

| 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\* 75A 520V 50Hz/60Hz 50°C  
CSA CERTIFIED\*\* 75A 520V 50Hz/60Hz 50°C  
\*31 JULY 2020 ; \*\*31 AUGUST 2020

OPERATING SPECIFICATION  
LINE CURRENT/VOLTAGE: 75A, 520VAC  
LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 11mA @ 230VAC, 50Hz  
OPERATING AMBIENT TEMPERATURE RANGE @ RATED CURRENT: -10°C TO +50°C  
IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, 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: 0.7mH

CAPACITANCE @ 1kHz  
NEUTRAL TO GROUND, NOMINAL: 2.2µF  
LINE TO NEUTRAL, NOMINAL: 6.6µF

DISCHARGE RESISTOR  
L/L I.R. 2MΩ 2W  
L/N I.R. 1.5MΩ 2W  
L/G I.R. 2MΩ 2W  
N/G I.R. 680kΩ 2W  
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  
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.

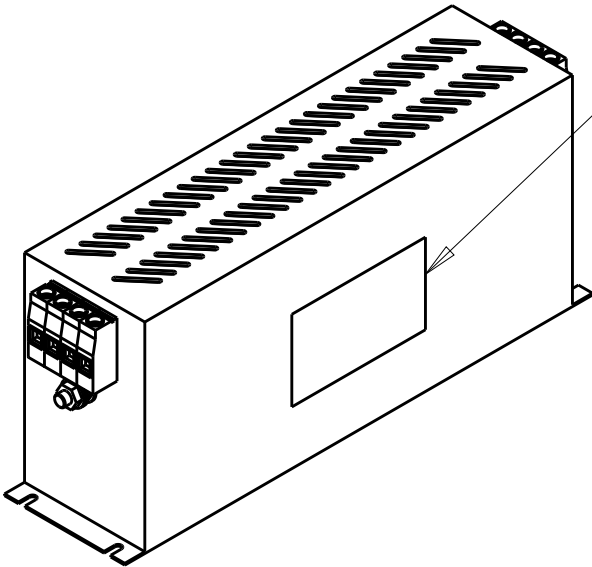
LINE SIDE

LOAD SIDE

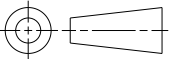
SCHEMATIC

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  | 42   | 40   | 28   | 32  | 35 | 51 | 50 | 46 | 21 |
| DM  | 40   | 38   | 25   | 21  | 34 | 46 | 48 | 30 | 24 |



