

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B	INITIAL RELEASE	08JUL2020	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* 30A 440V 50Hz/60Hz 50°C
CSA CERTIFIED** 30A 440V 50Hz/60Hz 50°C
*31 JULY 2020 ; **31 AUGUST 2020

OPERATING SPECIFICATION
LINE CURRENT/VOLTAGE: 30A, 440VAC
LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 5mA @ 230VAC, 50Hz
OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -10°C TO +50°C
IN AN AMBIENT, T_a, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I_o, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{105 - T_a}{55}}$$

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

TEST SPECIFICATIONS
INDUCTANCE, NOMINAL: 4.8mH

CAPACITANCE @ 1kHz
NEUTRAL TO GROUND, NOMINAL: 1µF
LINE TO NEUTRAL, NOMINAL: 3µF

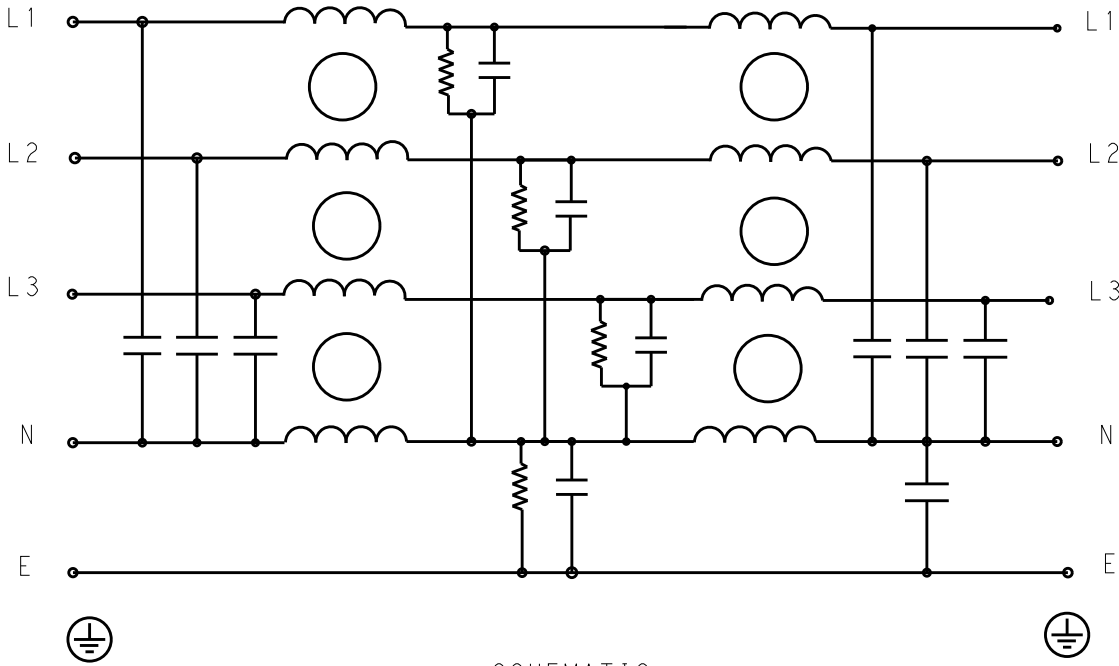
DISCHARGE RESISTOR
L/L I.R. 2MΩ 1W
L/N I.R. 1.5MΩ 1W
L/G I.R. 2MΩ 1W
N/G I.R. 680KΩ 1W
IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

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

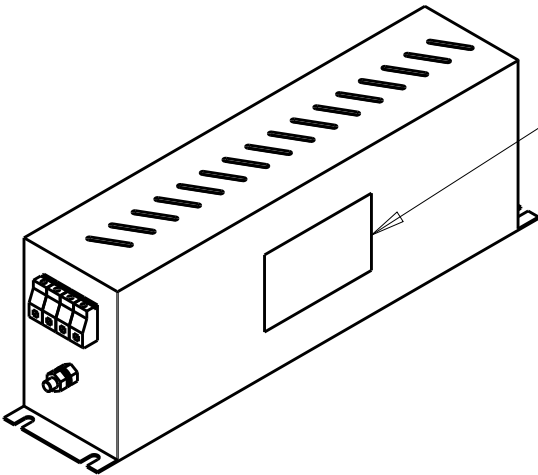
LOAD SIDE



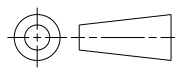
SCHEMATIC

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	49	50	60	79	77	64	56	48	34
DM	31	34	48	83	80	57	45	23	25



