



TMS series



The TMS series are an off-the-shelf line filter which can be used in commercial applications such as data centers and manufacturing.

Three Phase High Attenuation Characteristics

Delta or wye configuration

(150KHz ~ 1MHz) 2-Stage Filter

Steel Case / Safety Cover

Easy Push-Down Terminal Block



		UNIT	TMS50-06	TMS50-10	TMS50-20	TMS50-30
INPUT	Max Voltage	V	AC 500 / DC 500			
	Frequency	Hz	50/60			
	Phase		Three phase			
	Rated Current *1	A	6	10	20	30
	Voltage Drop	V	0.3V max			
	Leakage Current	250V	2.5mA max			
		500V	5.0mA max			
	DC Resistance	mΩ	290	120	50	26
Temp Rise	°C	50C max				

		TMS50-06	TMS50-10	TMS50-20	TMS50-30
ISOLATION	Isolation Resistance	100MΩ Min (500VDC / 1Min)			
	Test Voltage	2,500VAC (at cut off current 100mA / 1Min)			
ENVIRONMENT	Operating Temp & Humidity	-25 ~ +85°C 20~95% RH (Non Condensing)			
	Storage Temp & Humidity	-40 ~ +85°C 20~95% RH (Non Condensing)			
	Vibration	10~55Hz at 2G 3minutes period, 1hour each X,Y and Z			
DIMENSION	WxLxH (mm)	210x55x95		240x60x105	
WEIGHT	Grams	901		1400	
SAFETY	Approved by standard UL1283, CSA C22.2 No.8(C-UL), IEC/EN60939-2				





		UNIT	TMS50-40	TMS50-50	TMS50-60
INPUT	Max Voltage	V	AC 500 / DC 500		
	Frequency	Hz	50/60		
	Phase		Three phase		
	Rated Current *1	A	40	50	60
	Voltage Drop	V	0.3V max		
	Leakage Current	250V	2.5mA max		
		500V	5.0mA max		
	DC Resistance	mΩ	20	14	10
Temp Rise	°C	50C max			

		TMS50-40	TMS50-50	TMS50-60
ISOLATION	Isolation Resistance	100MΩ Min (500VDC / 1Min)		
	Test Voltage	2,500VAC (at cut off current 100mA / 1Min)		
ENVIRONMENT	Operating Temp & Humidity	-25 ~ +85°C 20~95% RH (Non Condensing)		
	Storage Temp & Humidity	-40 ~ +85°C 20~95% RH (Non Condensing)		
	Vibration	10~55Hz at 2G 3minutes period, 1hour each X,Y and Z		
DIMENSION	WxLxH (mm)	278x70x128		
WEIGHT	Grams	2800		
SAFETY		Approved by standard UL1283, CSA C22.2 No.8(C-UL), IEC/EN60939-2		

Notes:

