



DATASHEET

Three Phase EMI Filter with Neutral - TMF4222

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, TMF4222 is also the preferred choice for noisy power supplies, renewable energy applications and high-power office equipment.

Features:

- Filter designs are available up to 250A
- Compact and light weight Design
- Reliable terminal blocks, meeting EN60204-1 standards for industrial use, ensure secure connections
- The TMF4222 provides the attenuation performance needed to meet the requirements of various machine tools

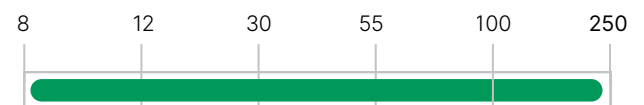
Applications:

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

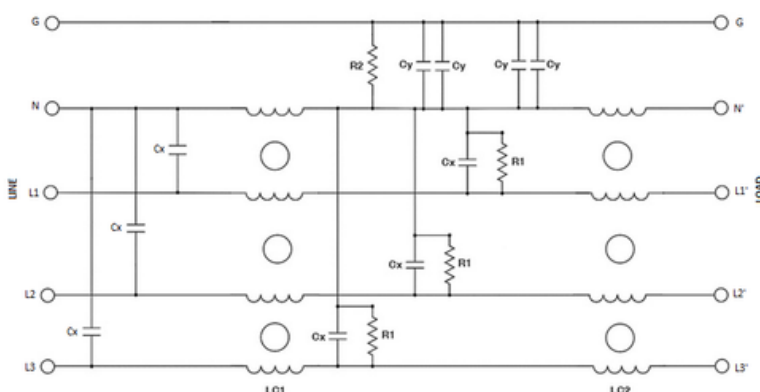
Performance Indicator:

Standard	High	Very High

Rated Current (A):



Type Circuit Diagram:



Technical Specifications:

Maximum Continuous Operating Voltage	: 520VAC
Operating Frequency	: 50/60 Hz
Current ratings	: 8A to 250 A @ 50°C
High Potential test voltage	: L to N 1290 VDC for 2 Sec L to L 2236 VDC for 2 Sec L to G 2884 VDC for 2 Sec
Overload Capability	: 135% of rated current for 15 Mins
Flammability according to	: UL 94 V-0
Protection category	: IP 20
Design Corresponding to	: UL60939-3, IEC60939-1&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)
TMF4222-8-2	E111532-1	8	19	4.4	-2(4)	1
TMF4222-12-2	E111533-1	12	19	4.8	-2(4)	1.25
TMF4222-16-2	E111534-1	16	21	8.7	-2(6)	1.5
TMF4222-30-2	E106502-1	30*	21	10.7	-2(16)	2
TMF4222-42-2	E111535-1	42	21	15.7	-2(16)	2.5
TMF4222-55-2	E111536-1	55	21	24.6	-2(16)	3.25
TMF4222-75-2	E111537-1	75	21	38	-2(35)	5
TMF4222-100-2	E111538-1	100	21	53.3	-2(50)	6.5
TMF4222-130-2	E111539-1	130	21	71.6	-2(50)	7
TMF4222-180-2	E111540-1	180	31	90.3	-2(150)	13
TMF4222-250-2	E111541-1	250	31	128	-2(150)	15

