



DATA SHEET

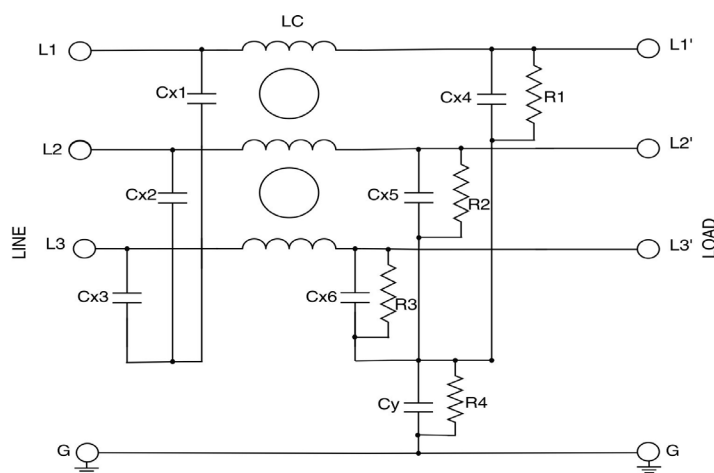
THREE PHASE EMI FILTER- TMF3132/TMF3332

Description

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.

Typical Circuit Diagram:

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



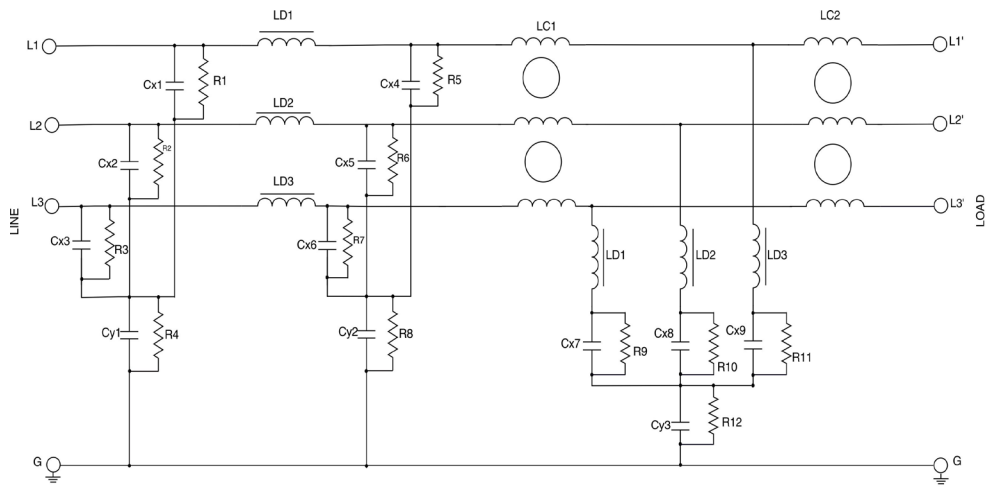
Features:

- Compact and light weight filter design
- Solid, touch-safe terminal blocks, for all filters from 10 to 100A, offering sufficient contacting cross section according to the EN 60204-1 installation standard.
- These EMC filters provide the attenuation performance needed to full fill EN 61800-3/A11.
- Guaranteed filter performance under full load operating conditions.
- 15 different filter models allow the specific choice and deployment for most industrial applications.