*1 For temperatures below 50C. See derating when above 50C

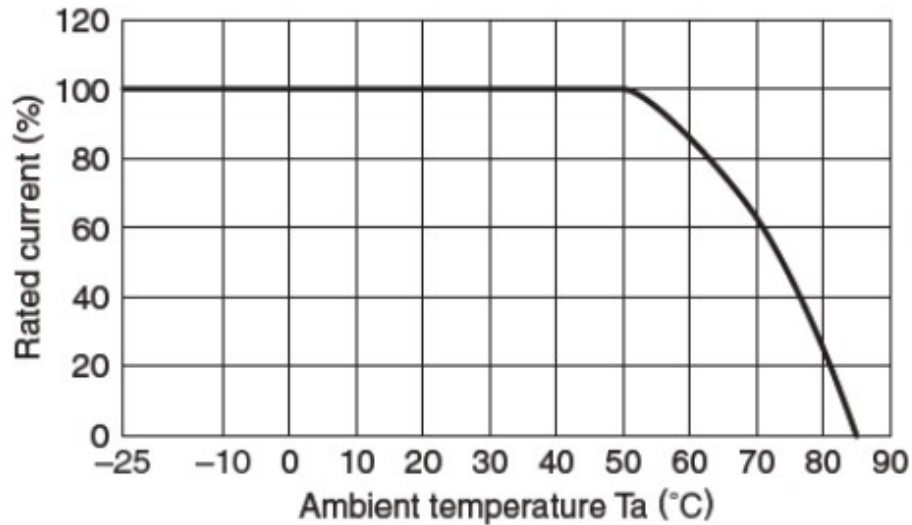




HOW TO ORDER

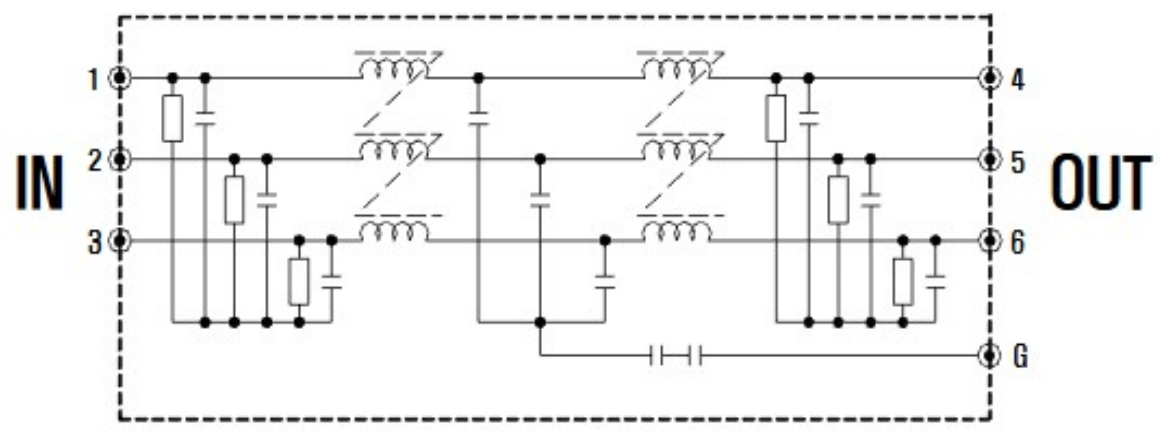
SERIES	PHASE	VOLTAGE	CURRENT	ADDITIONAL OPTIONS
TMS50-06	3Ø	AC500/DC500	6	
TMS50-10	3Ø	AC500/DC500	10	
TMS50-20	3Ø	AC500/DC500	20	
TMS50-30	3Ø	AC500/DC500	30	
TMS50-40	3Ø	AC500/DC500	40	
TMS50-50	3Ø	AC500/DC500	50	
TMS50-60	3Ø	AC500/DC500	60	

TEMPERATURE DERATING





CIRCUIT DIAGRAM





Connections

1-2. Terminal Connection

Marking	Pin Connection		Function
1	INPUT	AC R	Noise filter AC input terminal
2		AC S	
3		AC T	
4	OUTPUT	AC R	Noise filter AC output terminal
5		AC S	
6		AC T	
G	Flame ground		CASE

1-3. Applicable Electric Cable

AWG (A)	Cross-sectional area (mm ²)		AWG SIZE
6	0.75		18
10	1.0		16
16	1.5		14
20	2.5		12
30	4.0		10
40	6.0		8
50	10.0		6
60	10.0		6