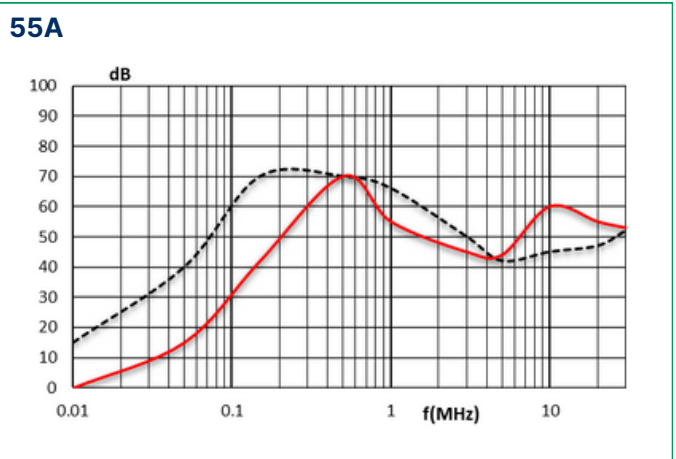
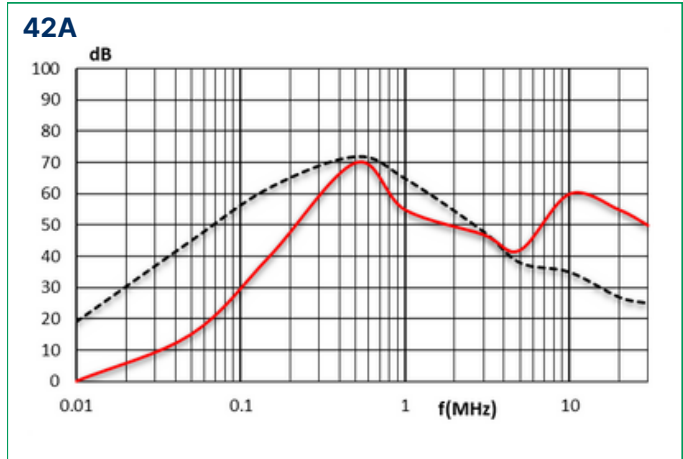
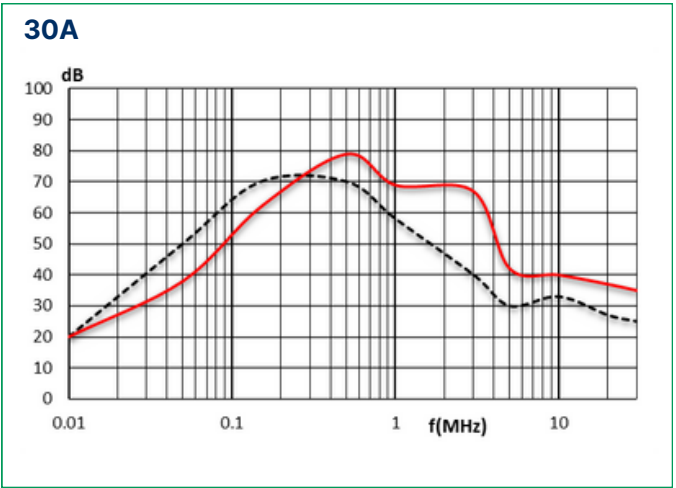
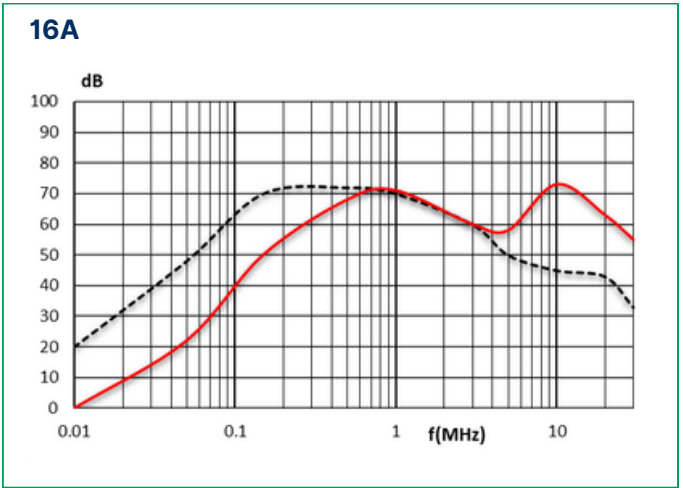
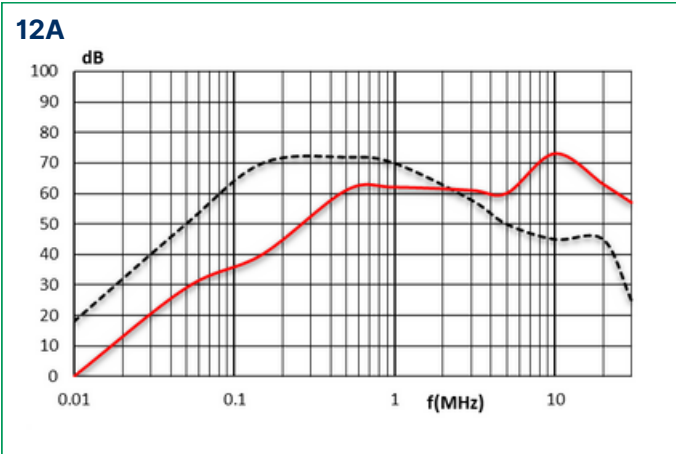
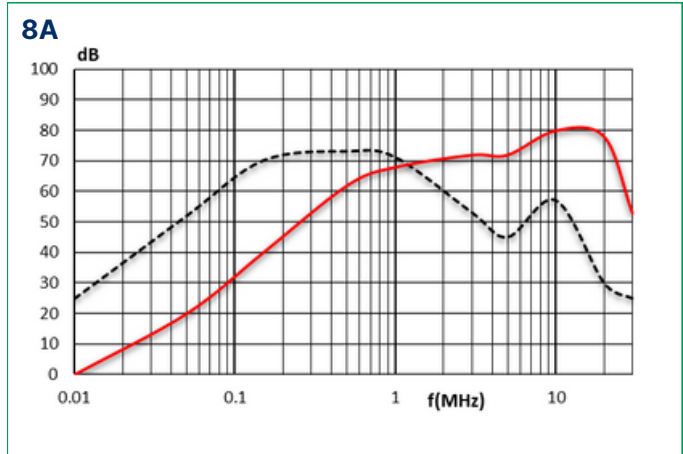
*The Part is UL Approved

