

Features:

- Space-efficient and light weight filter design
- Touch-safe terminal blocks for all filters from 10 to 100A, offering sufficient contacting cross section according to the EN 60204-1 Standard
- These EMC filters provide the necessary Attenuation performance and conforms to EN 61800-3/A11
- Ensured consistent performance under full load
- Various versions available for standard leakage, low leakage and low leakage with high impedance application

Applications:

- Variable speed electrical power drive systems/ motor drives for mainly industrial purpose
- Various industrial applications comprising frequency inverters, motor drives and servo drives
- Used in MIL-STD-461 Systems

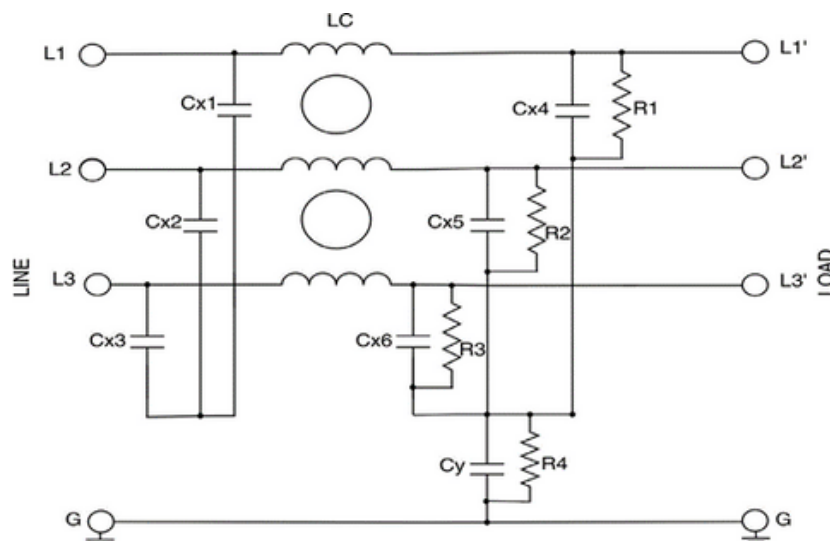
DATASHEET

THREE PHASE EMI FILTER - TMF3132/TMF3332

These Series of filters is designed for Adjustable Speed motor and power drive systems offering Standard attenuation performance while suppressing conducted noise even in the environments with significant interference as per EN 61900-3

Type Circuit Diagram:

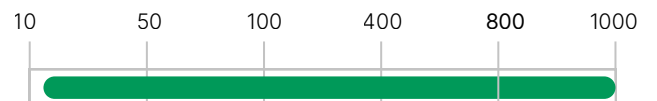
Standard EMI Environments (10A-100A) (TMF3132/TMF3132S)



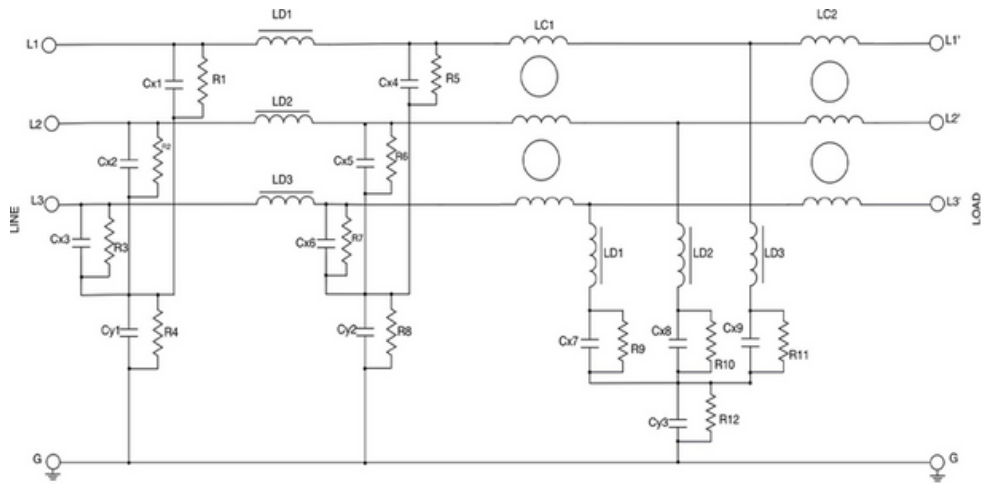
Performance Indicator:

Standard	High	Very High

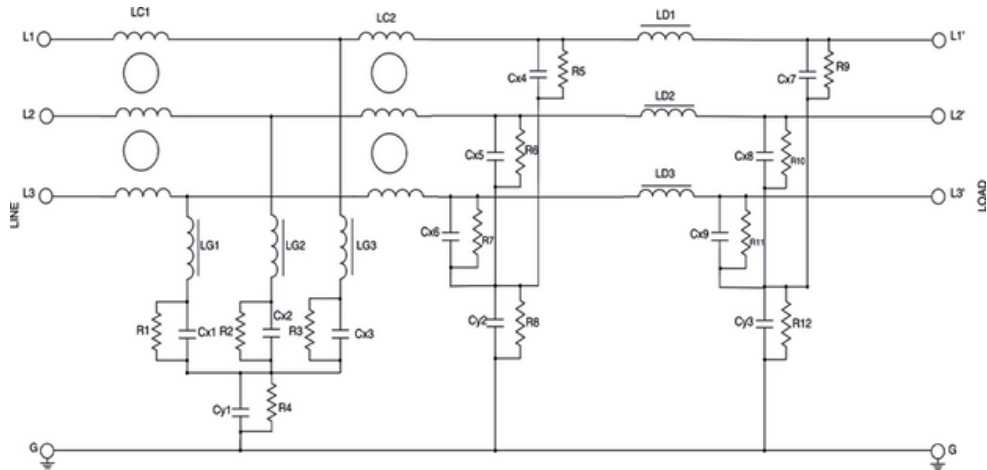
Rated Current (A):



Standard EMI Environments (150A-1000A) (TMF3332 / TMF3332S)



High Impedance Load EMI Environment (> 100 Ohm) (TMF3332Z)



Technical Specifications:

Maximum Continuous Operating Voltage	: 520VAC
Operating Frequency	: 50/60 Hz
Current ratings	: 10A to 1000A @50°C
High Potential test voltage	: L -> G 2856 VDC for 2 sec L -> L 2236 VDC for 2 sec
Overload Capability	: 4x rated current at switch on, 135% of rated current for 15Mins
Flammability according to	: UL 94 V-0
Temperature range	: -25°C to +100°C
Climatic Category	: 25/100/21
Protection category	: IP 20 (10A to 100 A) IP 00 (150A to 1000 A)
Design Corresponding to	: UL 60939-3, IEC 60939-1&2 and CSA 22.2 No.8-13

Ordering Information

Standard EMI Environments / Standard Leakage Currents							
Model Number	Part Number	Current Rating @50°C(A)	Leakage Current @520 VAC/50Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Min. Weight (Kgs)
							
TMF3132-10-2	E108349-1	10	3.5	2.5	-2 (06)	-	0.4
TMF3132-20-2	E108350-1	20	3.5	4.5	-2 (06)	-	0.5
TMF3132-35-2	E108351-1	35	4	7	-2 (06)	-	0.7
TMF3132-50-2	E108352-1	50	4	13	-2 (16)	-	1.2
TMF3132-65-2	E108353-1	65	4	13.5	-2 (16)	-	1.5
TMF3132-80-2	E108354-1	80	4	13.5	-2 (35)	-	2.5
TMF3132-100-2	E108355-1	100	4	17.5	-2 (50)	-	3
TMF3332-150-3	E108356-1	150	7	7.5	-	-3	6.5
TMF3332-200-3	E108357-1	200	7	13.5	-	-3	6.5
TMF3332-250-3	E108358-1	250	7	21	-	-3	6.5
TMF3332-320-3	E108359-1	320	7	12.5	-	-3	7.5
TMF3332-400-3	E108360-1	400	7	20.5	-	-3	7.5
TMF3332-600-3	E108361-1	600	7	36	-	-3	8
TMF3332-800-3	E108362-1	800	7	52	-	-3	16
TMF3332-1000-3	E108363-1	1000	7	81	-	-3	16