LABEL TO TE
MARKING SPECIFICATION

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN SHRICARANA B 24FEB2020	 TE Connectivity		
DIMENSIONS: mm		CHK LEO IRUDHAYARAJ 24FEB2020			
		APVD LEO IRUDHAYARAJ 24FEB2020			
TOLERANCES UNLESS OTHERWISE SPECIFIED:		PRODUCT SPEC			
0 PLC ±0.5 1 PLC ±0.40 2 PLC ±0.130 3 PLC ±0.0500 4 PLC ANGLES ±0.0500		APPLICATION SPEC	NAME POWER LINE FILTER 30KEVD10ABSW		
MATERIAL		WEIGHT	SIZE A3	CAGE CODE 00779	DRAWING NO C-2-1609998-2
FINISH		CUSTOMER DRAWING	SCALE 1:4	SHEET 1 OF 2	RESTRICTED TO REV B

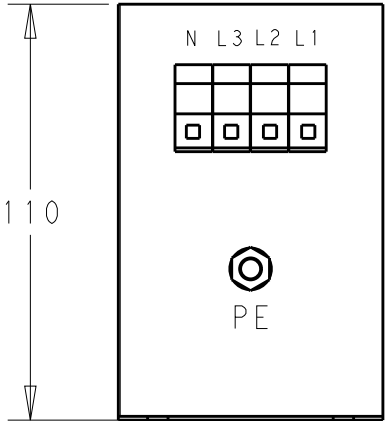