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

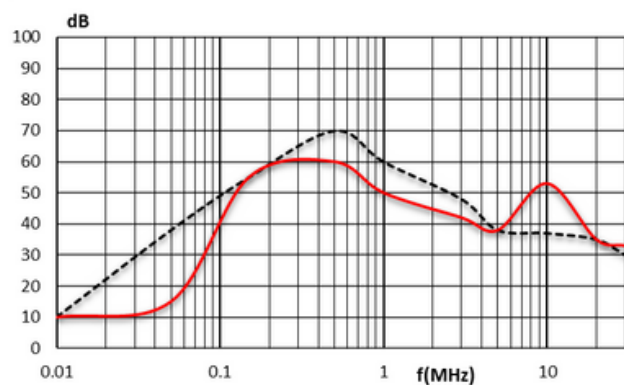
Insertion Loss

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

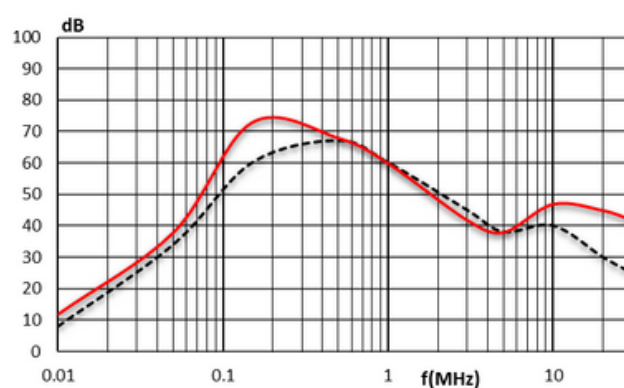
Per CISPR 17; C=50Ω/50Ω D=50Ω/50Ω



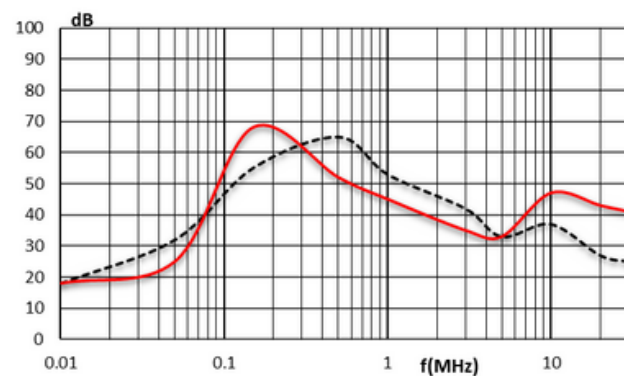
75A



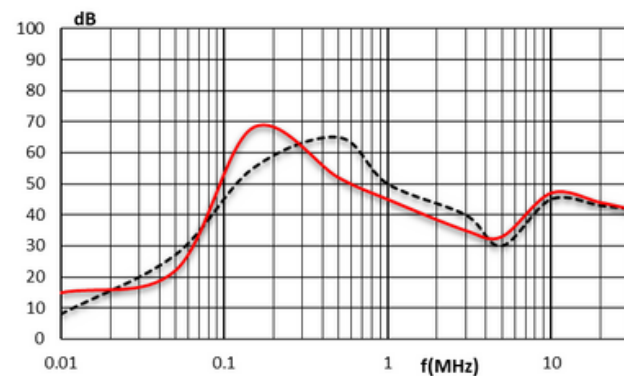
100A



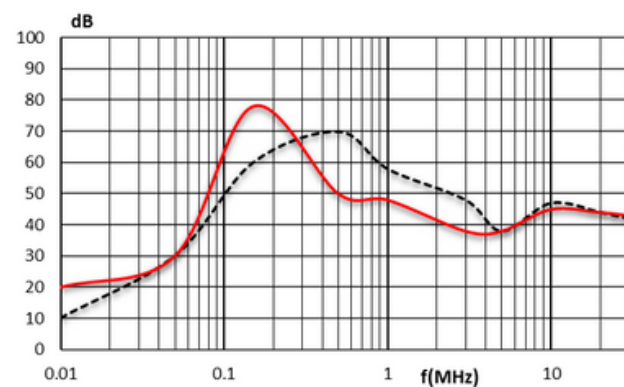
130A



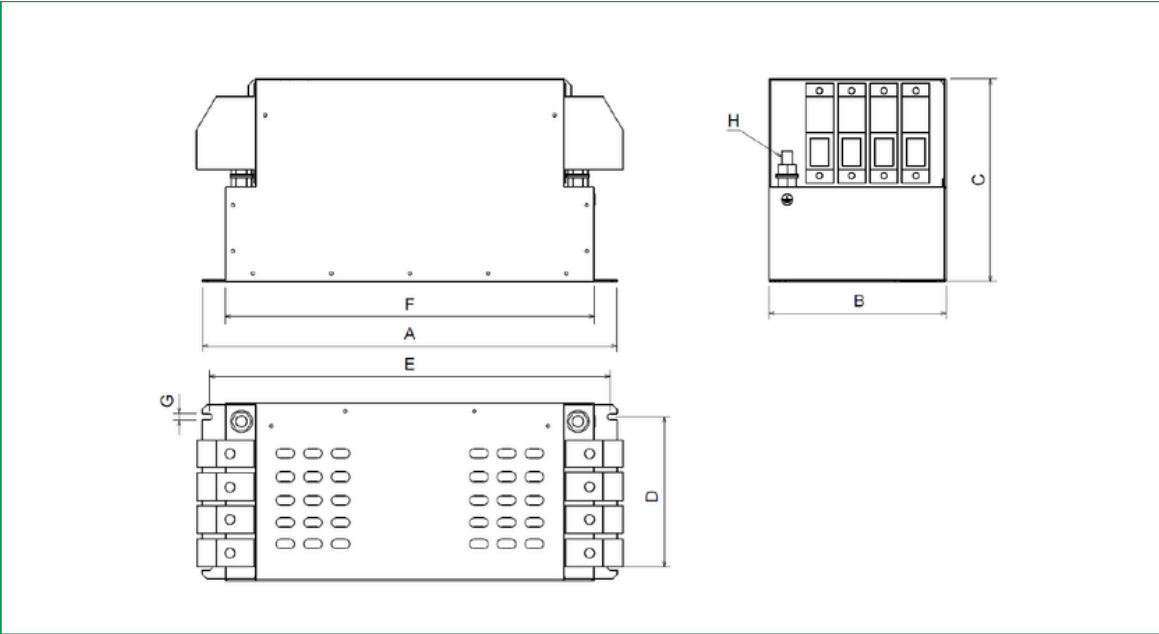
180A



250A



Mechanical Drawing



Termination & Torque details

	4mm ²	6mm ²	16mm ²	35mm ²	50mm ²	150mm ²
Torque in Nm	0.5-1	1.19-1.46	2	2	2.5-3	14-20
Earth terminal	M5	M5	M6	M8	M10	M10
Torque in Nm	3	3	6	12	20	20

Mechanical Dimensions

Current rating (A)	A	B	C	D	E	F	G	H
8	190	55	75	30	180	166	5.5	M5
12	220	55	75	30	210	190	5.5	M5
16	250	55	75	30	240	220	5.5	M5
30	270	70	95	45	255	240	5.5	M5
42	310	70	95	40	295	280	5.5	M6
55	250	100	95	70	235	215	5.5	M6
75	270	100	150	70	255	240	6.5	M8
100	320	115	150	85	305	285	6.5	M10
130	320	115	150	85	305	285	6.5	M10
180	380	155	180	125	365	345	6.5	M10
250	450	186	220	155	435	410	6.5	M12

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