Standard EMI Environments / Low Leakage Current							
Model Number	Part Number	Current Rating @50°C(A)	Leakage Current @520 VAC/50Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Min. Weight (Kgs)
							
TMF3132S-10-2	E108349-2	10	0.5	2.5	-2 (06)	-	0.4
TMF3132S-20-2	E108350-2	20	0.5	4.5	-2 (06)	-	0.5
TMF3132S-35-2	E108351-2	35	0.5	7	-2 (06)	-	0.7
TMF3132S-50-2	E108352-2	50	0.5	13	-2 (16)	-	1.2
TMF3132S-65-2	E108353-2	65	0.5	13.5	-2 (16)	-	1.5
TMF3132S-80-2	E108354-2	80	0.5	13.5	-2 (35)	-	2.5
TMF3132S-100-2	E108355-2	100	0.5	17.5	-2 (50)	-	3
TMF3332S-150-3	E108356-2	150	1	7.5	-	-3	6.5
TMF3332S-200-3	E108357-2	200	1	13.5	-	-3	6.5
TMF3332S-250-3	E108358-2	250	1	21	-	-3	6.5
TMF3332S-320-3	E108359-2	320	1	12.5	-	-3	7.5
TMF3332S-400-3	E108360-2	400	1	20.5	-	-3	7.5

High Impedance Load EMI Environment / Standard Leakage Current

Model Number	Part Number	Current Rating @50°C(A)	Leakage Current @520 VAC/50Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Min. Weight (Kgs)
							
TMF3332Z-150-3	E108447-1	150	7	7.5	-	-3	6.5
TMF3332Z-200-3	E108448-1	200	7	13.5	-	-3	6.5
TMF3332Z-250-3	E108449-1	250	7	21	-	-3	6.5
TMF3332Z-320-3	E108450-1	320	7	12.5	-	-3	7.5
TMF3332Z-400-3	E108451-1	400	7	20.5	-	-3	7.5
TMF3332Z-600-3	E108452-1	600	7	36	-	-3	8
TMF3332Z-800-3	E108453-1	800	7	52	-	-3	16
TMF3332Z-1000-3	E108454-1	1000	7	81	-	-3	16

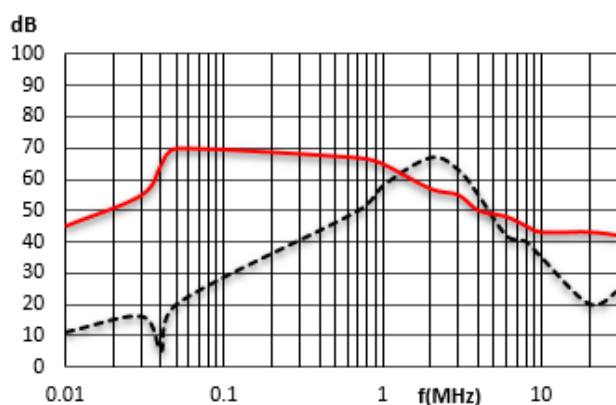
Note: Standardized Leakage Current calculation as per IEC 60939 under normal operating conditions.

Insertion Loss Graph:

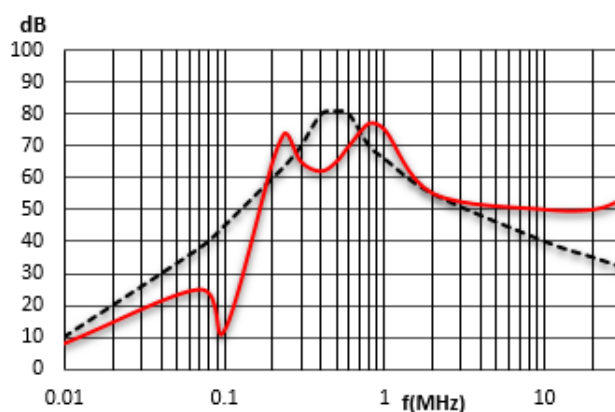
..... Common mode ——— Differential Mode

Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω

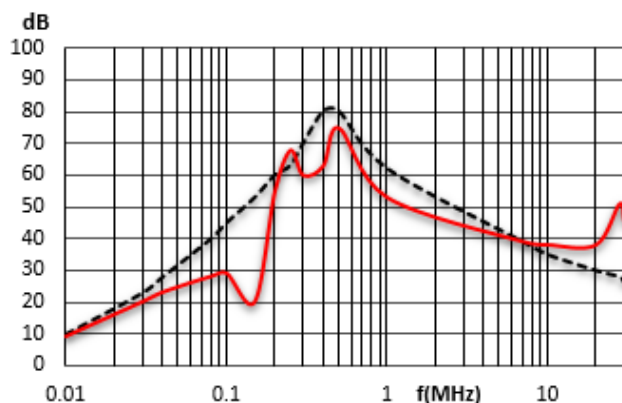
10A to 20A



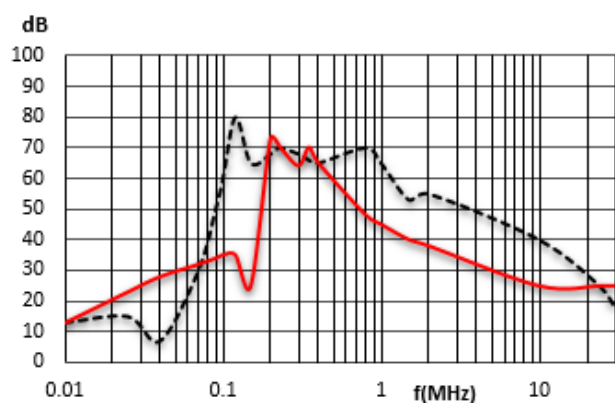
35A to 65A



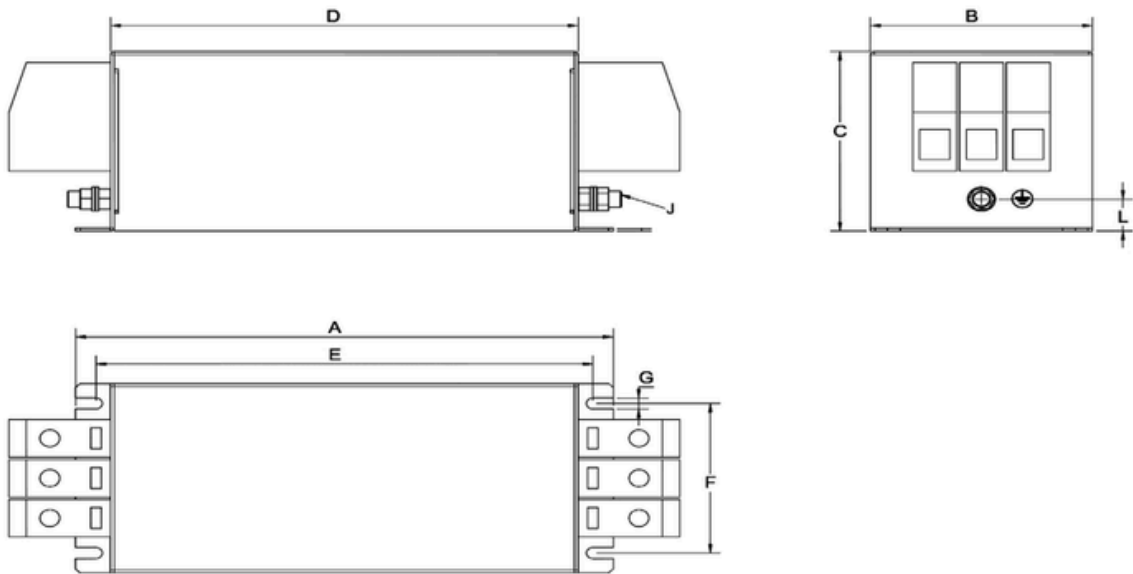
80A to 100A



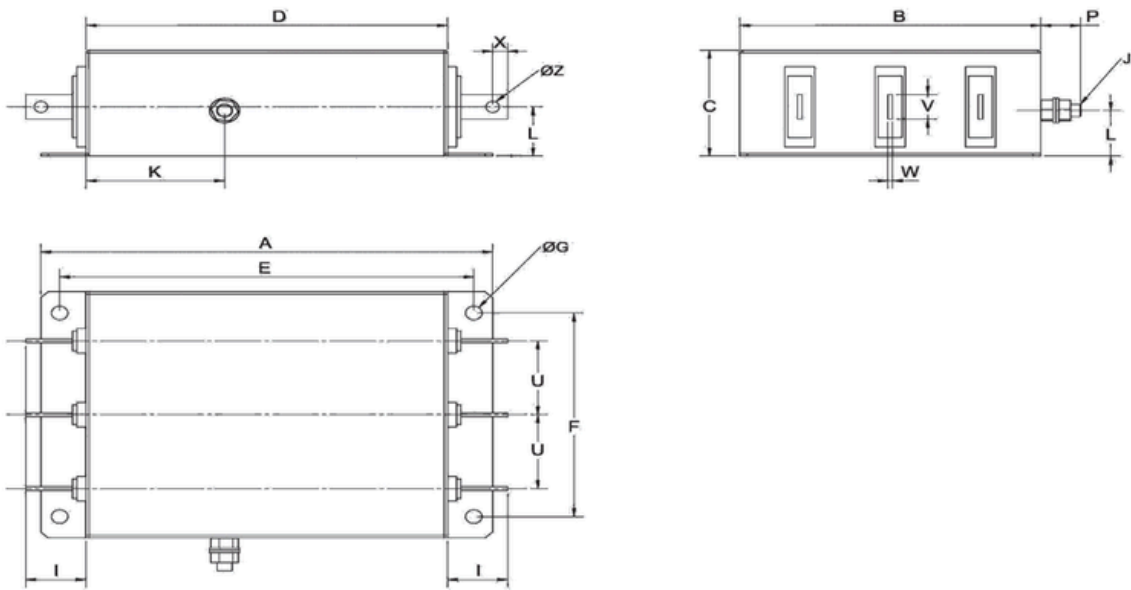
150A to 1000A



10A to 100A



150A to 1000A



Connector Cross Sections

	6	16	35	50
Wire range	8 to 26 AWG	4 to 20 AWG	2 to 8 AWG	6 to 1/0 AWG
Stripping Length	9mm	16mm	19mm	24mm
Recommended torque (Nm)	1.2	2	2	2.5-3

Mechanical Dimensions

	10A	20A	35A	50A	65A	80A	100A	150A	200A	250A	320A	400A	600A	800A	1000A
A	150	150	160	170	170	200	230	300	300	300	300	300	300	370	370
B	58	58	70	85	85	95	95	200	200	200	200	200	200	190	190
C	58	58	68	80	80	90	90	90	90	90	90	90	90	125	125
