

Features:

- Filter designs are available up to 600 amps
- compact and lightweight design for easy integration
- Reliable terminal blocks comply with EN60204-1 standards for industrial use and ensure secure connections
- The TMF4233 delivers the attenuation performance required to meet the requirements of various machine tools
- It is suitable for complex machines where the overall insulation resistance must exceed 1MΩ

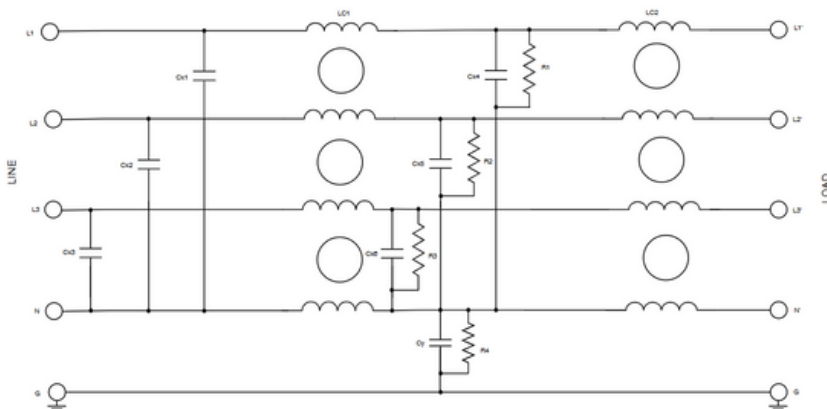
Applications:

- High-power motor drives, inverters
- Industrial three-phase systems
- Entire factories, plants and installations
- Machinery
- Large UPS
- Mining equipment

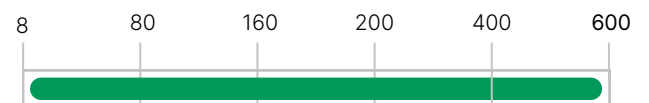
DATASHEET

Three Phase EMI Filter with Neutral - TMF4233

This series is primarily used in industrial equipment, machinery, machine tools and various process automation systems with three-phase and neutral configuration. Due to its exceptional attenuation performance, TMF4233 is also the preferred choice for noisy power supplies, renewable energy applications, and high-power office equipment.

Type Circuit Diagram:

Performance Indicator:

Standard	High	Very High

Rated Current (A):


Technical Specifications:

Maximum Continuous Operating Voltage	:520VAC
Operating Frequency	:50/60 Hz
Current ratings	: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	:4 x rated current at switch on, 135% of rated current for 15 Mins
Flammability according to	:UL 94 V-0
Protection category	:IP 20 (8A to 200A types) IP 00 (300A to 600A types)
Design Corresponding to	:UL 60939-3, IEC 60939-1&2 and CSA 22.2 No.8-13
Temperature range	:-25°C to +100°C
Climatic Category	:25/100/21

Ordering Information

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  		Min.Weight (kg)
TMF4233-8-2	E108317-1	8	11	3	-2 (10)	-	0.8
TMF4233-16-2	E108318-1	16	11	6	-2 (10)	-	1
TMF4233-25-2	E108319-1	25	11	12	-2 (10)	-	1.5
TMF4233-36-2	E108320-1	36	11	15	-2 (10)	-	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  		Min.Weight (kg)
TMF4233-8-2-RB2	E108317-2	8	11	3	-2 (10)	-	0.8
TMF4233-16-2-RB2	E108318-2	16	11	6	-2 (10)	-	1
TMF4233-25-2-RB2	E108319-2	25	11	12	-2 (10)	-	1.5
TMF4233-36-2-RB2	E108320-2	36	11	15	-2 (10)	-	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

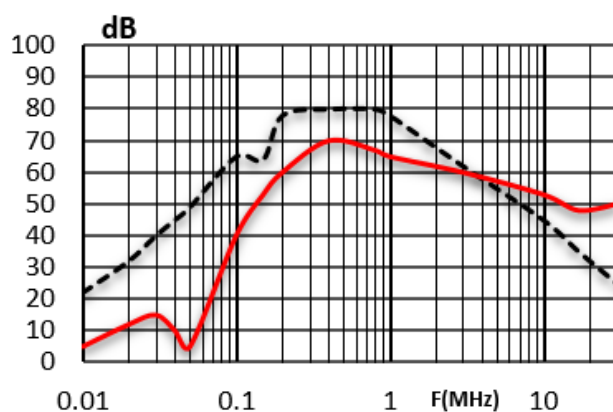
Note: Standardized leakage current calculation as per IEC 60939 under normal operating conditions

