EMIS

Approvals & Compliances

(Pending)

DATASHEET

THREE PHASE EMI FILTER - TMF3132/TMF3332

These series of filters designed for motor and power drive systems which can provide superior attenuation performance and suppress conducted noise even when high interference level are present

Features:

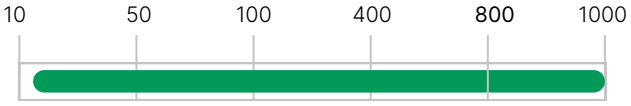
- Space-efficient and light weight filter design
- Touch-safe terminal blocks for all filters from 10 to 100A, offering sufficient contacting cross section according to the EN 60204-1 Standard.
- These EMC filters provide the necessary performance. These EMC filters confirm EN 61800-3/A11.
- ensured consistent performance under full load.
- Various versions, such as 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

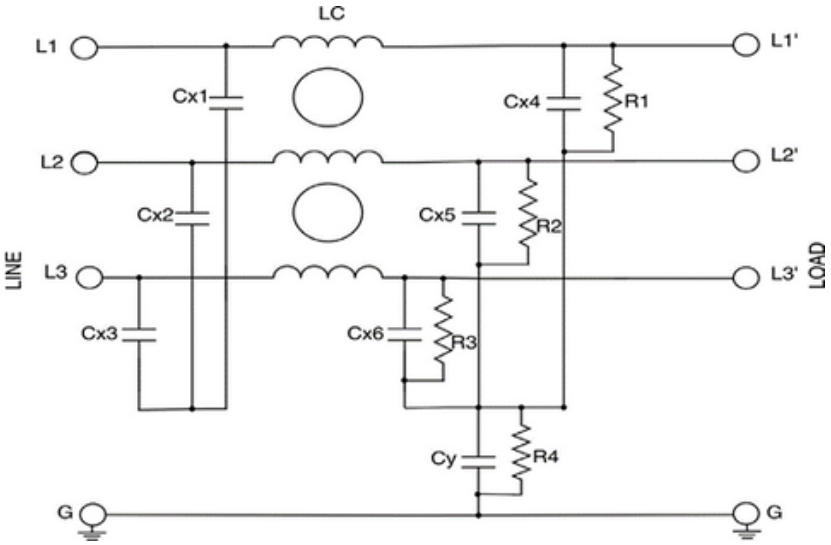
Performance Indicator:

Rated Current (A):

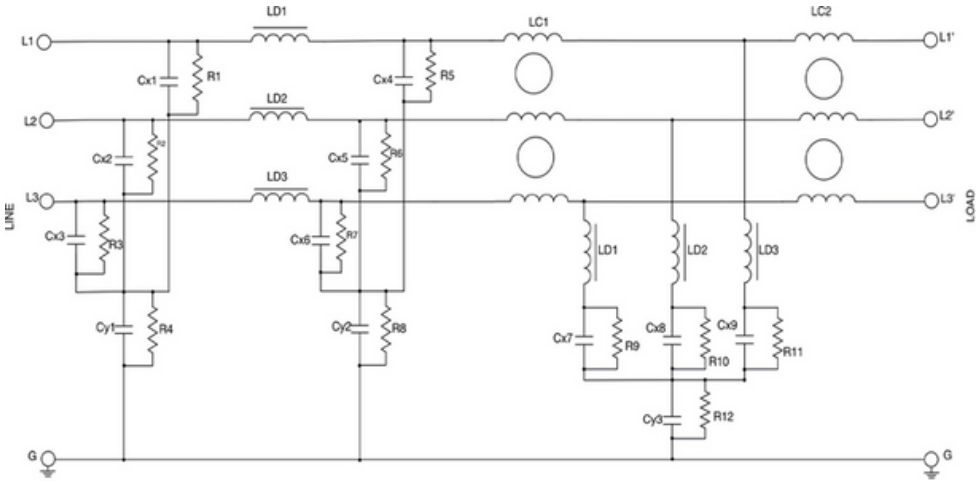


Type Circuit Diagram:

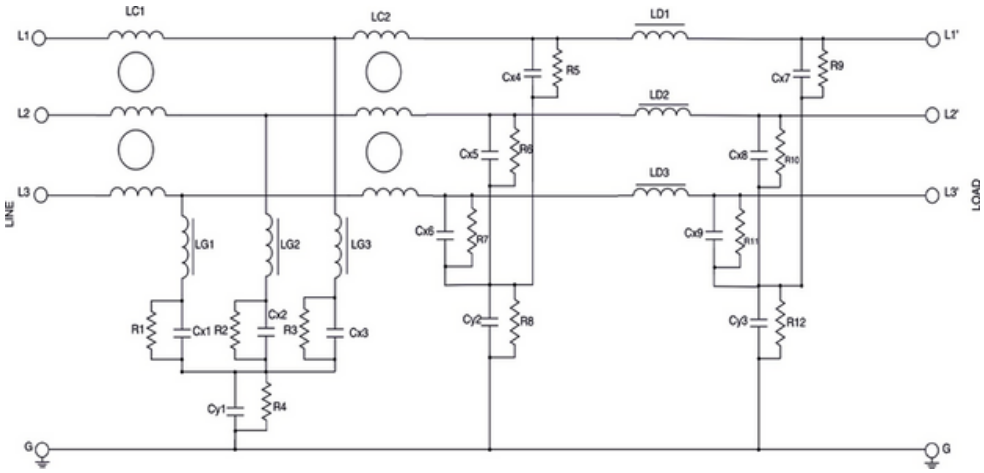
Standard EMI Environments (10A-100A) (TMF3132/TMF3132S)



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

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

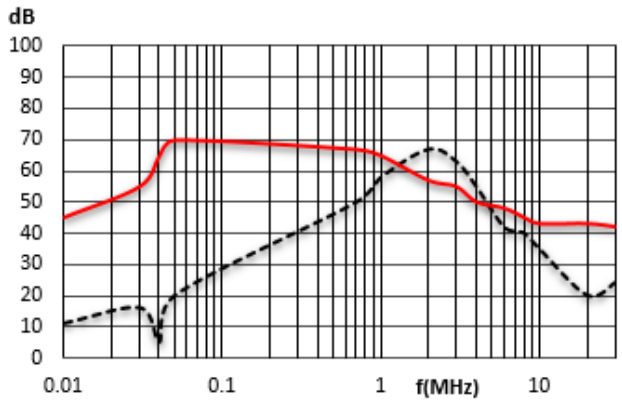
Note : Standardized Leakage Current calculation as per IEC60939 under normal operating conditions.

Insertion Loss Graph:

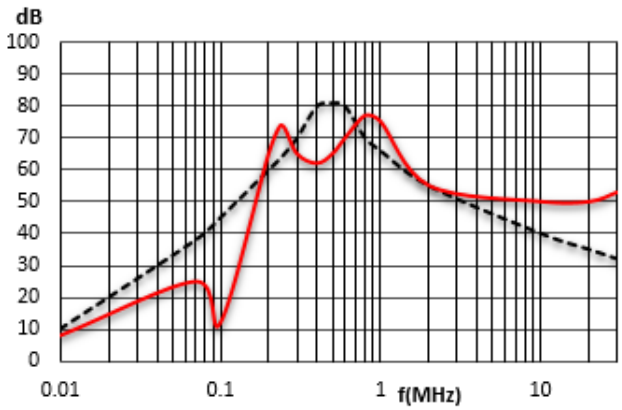
..... Common mode _____ Differential Mode

Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω

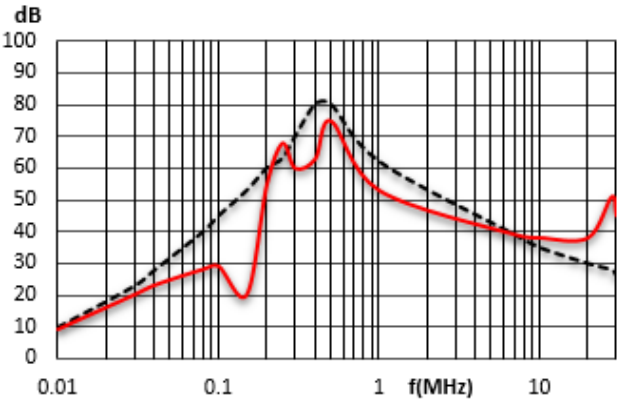
10A to 20A



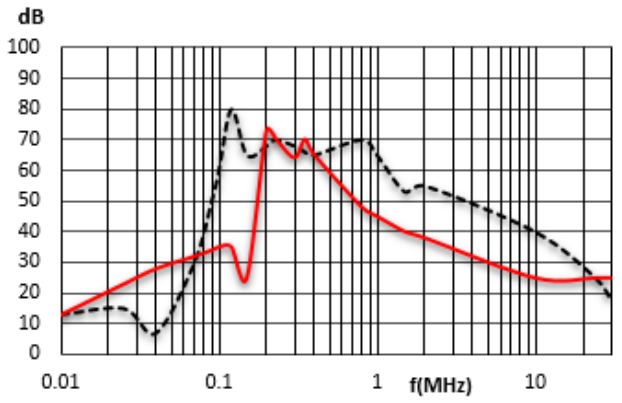
35A to 65A



80A to 100A

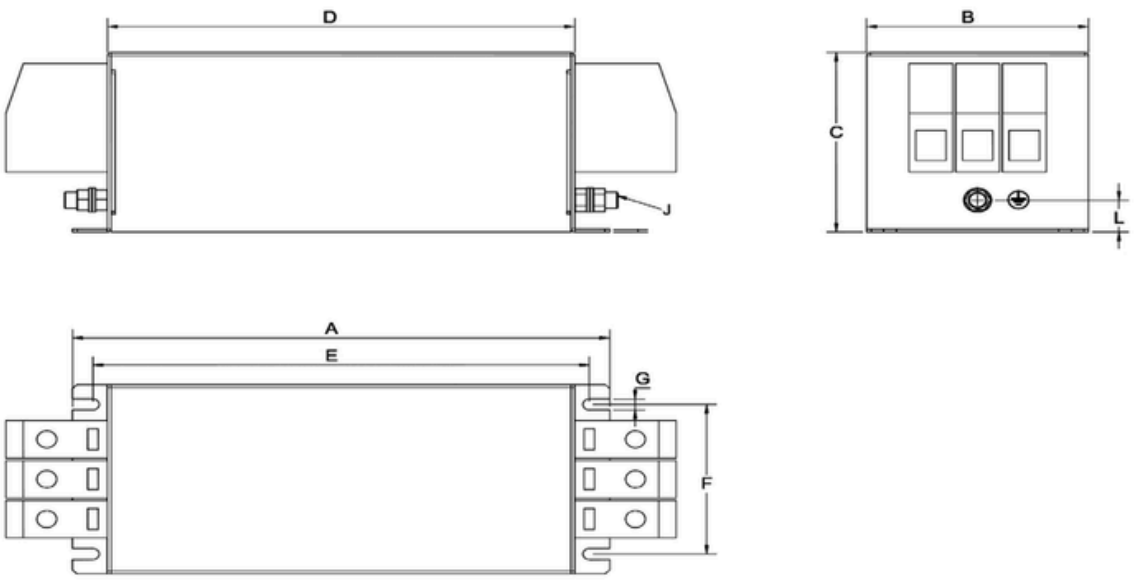


150A to 1000A

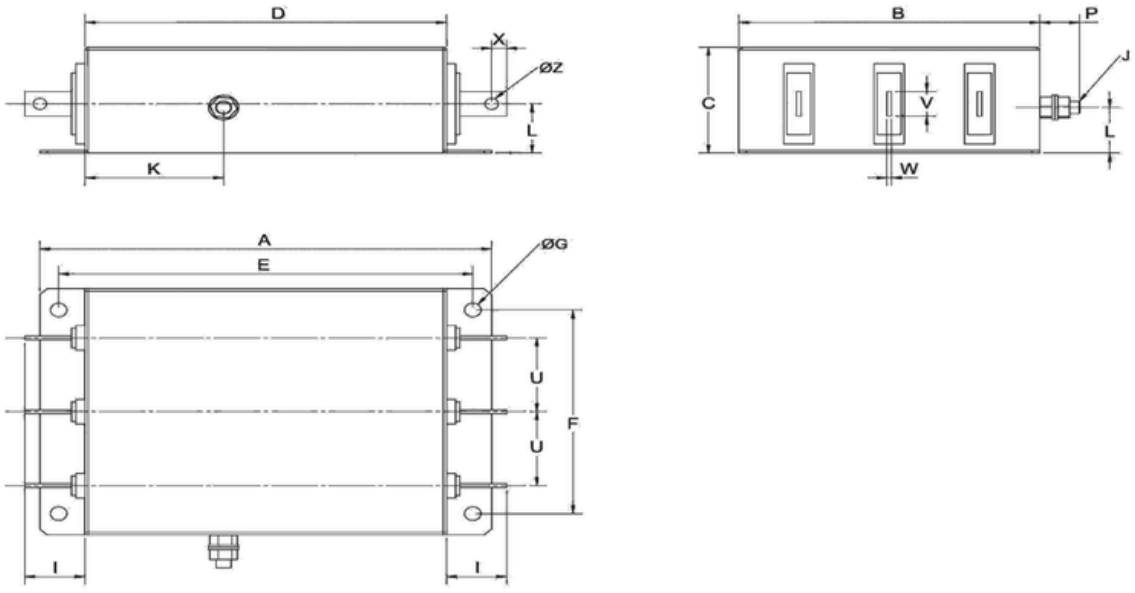


Mechanical Drawing

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: ISO 2768-C