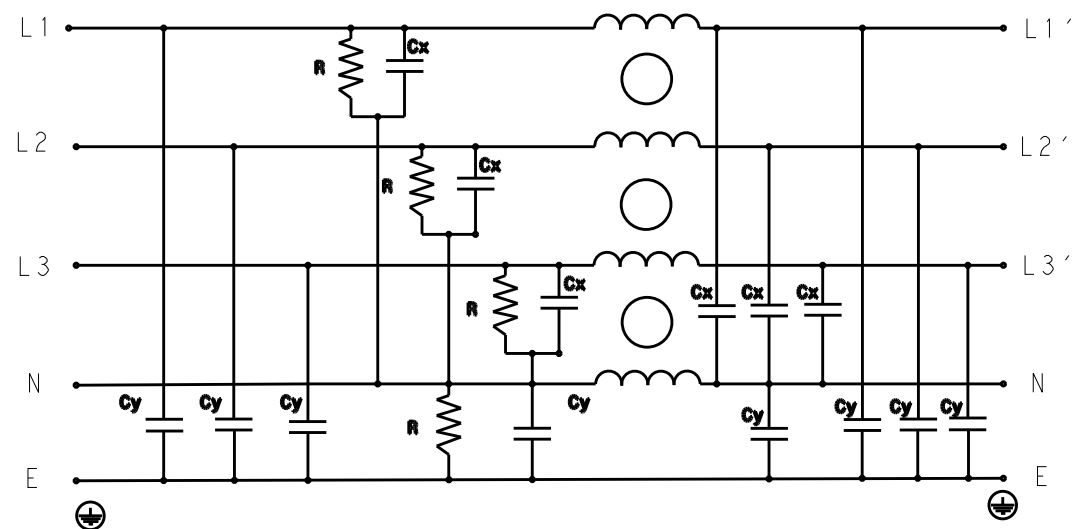


REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	08JUL2020	SB	LI

LINE SIDE

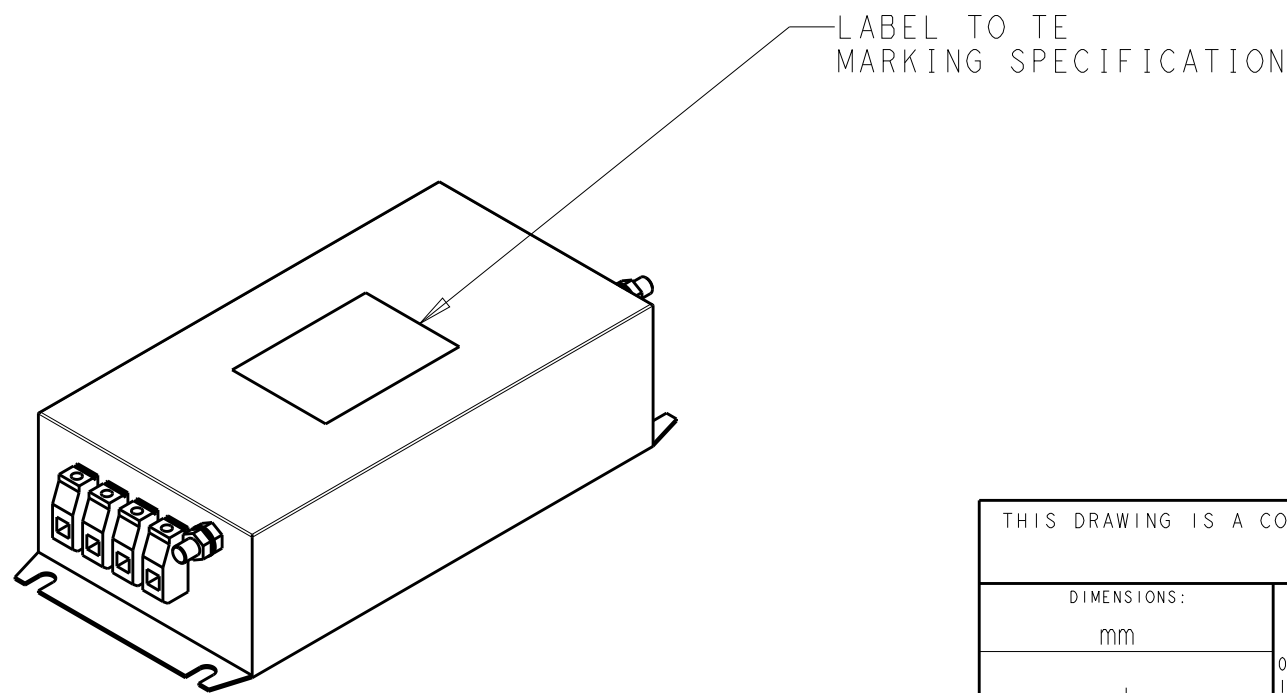


SCHEMATIC

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	54	50	50	52	60	48	42	38	34
DM	48	42	40	62	38	44	42	40	32



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\* 100A 520V 50Hz/60Hz 40°CUL  
 CSA CERTIFIED\*\* 100A 520V 50Hz/60Hz 40°C  
 \*31 JULY 2020 ; \*\*31 AUGUST 2020

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 100A, 520VAC  
LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 12mA @ 230VAC, 50Hz

OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -25°C TO +40°C

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, 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: 0.1mH