Insertion Loss

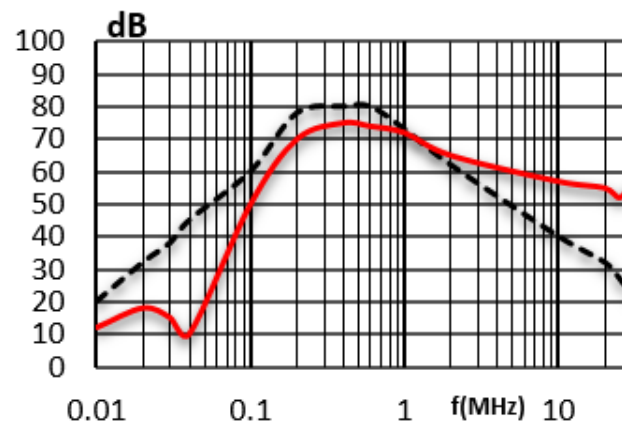
..... Common mode ——— Differential Mode

Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω

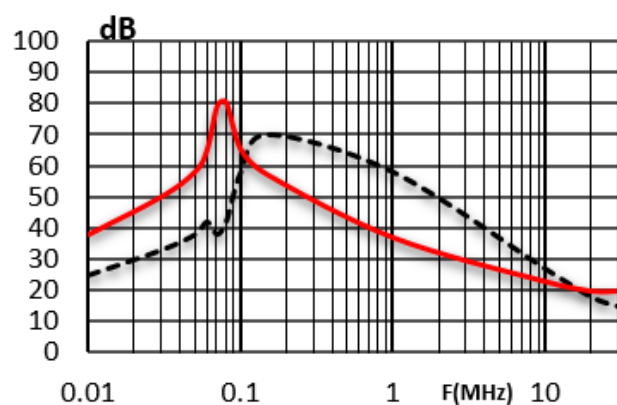
8A to 16A



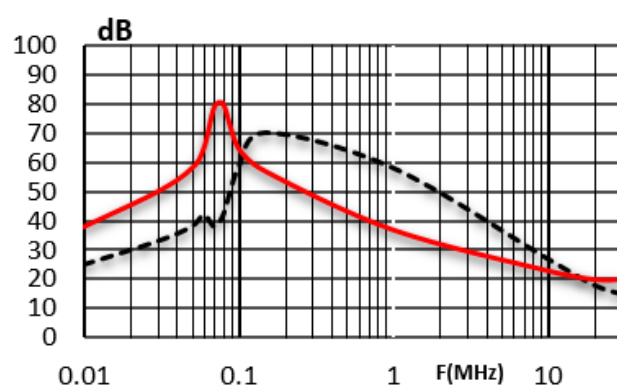
25A to 36A



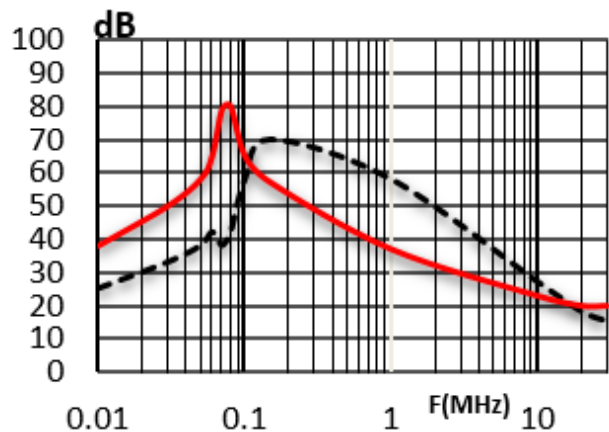
64A to 120A



160A to 200A

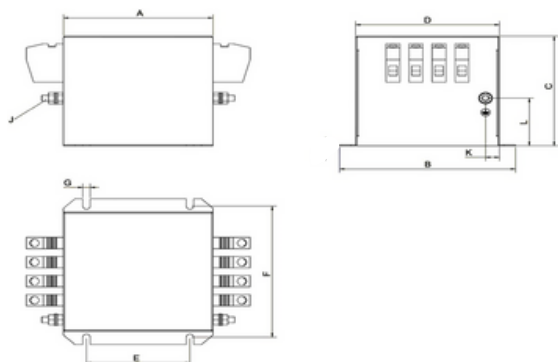


300A to 600A

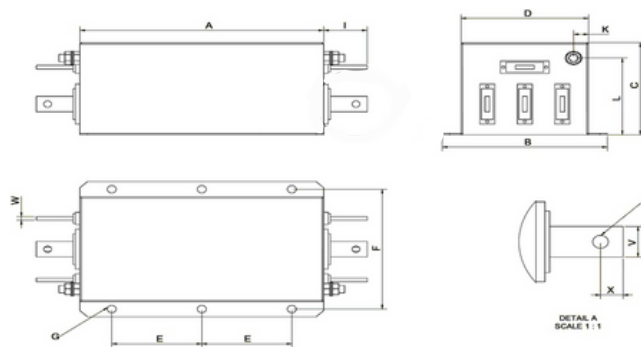


Mechanical Drawing

8A-200A



300A-600A



Connector Cross Sections

	10	16	35	50	95
Wire range	6 to 24 AWG	4 to 20 AWG	2 to 8 AWG	6 to 1/0 AWG	AWG 4/0
Stripping Length	11mm	16mm	19mm	24mm	27mm
Recommended torque((Nm)	1.5-1.8	2	2	2.5-3	3.5-6

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
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 to ISO 2768-C