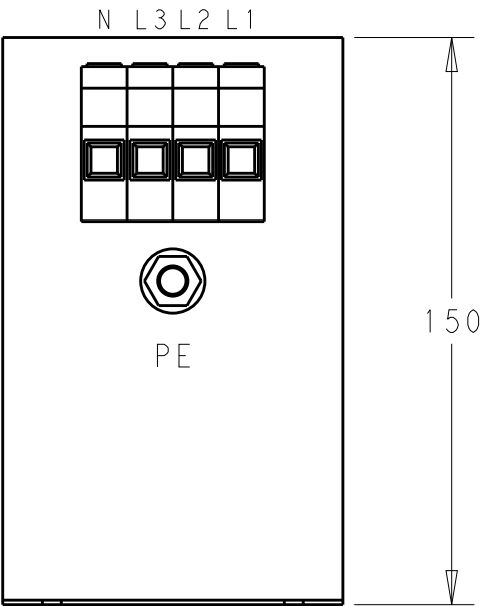
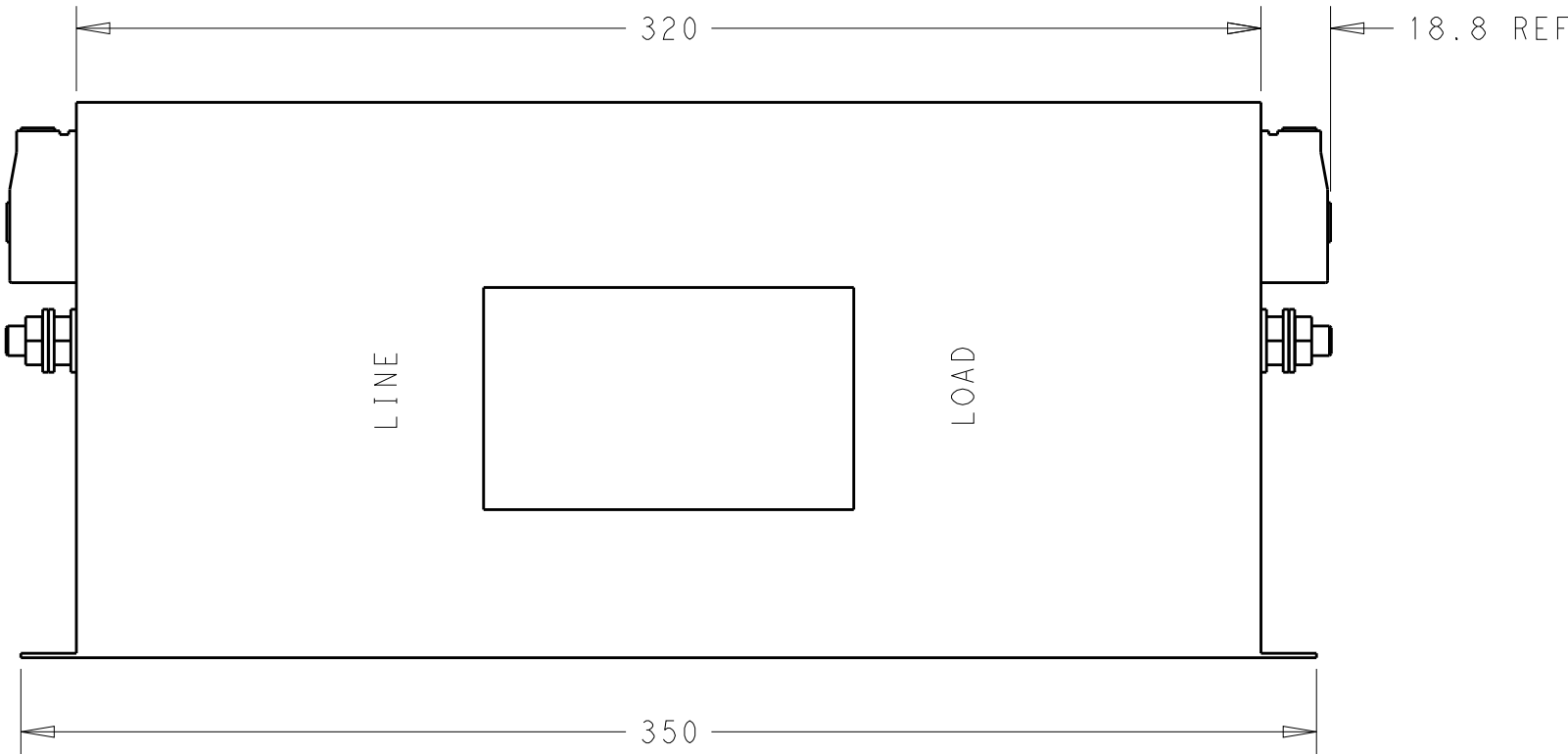
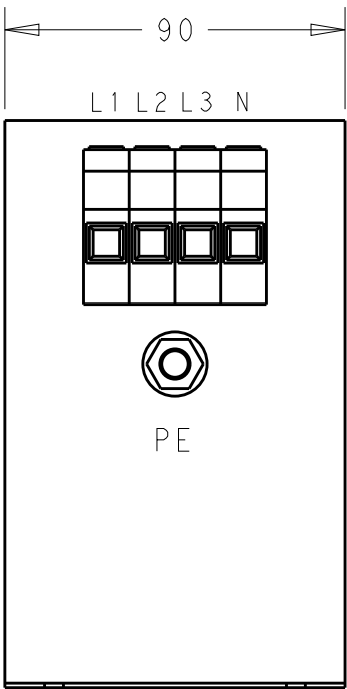
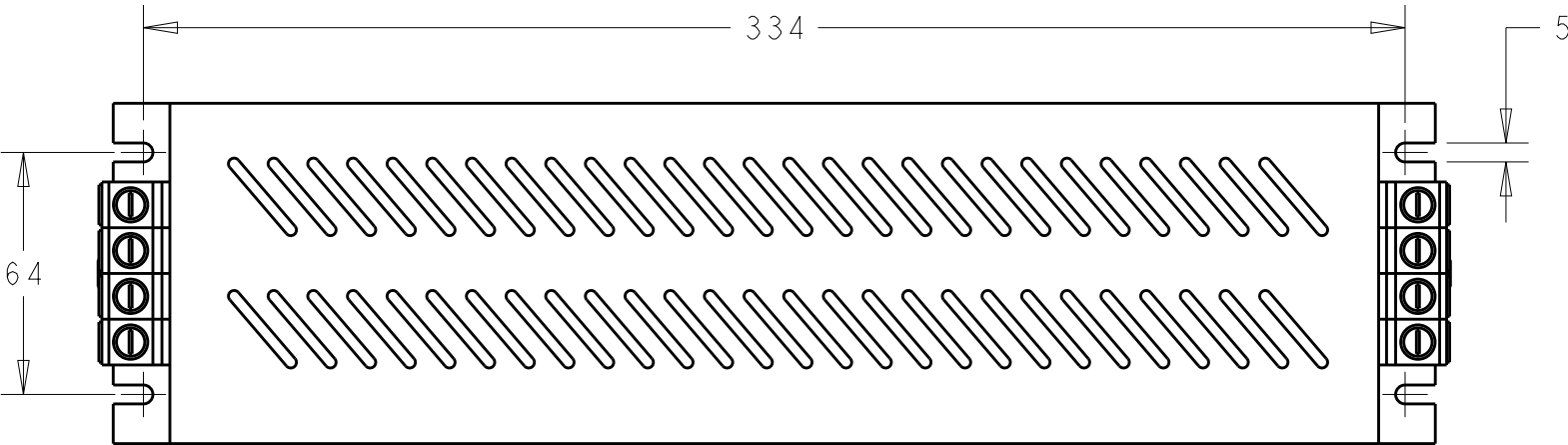
LABEL TO TE  
MARKING SPECIFICATION