D	120	120	130	140	140	170	200	240	240	240	240	240	240	310	310
E	132.5	132.5	142.5	152.5	152.5	182.5	212.5	275	275	275	275	275	275	345	345
F	42	42	50	65	65	75	75	165	165	165	165	165	165	155	155
G	4.5	4.5	5.5	5.5	5.5	5.5	5.5	Ø11	Ø11	Ø11	Ø11	Ø11	Ø11	Ø11	Ø11
H	1	1	1	1	1	1.5	1.5	2	2	2	2	2	2	3	3
I	-	-	-	-	-	-	-	40	40	40	40	40	40	50	50
J	M4	M4	M5	M6	M6	M8	M8	M10	M10	M10	M10	M10	M10	M12	M12
K	-	-	-	-	-	-	-	92	92	92	92	92	92	138	138
L	20.5	20.5	20	15	15	16	16	37	37	37	37	37	37	67	67
P	-	-	-	-	-	-	-	26.5	26.5	26.5	26.5	26.5	26.5	29	29
U	-	-	-	-	-	-	-	60	60	60	60	60	60	60	60
V	-	-	-	-	-	-	-	20	20	20	25	25	25	40	40
W	-	-	-	-	-	-	-	3	3	3	6	6	8	8	8
X	-	-	-	-	-	-	-	10	10	10	12.5	12.5	12.5	20	20
Z	-	-	-	-	-	-	-	Ø9	Ø9	Ø9	Ø11	Ø11	Ø11	Ø13.5	Ø13.5

All dimensions in mm; Tolerance according to ISO 2768-C