


Features:

- A compact and light weight filter design
- Reliable terminal blocks, meeting EN60204-1 standards for industrial use, ensure secure connections with ample cross-section options (8 to 600 types).
- TMF4233 provides the attenuation performance needed to meet the requirements of various machine tools
- For easy selection and application, the filter current ratings are aligned with common fuse values.
- Suitable for complex machines, where the overall insulation resistance needs to be higher than 1MΩ.

DATA SHEET
**THREE PHASE EMI FILTER-
TMF4233**
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.

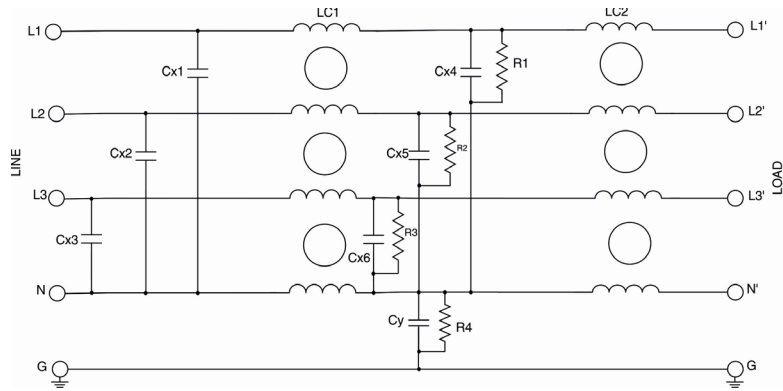
Typical applications:

- High-power motor drives, inverters
- Industrial three-phase systems
- Entire factories, plants and installations
- Machinery
- Large UPS
- Mining equipment
- Photovoltaic systems with galvanic isolation
- Wind turbines

Technical Specifications:

Maximum continuous operating voltage	:	520VAC
Operating Frequency	:	50/60 Hz
Rated Currents	:	8A to 600 A @ 50°C
High Potential test voltage	:	L -> G 2856 VDC for 2 sec L -> L 2236 VDC for 2 sec L-> N 1290 VDC for 2 sec
Overload Capability	:	4x rated current at switch on, 135% of rated current for 15Mins
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 (8A to 200 A types) IP 00 (300A to 600 A types)

Typical Circuit Diagram:



Filter Selection Table:

High Performance							
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(Kg)
TMF4233-8-2	E108317-1	8	11	3	2 (06)	-	0.8
TMF4233-16-2	E108318-1	16	11	6	2 (06)	-	1
TMF4233-25-2	E108319-1	25	11	12	2(06)	-	1.5
TMF4233-36-2	E108320-1	36	11	15	2 (06)	-	1.8
TMF4233-64-2	E108321-1	64	11	19	2 (16)	-	3
TMF4233-80-2	E108322-1	80	11	19	2 (35)	-	4.5
TMF4233-120-2	E108323-1	120	11	29	2(50)	-	6
TMF4233-160-2	E108324-1	160	11	31	2 (95)	-	9
TMF4233-200-2	E108325-1	200	11	47	2 (95)	-	9
TMF4233-300-3	E108326-1	300	42.5	21	-	-3	10
TMF4233-400-3	E108327-1	400	42.5	36	-	-3	10
TMF4233-600-3	E108328-1	600	42.5	65	-	-3	11