CAPACITANCE @ 1kHz

LINE TO GROUND, NOMINAL: 1.95μF  
NEUTRAL TO GROUND, NOMINAL: 2.2μF  
LINE TO NEUTRAL, NOMINAL: 13.6μF

DISCHARGE RESISTOR

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

RECOMMENDED RECEIVING INSPECITON HIPOI

LINE TO GROUND FOR 1 MINUTE: 2856VDC  
LINE TO LINE FOR 1 MINUTE: 2236VDC  
LINE TO NEUTRAL FOR 1 MINUTE: 1290VDC

FILTER APPROVAL

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

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 28FEB2020 SHRICHARANA B			
DIMENSIONS: mm		CHK 28FEB2020 LEO IRUDHAYARAJ			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		APVD 28FEB2020 LEO IRUDHAYARAJ		NAME POWER LINE FILTER 100KEPS10BFPW	
0 PLC ±-		PRODUCT SPEC		SIZE	
1 PLC ±0.5		APPLICATION SPEC		CAGE CODE	
2 PLC ±0.40		WEIGHT		DRAWING NO	
3 PLC ±0.130		CUSTOMER DRAWING		RESTRICTED TO	
4 PLC ±0.0500		SCALE 1:4		SHEET 1 OF 2	
ANGLES ±-		REV B			
MATERIAL		FINISH			

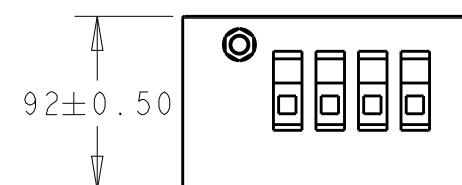
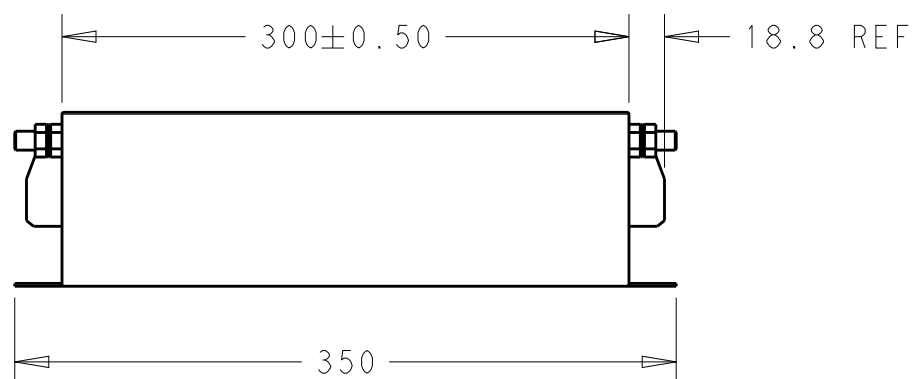
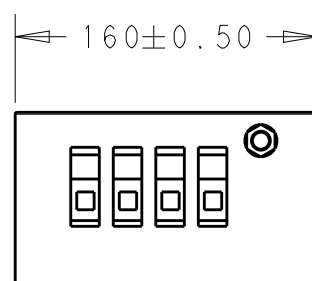
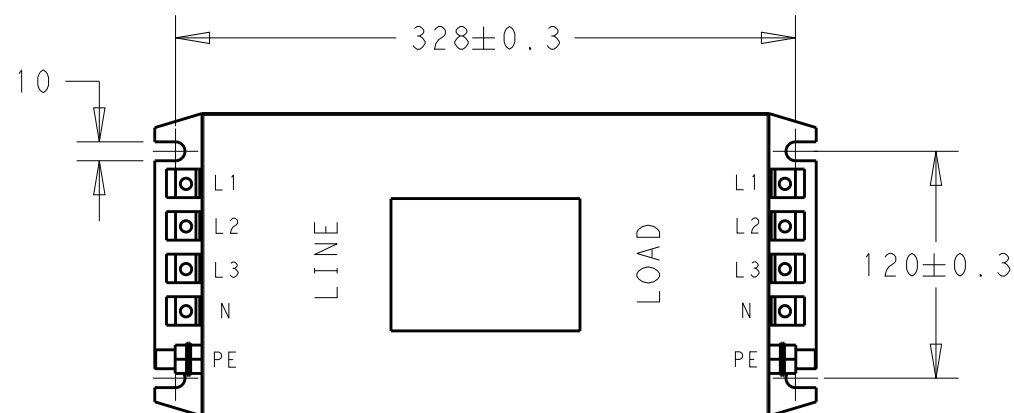
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NOTE 1 GROUND CONNECTION:  
 DO NOT LOOSEN INNER GROUND NUTS.  
 TORQUE OUTER TERMINAL SCREWS: 2 Nm / 18 in lbs  
 TORQUE GROUND NUTS: 4-10Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
 AWG SIZE: 8-4 AWG  
 WIRE SECTION: 25 mm<sup>2</sup>  
 THREADED BOLT SIZE FOR GROUND: M10

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICHARANA B 28FEB2020		
DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 28FEB2020		
		APVD LEO IRUDHAYARAJ 28FEB2020		
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC	NAME POWER LINE FILTER 100KEPS10BFPW	
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2 PLC ±0.40			DRAWING NO	
3 PLC ±0.130			SCALE	
4 PLC ±0.0500			SHEET	
ANGLES ±-			OF	
MATERIAL		CUSTOMER DRAWING	2	REV B
FINISH			2	