

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* 100A 520V 50Hz/60Hz 40°C
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: 6mA @ 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: 0.1mH

CAPACITANCE @ 1kHz
LINE TO GROUND, NOMINAL: 22nF
LINE TO LINE, NOMINAL: 2.5μF

DISCHARGE RESISTOR
L/G I.R. 680KΩ 2W
L/L I.R. 2MΩ 2W
L/N I.R. XXX
N/G I.R. XXX
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECITON HIPOT
LINE TO GROUND FOR 1 MINUTE: 2856VDC
LINE TO LINE FOR 1 MINUTE: 2236VDC

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

LINE SIDE

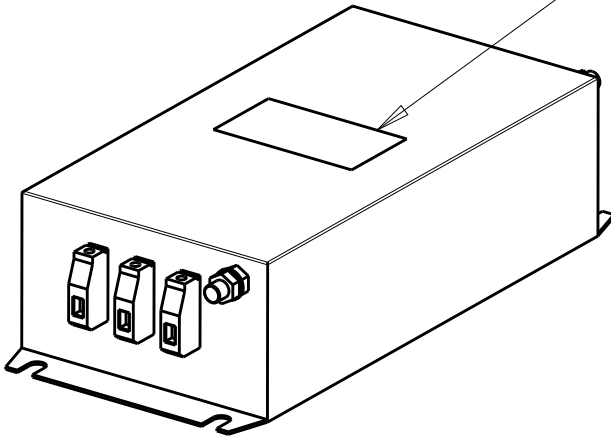
LOAD SIDE

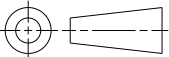
SCHEMATIC

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	2	4	3	17	23	25	25	32	38
DM	7	8	14	43	37	40	35	30	40

LABEL TO TE
MARKING SPECIFICATION



THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN 19FEB2020 SHRICARANA B	 TE Connectivity		
DIMENSIONS: mm		CHK 19FEB2020 LEO IRUDHAYARAJ			
		APVD 19FEB2020 LEO IRUDHAYARAJ			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC			
0 PLC ±-		-	NAME POWER LINE FILTER 100KEBS10BFPD		
1 PLC ±0.5		APPLICATION SPEC			
2 PLC ±0.40		-	SIZE	CAGE CODE	DRAWING NO
3 PLC ±0.130		WEIGHT	A3	00779	C-5-1609965-8
4 PLC ±0.0500		CUSTOMER DRAWING	SCALE 1:4 SHEET 1 OF 2 REV B		
ANGLES ±-					
MATERIAL		FINISH			
-		-			
-		-			

