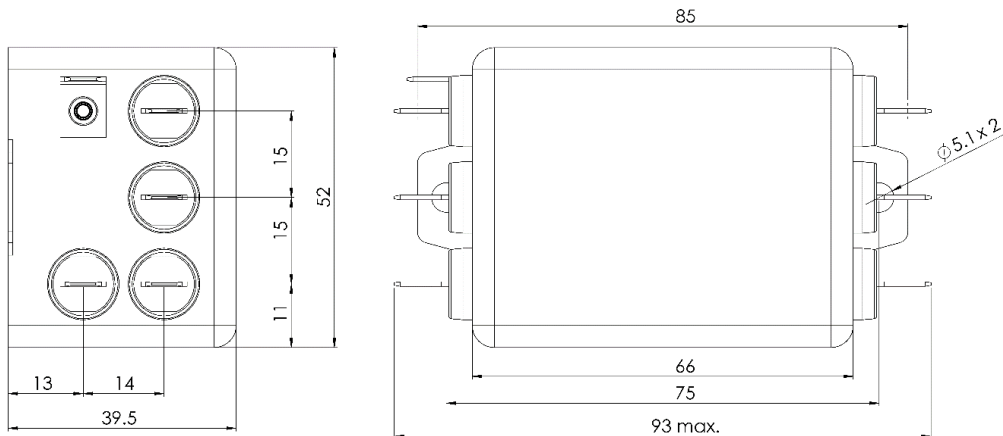
3 and 6 A



10 A



Mechanical Dimensions – Millimeters



- *Metallic case*
- *Sealed with self-extinguishing resin*
- *Fast-on connection 6.3 x 0.8 mm*

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

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

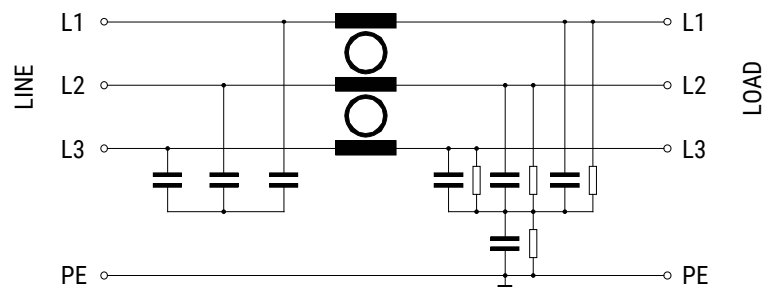
Typical applications include switch-mode power supplies, servo drives, robotics, regenerative drives, battery chargers, inverters, converters, power drives, UPS machines, process automation and other industrial applications.



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 → P 2,250 VDC P → E 3,000 VDC

Typical Electrical Schematic





Technical Specifications cont.

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		
ANSI/UL 60939-3-2016	UL	E490803	

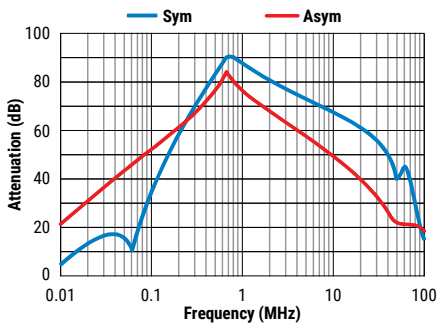
Environmental Compliance

KEMET EMI filters are RoHS Compliant.