1-4. Recommended Clamping Torque

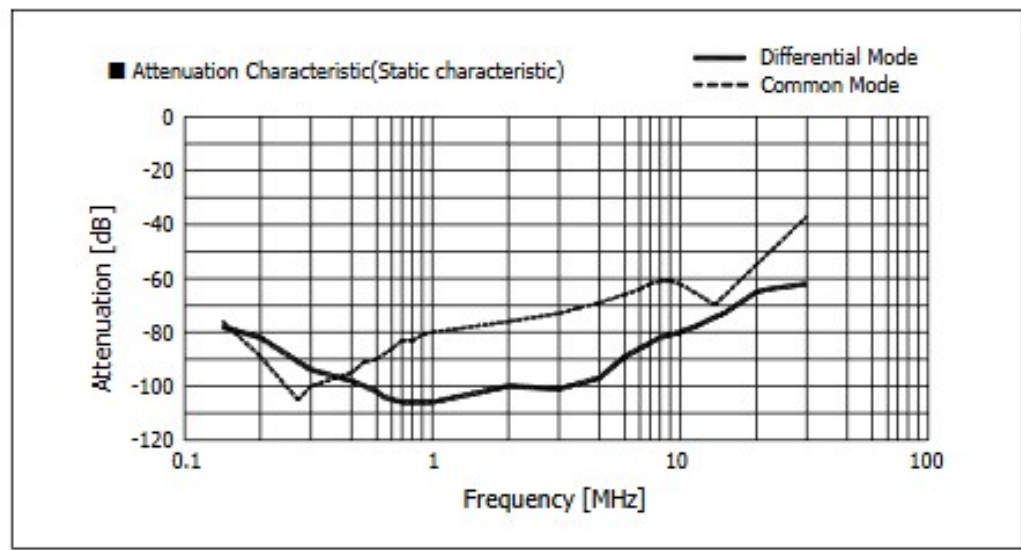
Screw	Torque	
M4	1.27N·m	
M5	2.50N·m	



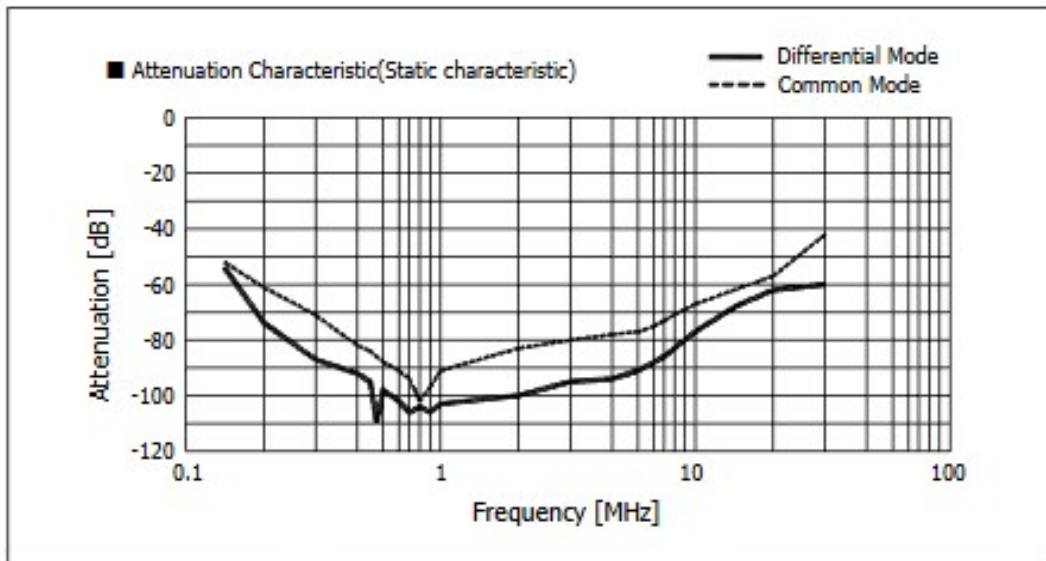