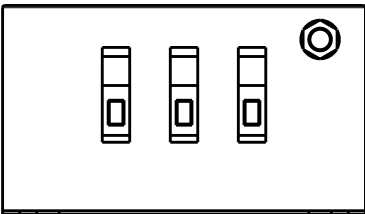
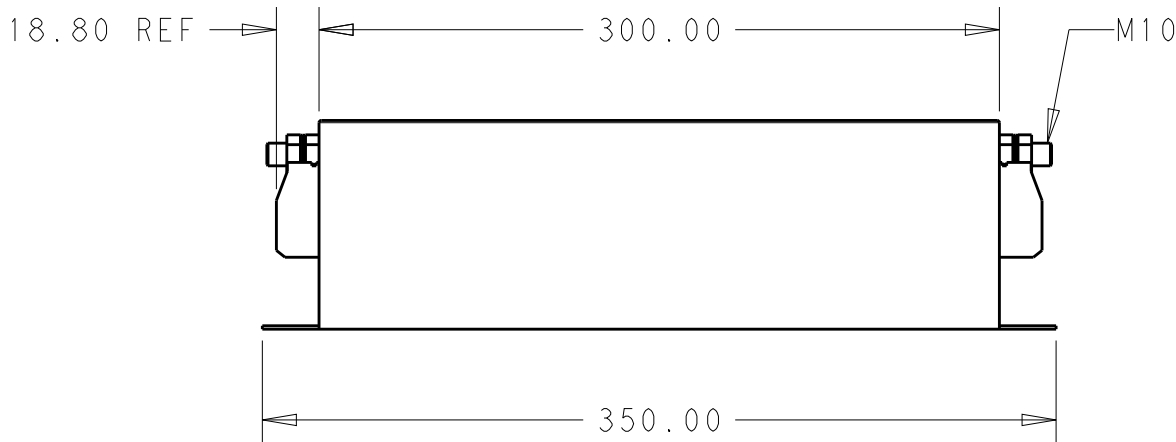
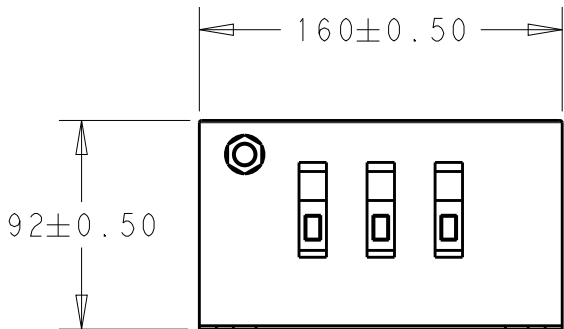
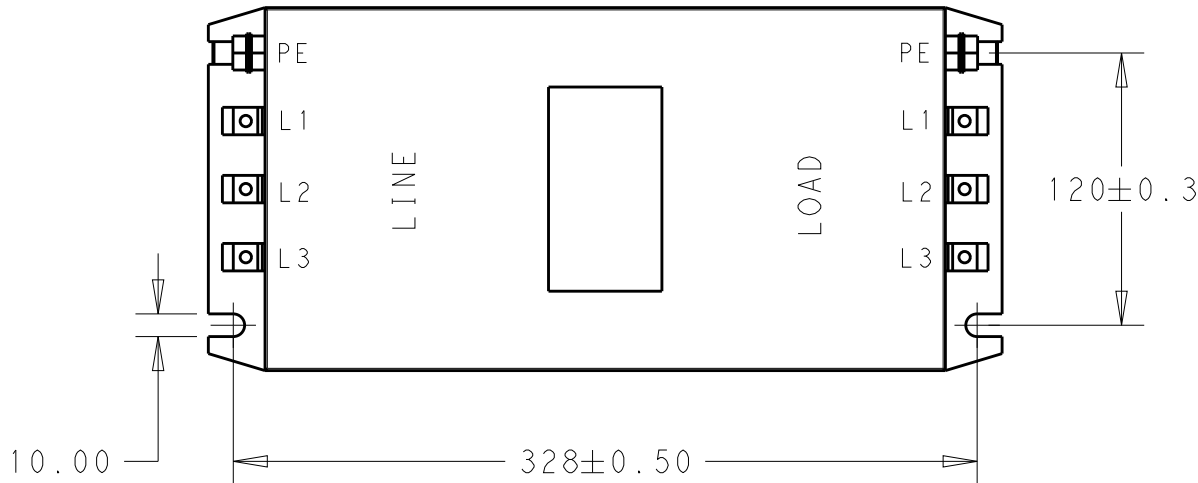
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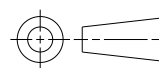
NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL SCREWS: 2 Nm / 18 in lbs
TORQUE GROUND NUTS: 4-10Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL
AWG SIZE: 8-4 AWG
WIRE SECTION: 25mm²
THREADED BOLT SIZE FOR GROUND: M10

REVISIONS

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		SEE SHEET 1			



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		APVD 19FEB2020 LEO IRUDHAYARAJ	NAME POWER LINE FILTER 100KEBS10BFPD		
		PRODUCT SPEC			
		APPLICATION SPEC			
MATERIAL		WEIGHT	SIZE	CAGE CODE	DRAWING NO
-		-	A3	00779	C-5-1609965-8
FINISH		CUSTOMER DRAWING	SCALE	SHEET	REV
-			3:10	2 OF 2	B