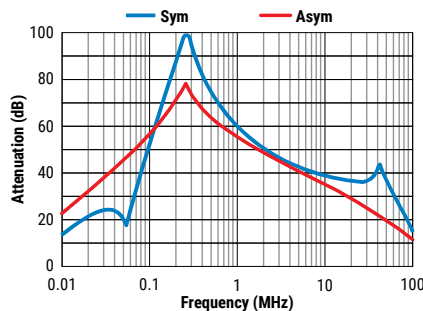


Typical Insertion Loss

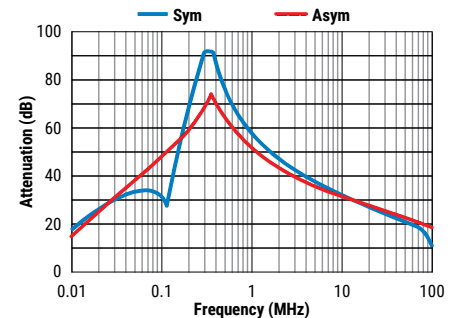
7 to 30 A



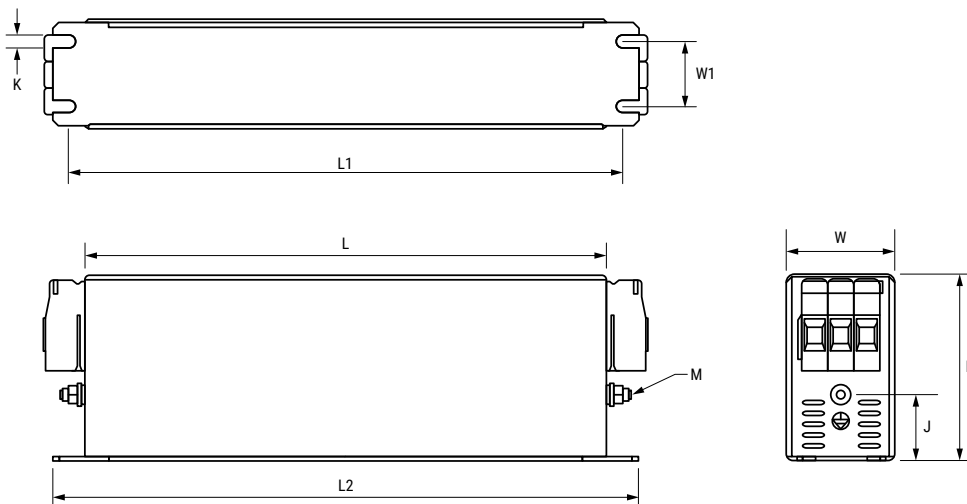
42 and 100 A



130 and 180 A



Mechanical Dimensions – Millimeters



Part Number	Dimensions										Terminal Block	
	L	L1	L2	W	W1	H	J	K	M	Wire	Torque	
											(mm ²)	(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.

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

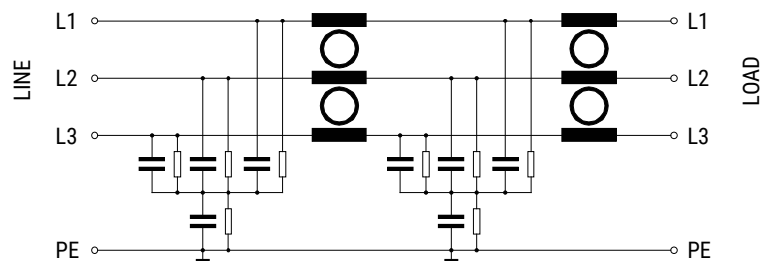
Typical applications include energy conversion systems for renewable energy (photovoltaic arrays, windmill power), motor and power drives, regenerative drives, inverters and converters, process automation, battery chargers, UPS and welding machines.



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 → P 3,100 VDC P → E 3,400 VDC

Typical Electrical Schematic



* 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

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

Approvals

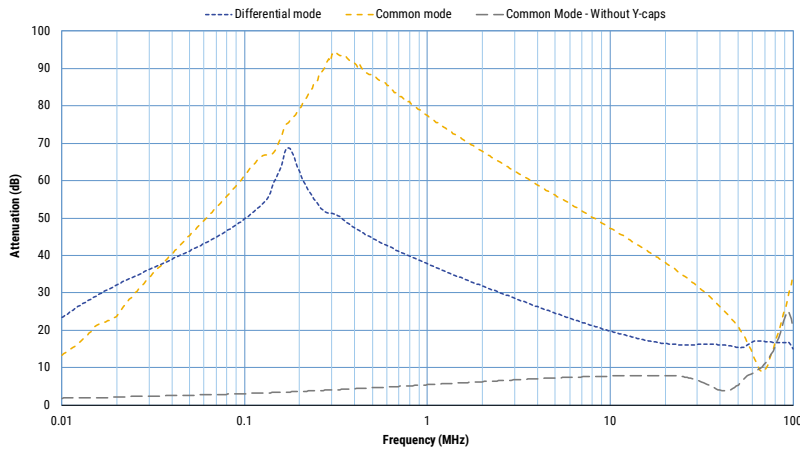
The FLLD3 – PH series is designed according to IEC/EN 60939 and UL 1283.