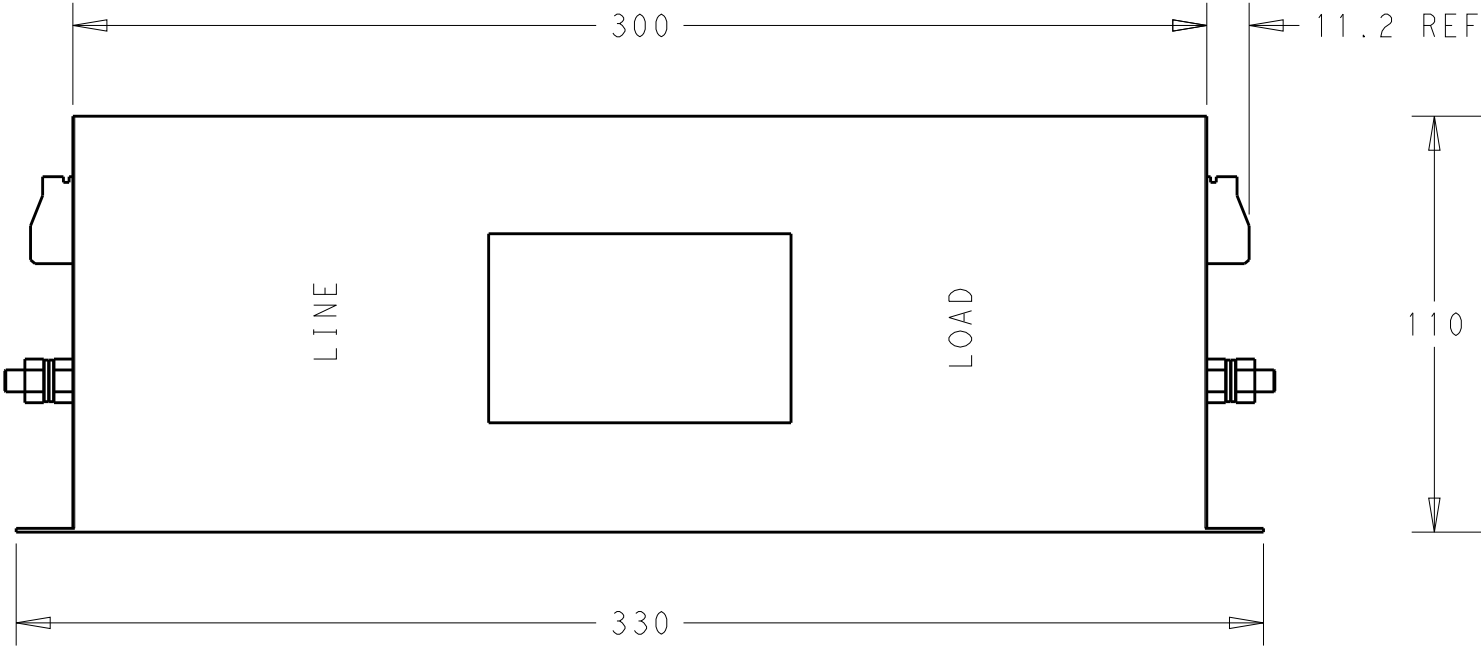
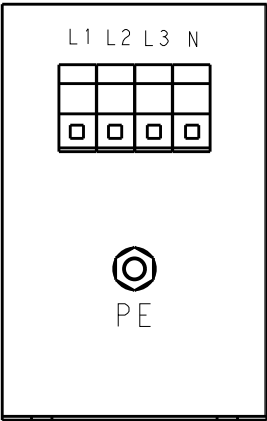
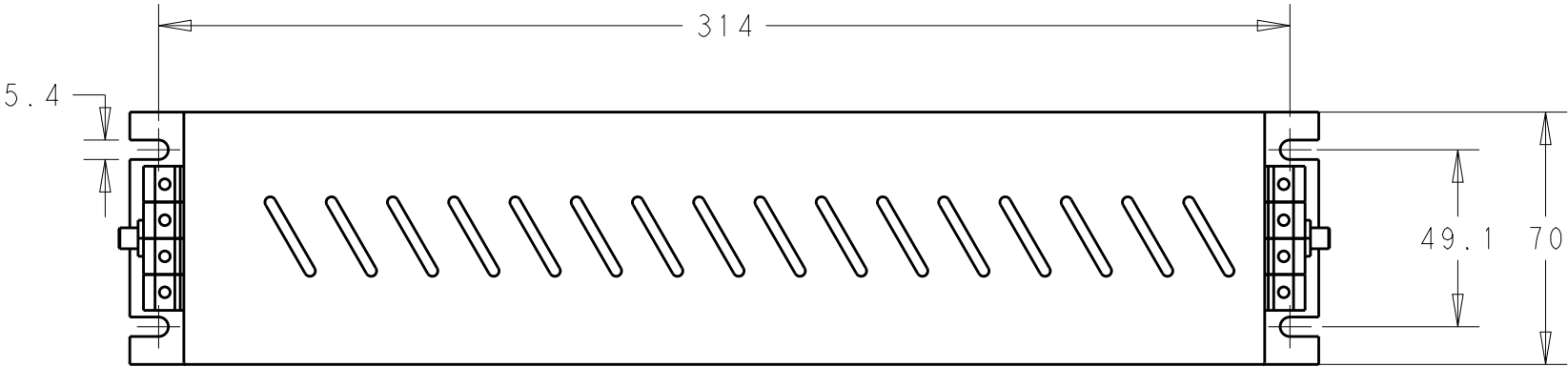
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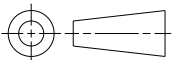
NOTE 1 GROUND CONNECTION:
DO NOT LOOSEN INNER GROUND NUTS.
TORQUE OUTER TERMINAL SCREWS: 0.5Nm / 4.5 in.lbs
TORQUE GROUND NUTS: 2.5-3Nm

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

REVISIONS

P	LTR	DESCRIPTION	DATE	DWN	APVD
		SEE SHEET 1			



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FINISH -		CUSTOMER DRAWING		SCALE 1:2		SHEET 2 OF 2		REV B			