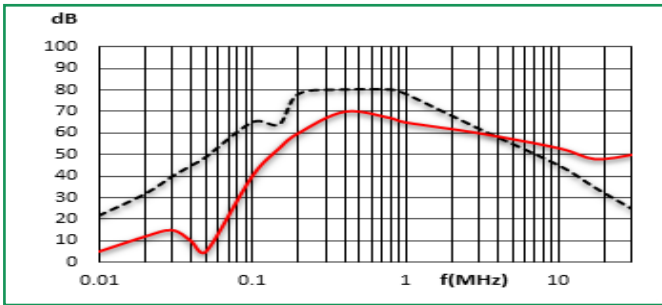
High Performance with Insulation Resistance >1MΩ							
Model Number	Part Number	Current Rating @ 50°C A	Leakage current @ 520 VAC/ 50 Hz (mA)	Power loss @25°C / 50Hz (W)	Termination		Weight Approx(Kg)
TMF4233-8-2-RB2	E108317-2	8	11	3	-2 (06)	-	0.8
TMF4233-16-2-RB2	E108318-2	16	11	6	-2 (06)	-	1
TMF4233-25-2-RB2	E108319-2	25	11	12	-2(06)	-	1.5
TMF4233-36-2-RB2	E108320-2	36	11	15	-2 (06)	-	1.8
TMF4233-64-2-RB2	E108321-2	64	11	19	-2 (16)	-	3
TMF4233-80-2-RB2	E108322-2	80	11	19	-2 (35)	-	4.5
TMF4233-120-2-RB2	E108323-2	120	11	29	-2 (50)	-	6
TMF4233-160-2-RB2	E108324-2	160	11	31	-2 (95)	-	8
TMF4233-200-2-RB2	E108325-2	200	11	47	-2 (95)	-	9
TMF4233-300-3-RB2	E108326-2	300	42.5	21	-	-3	10
TMF4233-400-3-RB2	E108327-2	400	42.5	36	-	-3	10
TMF4233-600-3-RB2	E108328-2	600	42.5	65	-	-3	11

Note : Standardized calculated leakage current according to the IEC60939 under normal operating conditions.

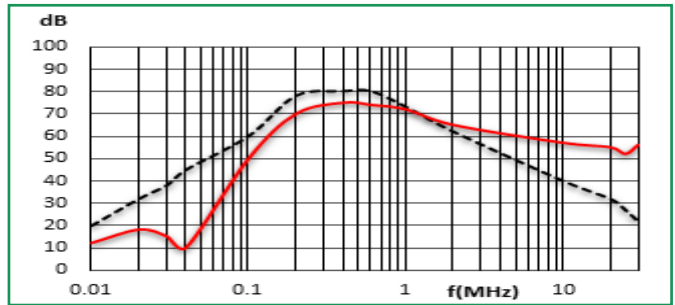
Insertion Loss : Common mode _____ Differential Mode