Environmental Compliance

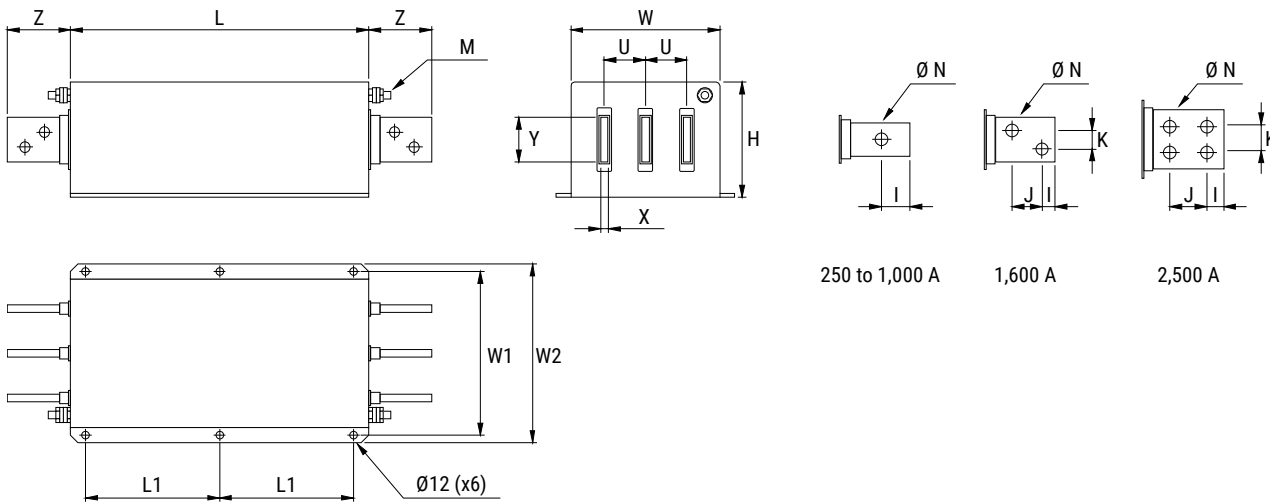
KEMET EMI filters are RoHS Compliant.



Typical Insertion Loss



Mechanical Dimensions – Millimeters



Part Number	Dimensions														
	L	W	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.

FLLD3 – PV, 520 VAC, 250 – 2,500 A High Current Three Phase Filter

Overview

Compact, high-powered filter series optimized to address EMC issues across a multitude of applications. Designed according to IEC/EN/UL 60939 and UL 1283.

Applications

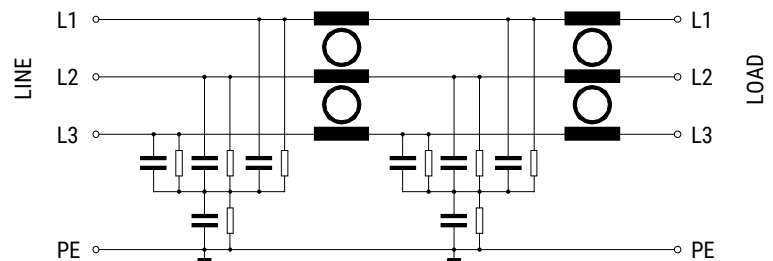
For use in energy conversion systems for renewable energy (photovoltaic arrays, windmill power), motor and power drives, regenerative drives, inverters, converters, process automation, battery chargers, UPS and welding machines.



