

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	07JUL2020	SB	LI

SAFETY ORGANIZATIONS
THIS FILTER WILL BE FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS WILL BE MET:

UL RECOGNIZED* 6A 440V 50Hz/60Hz 40°C
CSA CERTIFIED** 6A 440V 50Hz/60Hz 40°C
*31 JULY 2020 ; **31 AUGUST 2020

OPERATING SPECIFICATION
LINE CURRENT/VOLTAGE: 6A, 440VAC
LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 8.5mA @ 230VAC, 50Hz
OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -25°C TO +40°C

IN AN AMBIENT, T_a, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I_o, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

RELIABILITY SPECIFICATIONS
STORAGE TEMPERATURE: -40°C TO +85°C
HUMIDITY: 21 DAYS @ 40°C AND 95% RH

TEST SPECIFICATIONS
INDUCTANCE, NOMINAL: 9.5mH

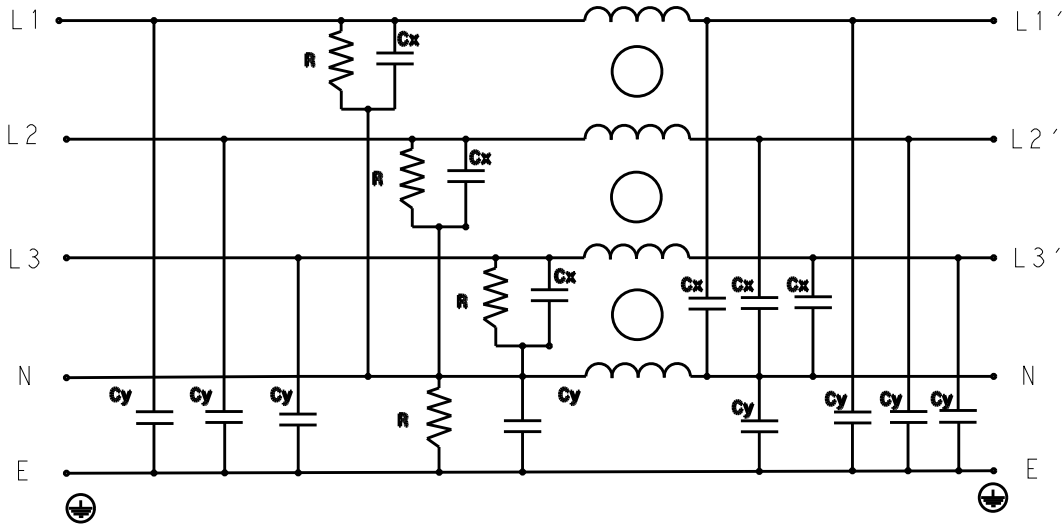
CAPACITANCE @ 1kHz
LINE TO GROUND, NOMINAL: 1.1µF
NEUTRAL TO GROUND, NOMINAL: 2.2µF
LINE TO NEUTRAL, NOMINAL: 2µF

DISCHARGE RESISTOR
L/L I.R. 2MΩ 1W
L/N I.R. 1MΩ 1W
L/G I.R. 2MΩ 1W
N/G I.R. 1MΩ 1W
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECITON HIPOT
LINE TO GROUND FOR 1 MINUTE: 2632VDC
LINE TO LINE FOR 1 MINUTE: 1892VDC
LINE TO NEUTRAL FOR 1 MINUTE: 1093VDC

FILTER APPROVAL
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

LINE SIDE



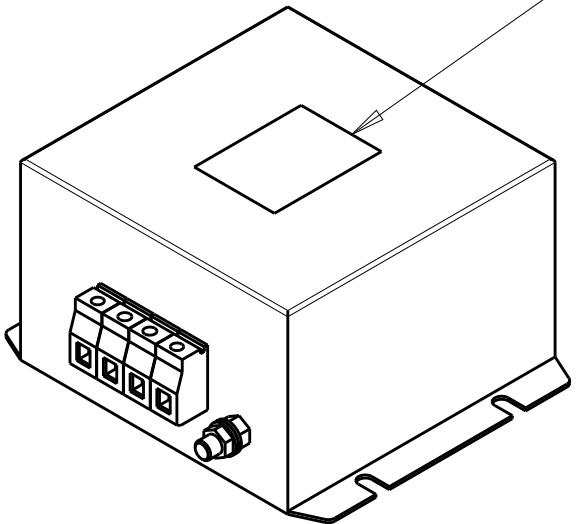
SCHEMATIC

LOAD SIDE

TYPICAL INSERTION LOSS
COMMON MODE 50/50Ω; DIFFERENTIAL MODE 50/50Ω

MHz	0.01	0.05	0.15	0.5	1	3	5	10	30
CM	61	60	60	55	49	40	38	34	26
DM	56	52	54	50	47	35	30	40	32

LABEL TO TE
MARKING SPECIFICATION



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 28FEB2020 SHRICARANA B	TE Connectivity		
		CHK 28FEB2020 LEO IRUDHAYARAJ			
		APVD 28FEB2020 LEO IRUDHAYARAJ			
		PRODUCT SPEC			
DIMENSIONS: mm		TOLERANCES UNLESS OTHERWISE SPECIFIED:	NAME POWER LINE FILTER 6KEPS10AFPW		
		0 PLC ±0.5 1 PLC ±0.4 2 PLC ±0.40 3 PLC ±0.130 4 PLC ±0.0500 ANGLES ±0.5	APPLICATION SPEC		
MATERIAL		FINISH	RESTRICTED TO		
-		-	-		
-		-	-		
CUSTOMER DRAWING			SIZE A3	CAGE CODE 00779	DRAWING NO C-1-1609968-0
			SCALE 1:2	SHEET 1 OF 2	REV B