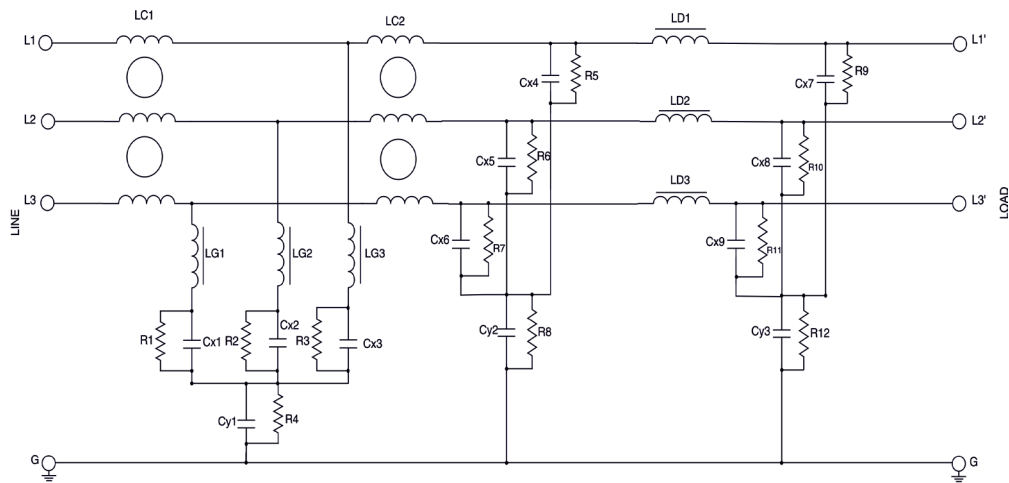
Typical applications:

- Variable speed electrical power drive systems/ motor drives for mainly industrial purpose.
- Various industrial applications comprising frequency inverters, motor drives and servo drives.

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
Rated Currents	: 10A to 1000 A @ 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 15 minute
Flammability corresponding to	: UL 94 V-0 or better
Temperature range	: -25°C to +100°C
Climatic Category	: 25/100/21
Design corresponding to	: UL 60939-3 & IEC 60939-1&2
Protection category	: IP 20 (10A to 100 A) IP 00 (150A to 1000 A)

Filter Selection Table:

Standard EMI Environments / Standard Leakage Currents							
Model Number	Part Number	Current Rating @ 50°C A	Leakage current @ 520 VAC/50 Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Weight Approx. (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/50 Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Weight Approx. (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

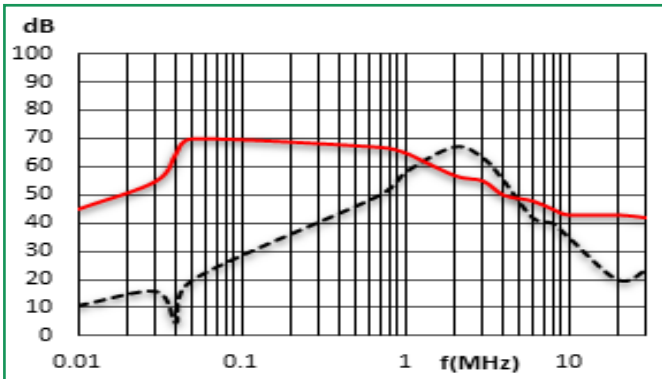
High Impedance Load EMI Environment / Standard Leakage Current							
Model Number	Part Number	Current Rating @ 50°C A	Leakage current @ 520 VAC/50 Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Weight Approx. (kgs)
							
TMF3332Z-150-3	E108447-1	150	7	7.5	-	-3	6.5
TMF3332Z-200-3	E108448-1	200	7	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 calculated leakage current according to the IEC60939 under normal operating conditions.

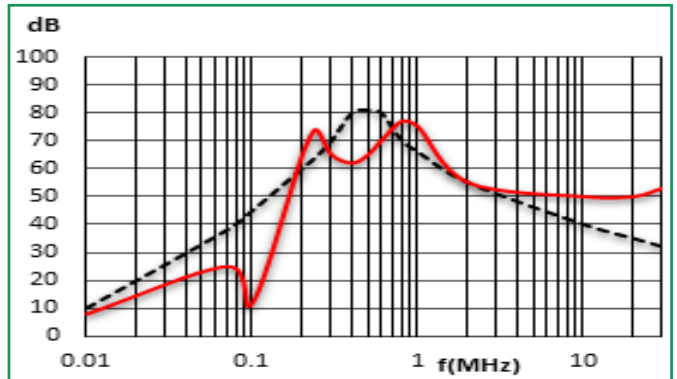
Insertion Loss : Common mode _____ Differential Mode