Technical Specifications

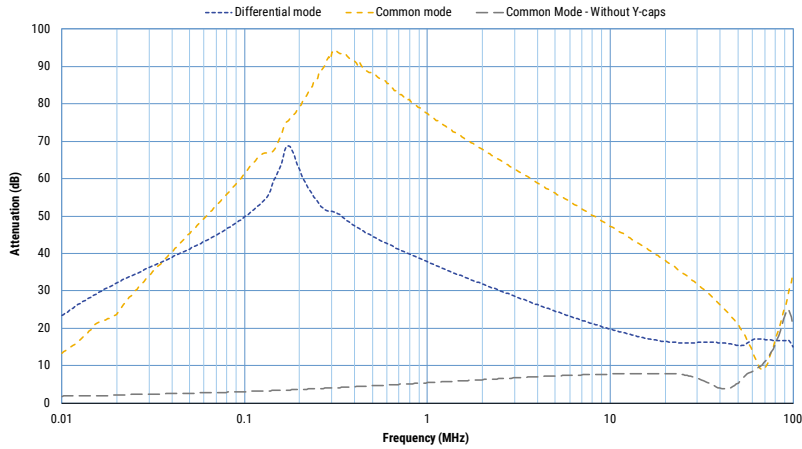
Item	Parameters/Characteristics
Rated Voltage	520 VAC
Rated Frequency	50 – 60 Hz
Rated Current	250 – 2,500 A
Leakage Current	< 5 mA*
Rated Temperature	50°C
Temperature Range	-40°C to 100°C
Climate Category	40/100/21
Voltage Test	P → P 2,250 VDC P → E 3,000 VDC

Typical Electrical Schematic

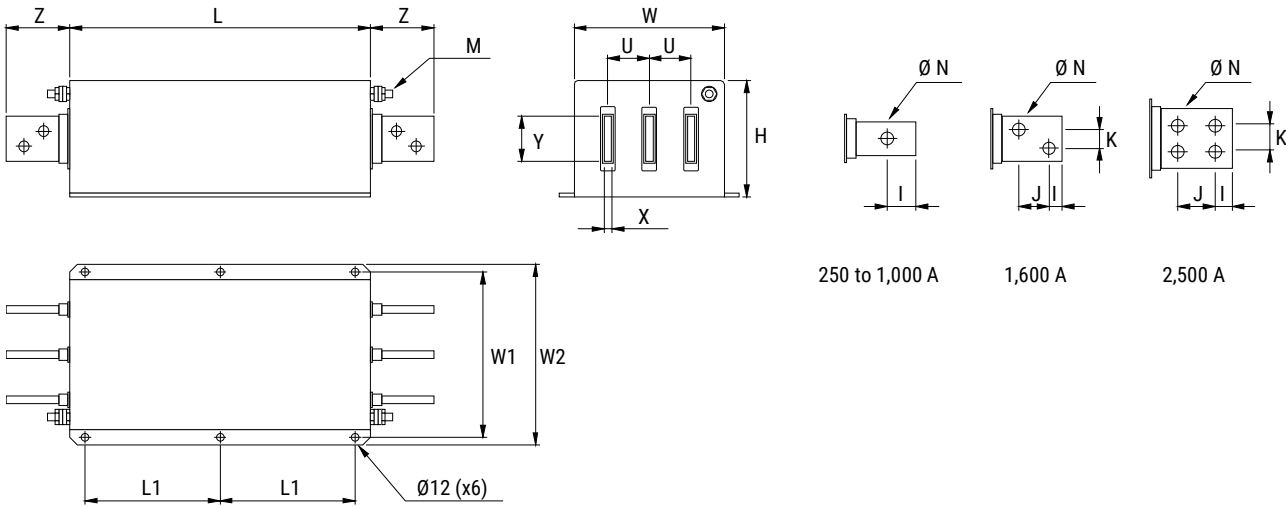


* Maximum leakage current under normal operating conditions. If two phases are interrupted, leakage current can be much higher. Filters without Y capacitors have no leakage current.

Typical Insertion Loss



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

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

(*) To complete KEMET part number, insert V = 520 VAC (Standard), X = 520 VAC (Without Y capacitors)

Approvals

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

Environmental Compliance

KEMET EMI filters are RoHS Compliant.



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