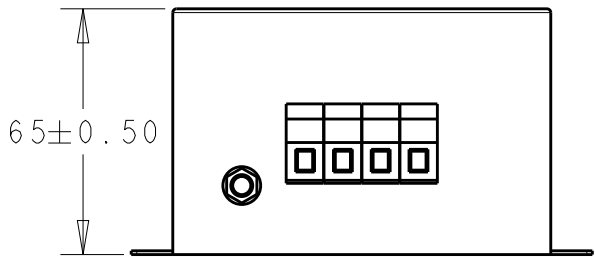
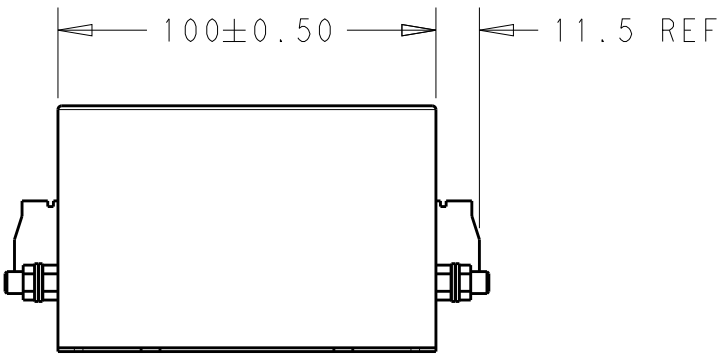
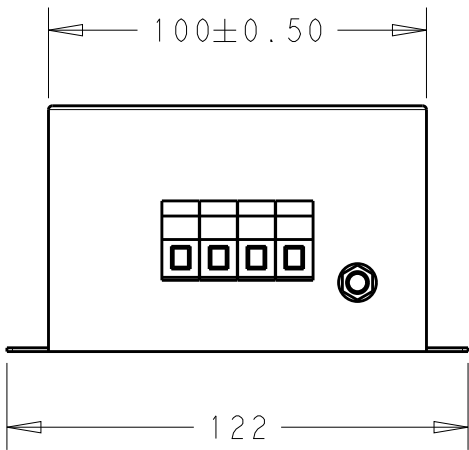
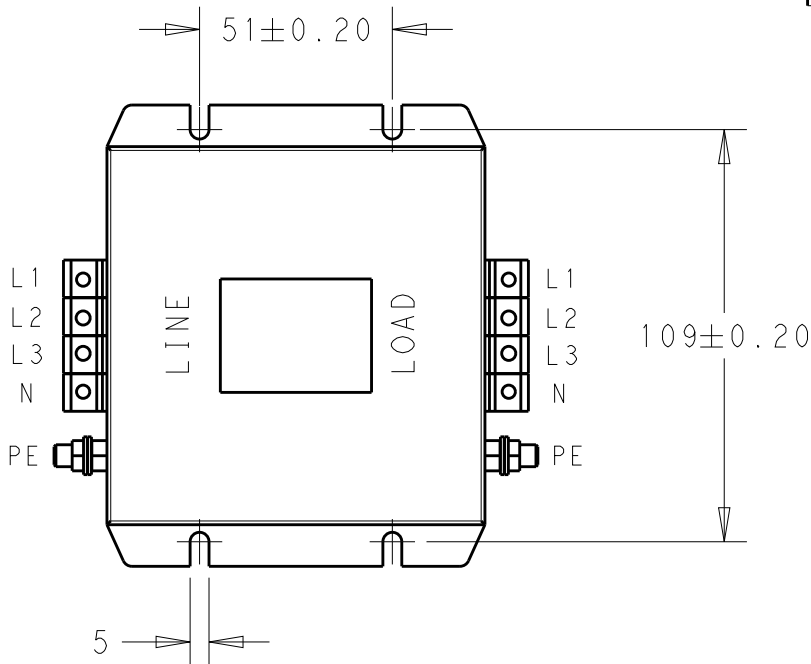
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NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL SCREWS: 0.5Nm / 4.5 in.lbs
TORQUE GROUND NUTS: 2.5-3Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL
AWG SIZE: 26-12 AWG
WIRE SECTION: 4 mm²
THREADED BOLT SIZE FOR GROUND: M6

REVISIONS

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		SEE SHEET 1			



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		PRODUCT SPEC			
		APPLICATION SPEC	NAME POWER LINE FILTER 6KEPS10AFPW		
		WEIGHT	SIZE	CAGE CODE	DRAWING NO
MATERIAL		FINISH	A3	00779	C-1-1609968-0
			RESTRICTED TO		
			SCALE 1:2 SHEET 2 OF 2 REV B		
		CUSTOMER DRAWING			