ATTENUATION

TMS50-6

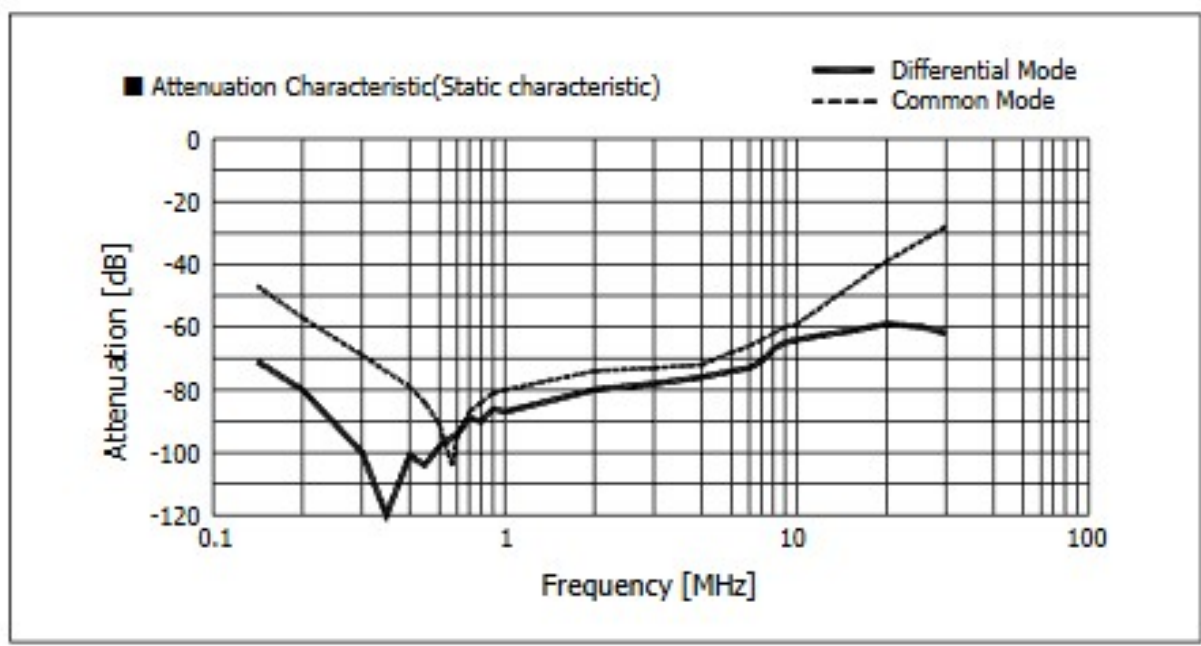


TMS50-10

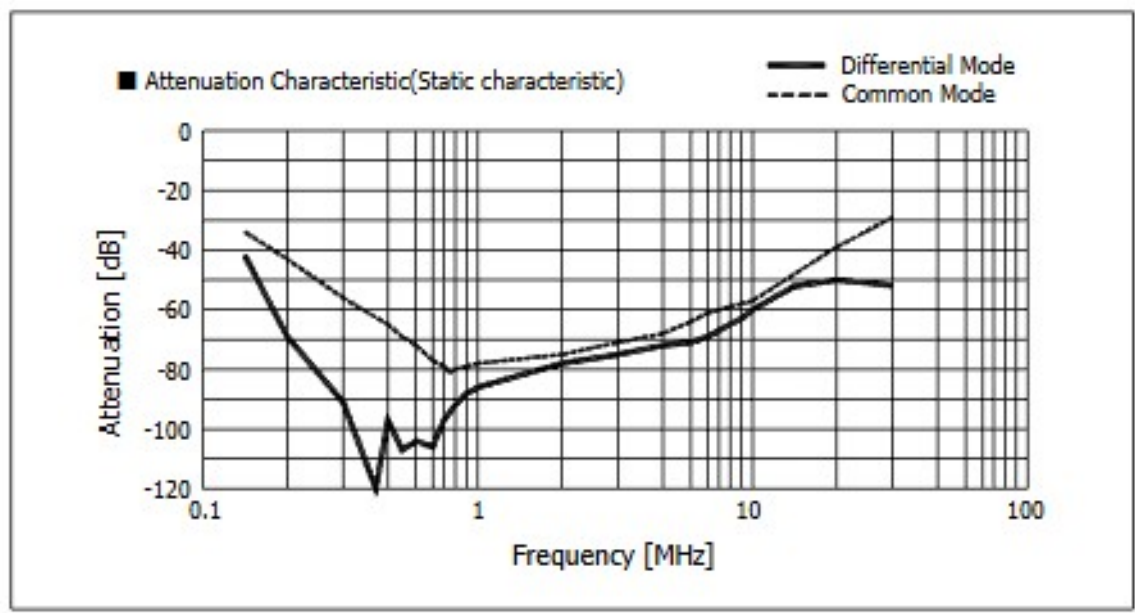




TMS50-20

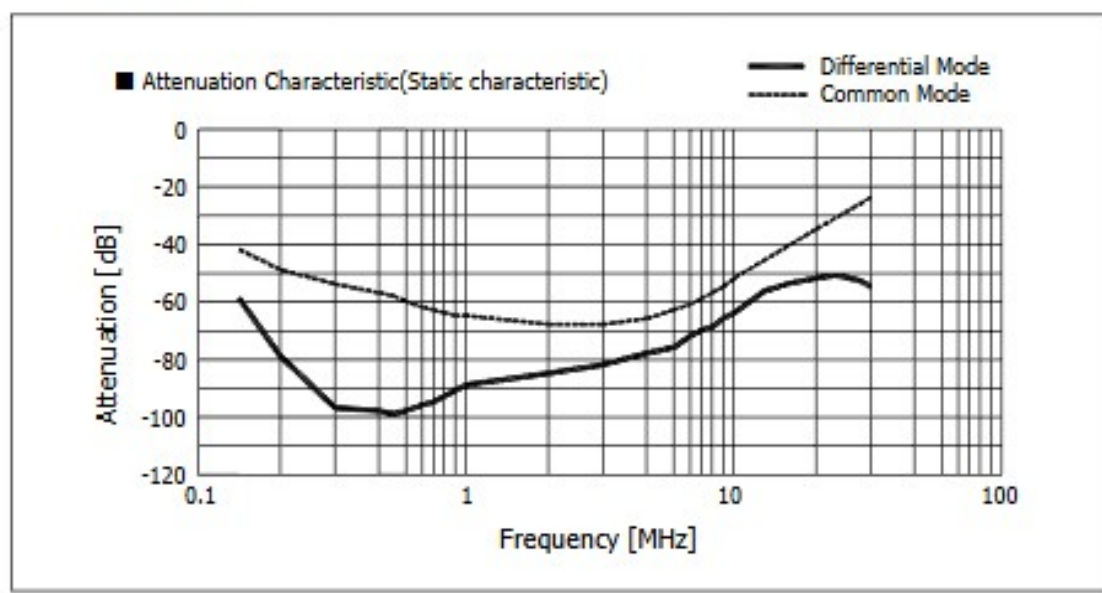