Per CISPR 17; C=50 Ω/50 Ω D=50 Ω/50 Ω

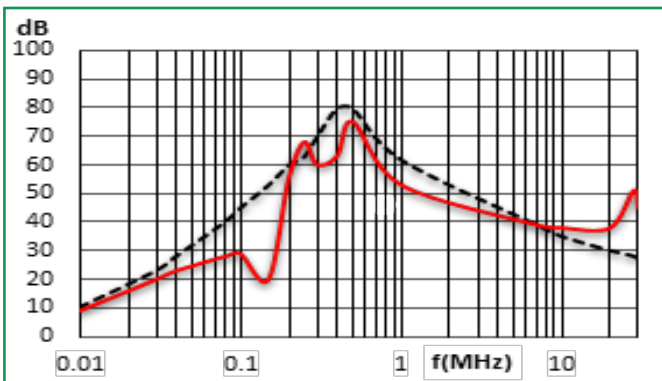
10A to 20A Types



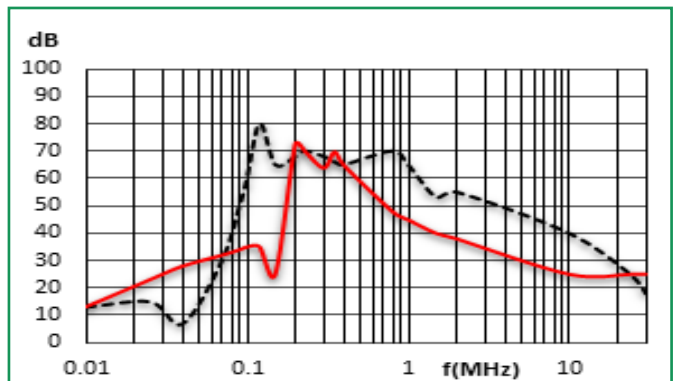
35A to 65A Types



80A to 100A Types

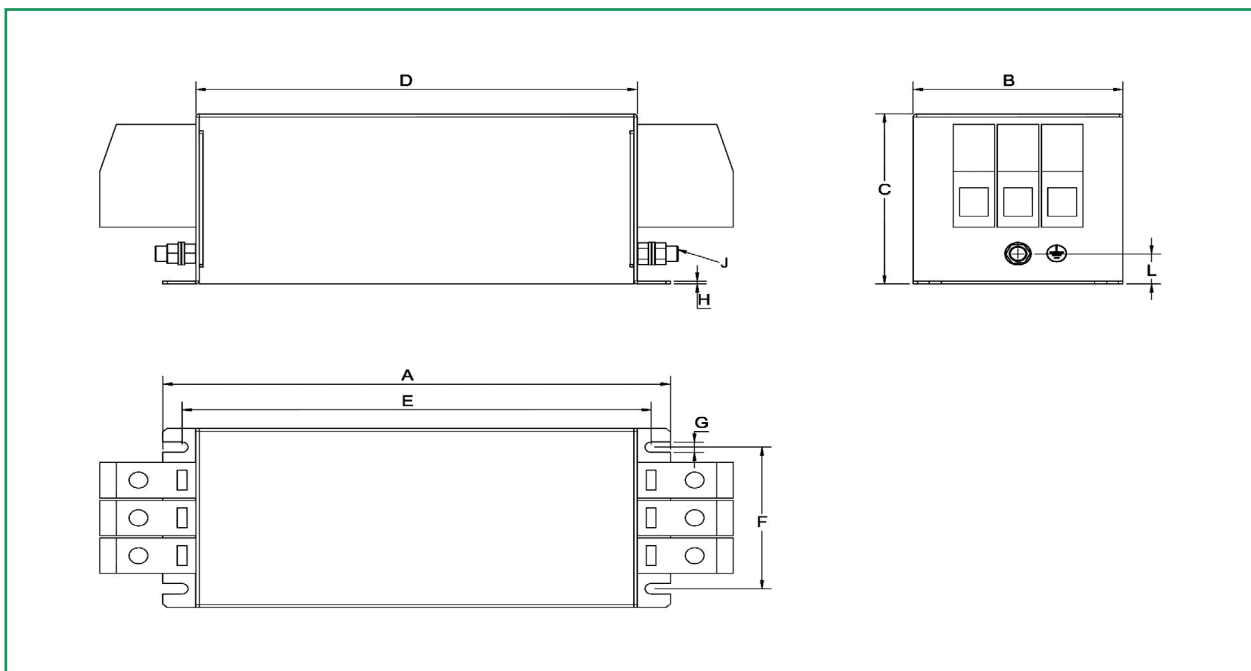


150A to 1000A Types