Per CISPR 17; C=50 Ω/50 Ω D=50 Ω/50 Ω

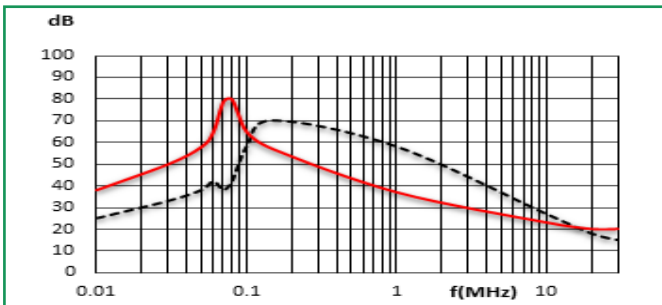
8A to 16A Types



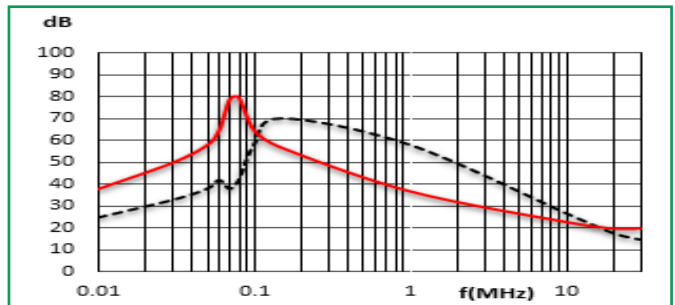
25A to 36A Types



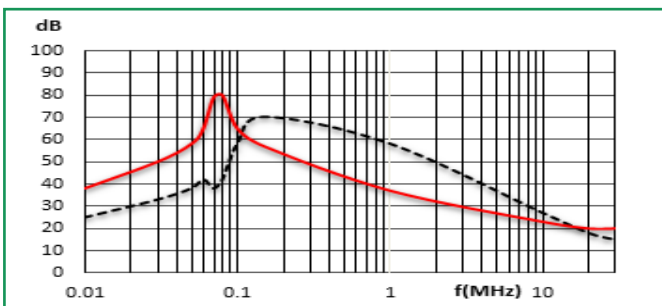
64A to 120A Types



160A to 200A Types

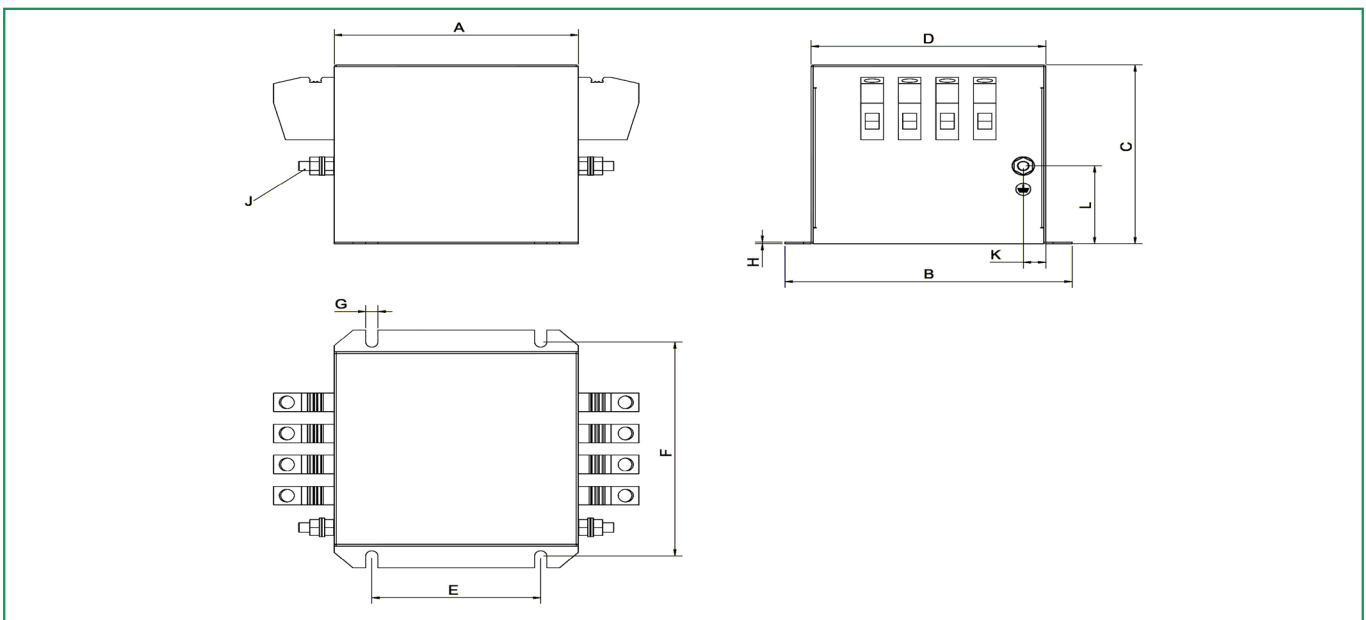


300A to 600A Types

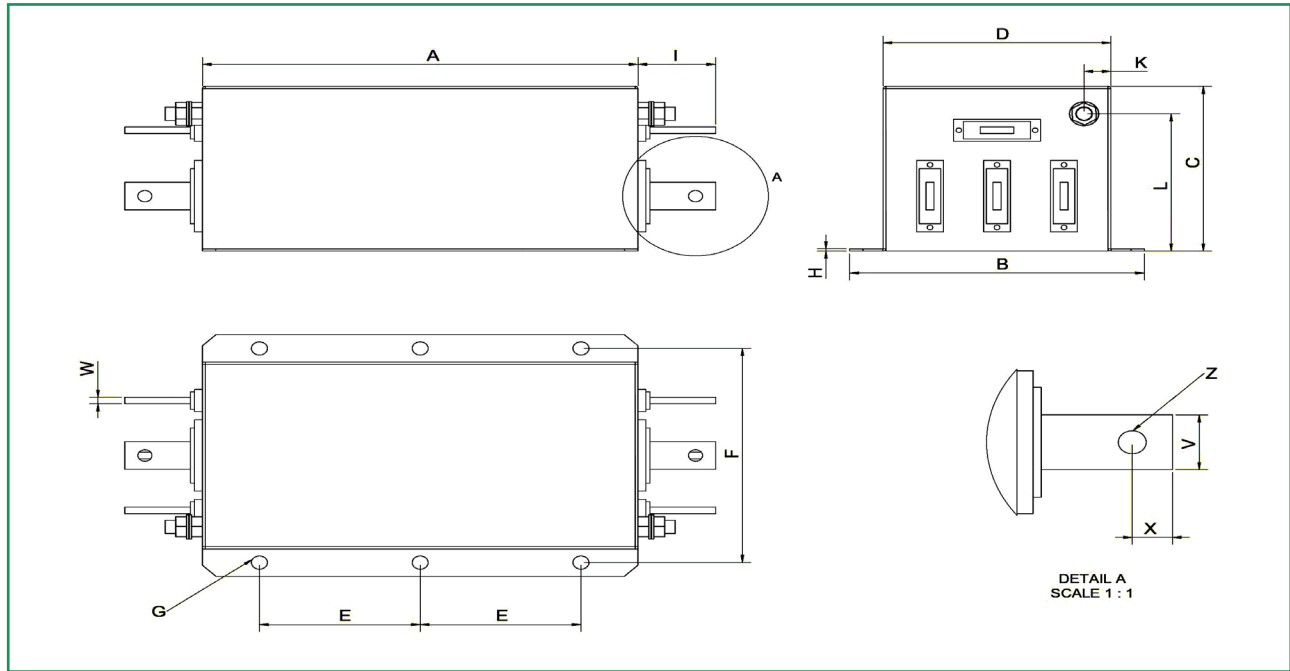


Mechanical Drawing:

8A-200A Types



300A-600A Types



Mechanical dimensions:

	8A	16A	25A	36A	64A	80A	120A	160A	200A	300A	400A	600A
A	120	120	130	130	160	230	250	280	280	325	325	325
B	143	143	153	153	153	163	170	170	170	220	220	220
C	80	80	115	115	125	125	140	170	170	150	150	150
D	115	115	125	125	125	135	140	140	140	170	170	170
E	80	80	90	90	100	120	200	230	230	120	120	120
F	127.5	127.5	137.5	137.5	137.5	147.5	153.5	153.5	153.5	195	195	195
G	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	12	12	12
H	1	1	1	1	1.5	1.5	1.5	1.5	1.5	2	2	2
I	-	-	-	-	-	-	-	-	-	58	58	58
J	M6	M6	M6	M6	M10	M10	M10	M10	M10	M12	M12	M12
K	12	12	12	12	18	18	17.5	17.5	17.5	20	20	20
L	33	33	50	50	55	45	55	55	55	125	125	125
V	-	-	-	-	-	-	-	-	-	25	25	25
W	-	-	-	-	-	-	-	-	-	6	6	8
X	-	-	-	-	-	-	-	-	-	15	15	15
Z	-	-	-	-	-	-	-	-	-	Ø10.5	Ø10.5	Ø10.5

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

Connector Cross Sections

	06	16	35	50	95
Wire range	8 to 26 AWG	4 to 20 AWG	2 to 8 AWG	6 to 1/0 AWG	AWG 4/0
Stripping Length	9mm	16mm	19mm	24mm	27mm
Recommended torque (Nm)	1.2	2	2	2.5-3	3.5-6