TMS50-30

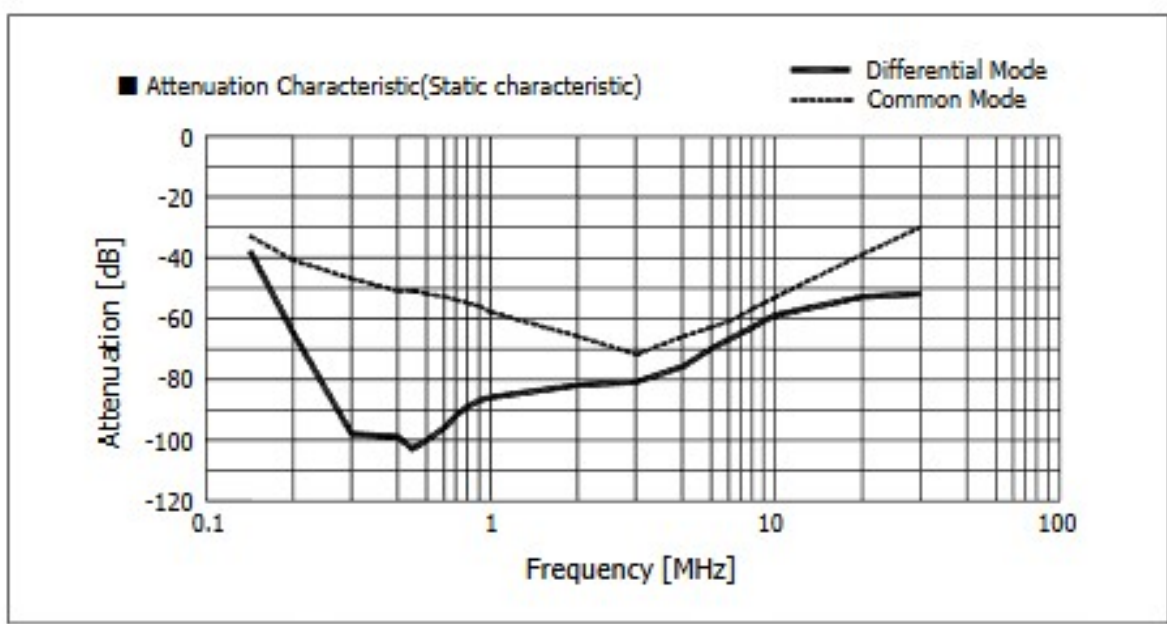




TMS50-40

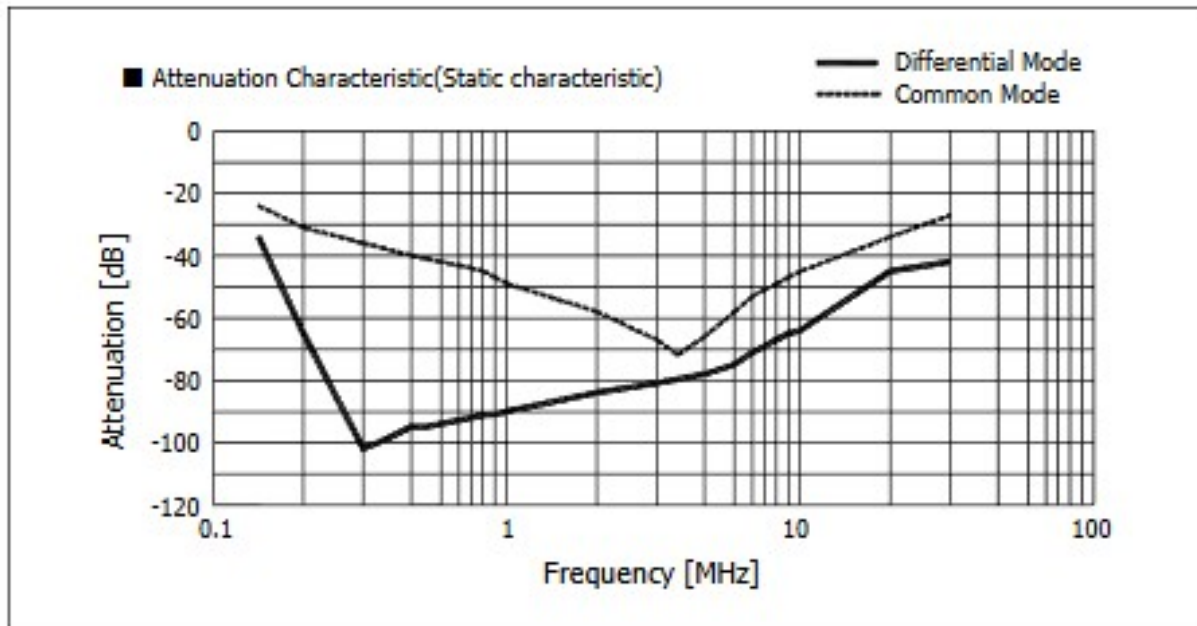


TMS50-50





