

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

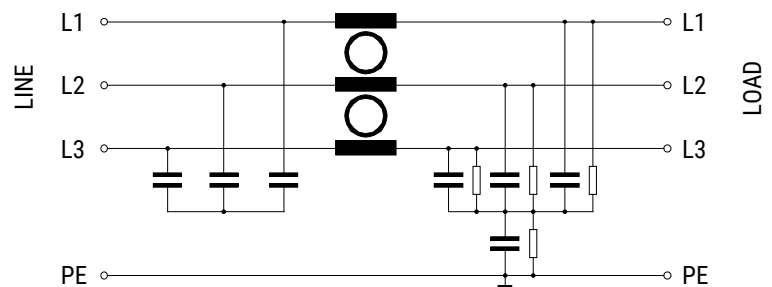
Typical applications include switch-mode power supplies, servo drives, robotics, regenerative drives, battery chargers, inverters, converters, power drives, UPS machines, process automation and other industrial applications.



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 → P 2,250 VDC 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 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

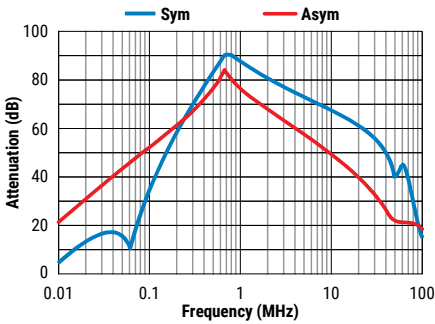
KEMET EMI filters are RoHS Compliant.



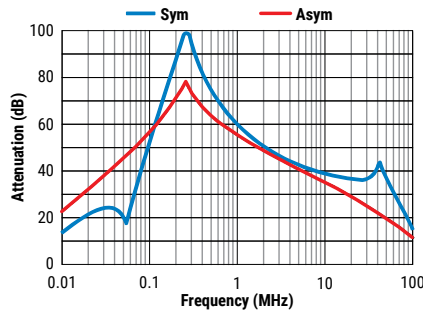
RoHS Compliant

Typical Insertion Loss

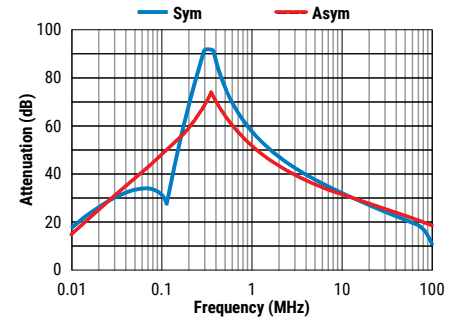
7 to 30 A



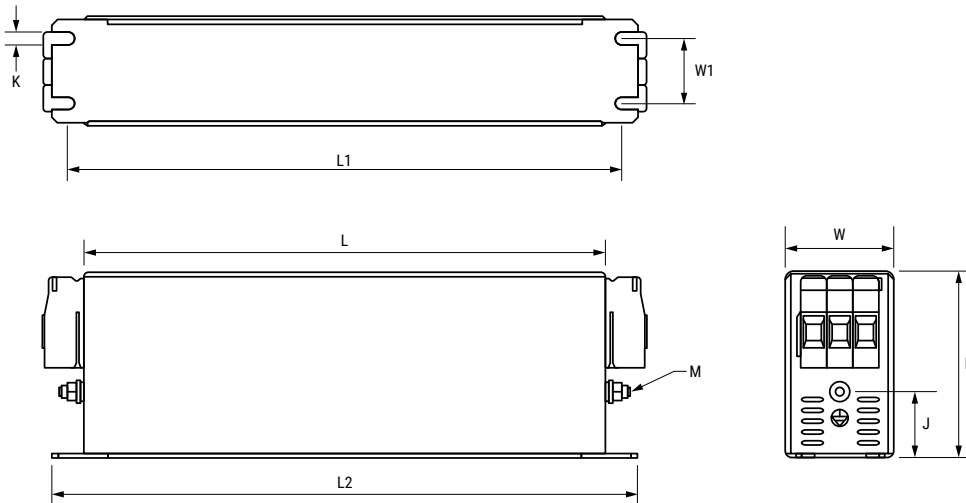
42 and 100 A



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.

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