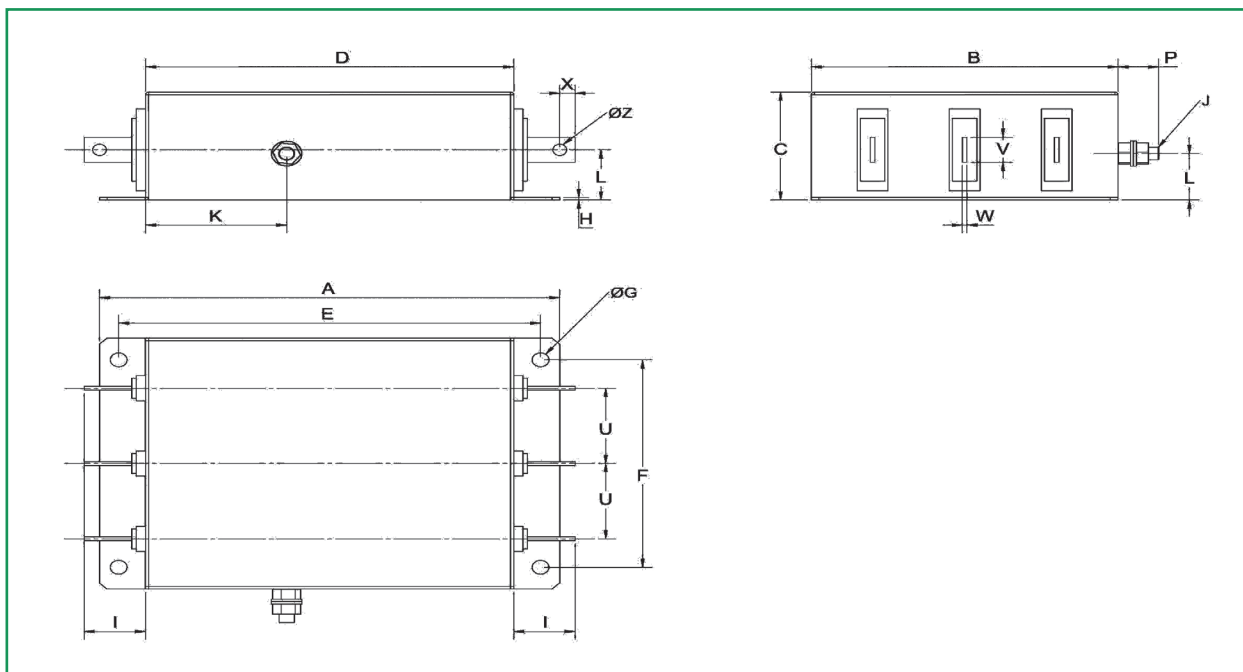


Mechanical Drawing:

10A to 100A Types



150A to 1000A Types




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

Connector Cross Sections

	06	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