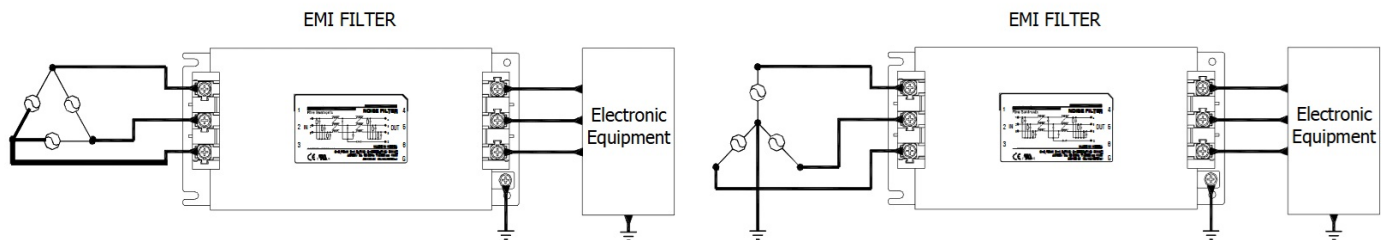
TMS50-60



$$\text{Attenuation [dB]} = -20 \log(E1/E2)$$

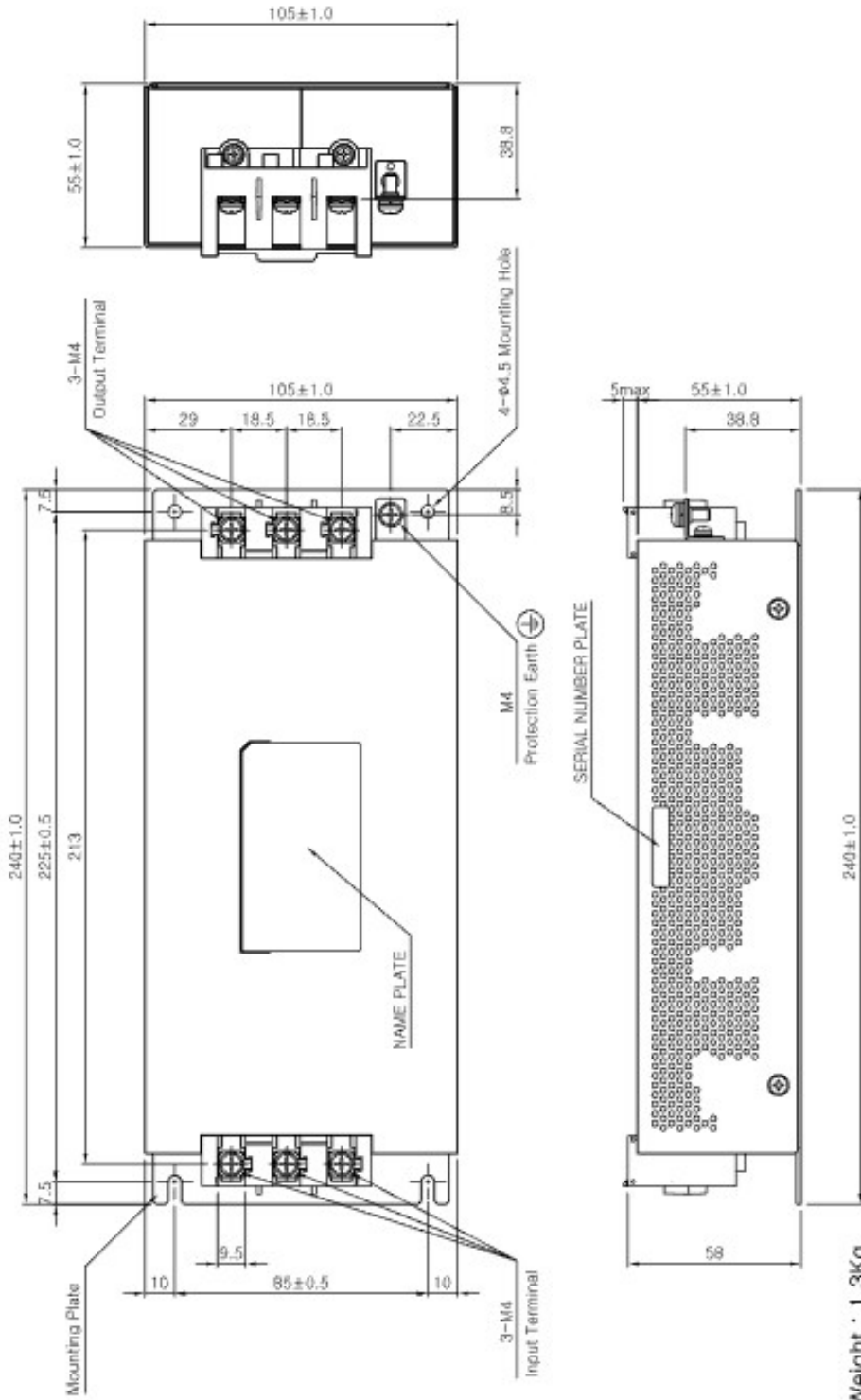
E1 = Voltage in state without filter E2 = Voltage in state with filters

How to Setup





TMSxx -20, -30



- * Weight : 1.3Kg
- * Tolerance : ± 1
- * Dimensions in mm





TMSxx -40, -50, -60