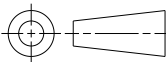
|                                                                                       |  |                                      |                                                                                                       |                    |                             |
|---------------------------------------------------------------------------------------|--|--------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------|-----------------------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |  | DWN<br>SHRICARANA B<br>20FEB2020     |  TE Connectivity |                    |                             |
| DIMENSIONS:<br>mm                                                                     |  | CHK<br>LEO IRUDHAYARAJ<br>20FEB2020  |                                                                                                       |                    |                             |
|  |  | APVD<br>LEO IRUDHAYARAJ<br>20FEB2020 |                                                                                                       |                    |                             |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                |  | PRODUCT SPEC                         |                                                                                                       |                    |                             |
| 0 PLC ±0.5<br>1 PLC ±0.40<br>2 PLC ±0.130<br>3 PLC ±0.0500<br>4 PLC ANGLES ±0.0500    |  | APPLICATION SPEC                     | NAME<br>POWER LINE FILTER<br>75KEVD10BBSW                                                             |                    |                             |
| MATERIAL                                                                              |  | WEIGHT                               | SIZE<br>A3                                                                                            | CAGE CODE<br>00779 | DRAWING NO<br>C-5-1609998-5 |
| FINISH                                                                                |  | CUSTOMER DRAWING                     | SCALE<br>1:4                                                                                          | SHEET<br>1 OF 2    | RESTRICTED TO<br>REV B      |

NOTE 1 GROUND CONNECTION:  
DO NOT LOOSEN INNER GROUND NUTS.  
TORQUE OUTER TERMINAL SCREWS: 2-2.2Nm / 18 -19.8 in.lbs  
TORQUE GROUND NUTS: 3.5-6Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
AWG SIZE: 12-8 AWG  
WIRE SECTION: 16mm<sup>2</sup>  
THREADED BOLT SIZE FOR GROUND: M8

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|---|-----|-------------|------|-----|------|
|   |     | SEE SHEET 1 |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |
|   |     |             |      |     |      |



|                                                                                       |                                                                                         |                                  |                                                                                                       |  |  |
|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.                                                |                                                                                         | DWN 20FEB2020<br>SHRICARANA B    |  TE Connectivity |  |  |
| DIMENSIONS:<br>mm                                                                     |                                                                                         | CHK 20FEB2020<br>LEO IRUDHAYARAJ |                                                                                                       |  |  |
|  | TOLERANCES UNLESS OTHERWISE SPECIFIED:                                                  |                                  | NAME<br>POWER LINE FILTER<br>75KEVD10BBSW                                                             |  |  |
|                                                                                       | 0 PLC ±0.5<br>1 PLC ±0.5<br>2 PLC ±0.40<br>3 PLC ±0.130<br>4 PLC ±0.0500<br>ANGLES ±0.5 |                                  | SIZE<br>A300779                                                                                       |  |  |
| MATERIAL<br>-                                                                         |                                                                                         | FINISH<br>-                      | DRAWING NO<br>C-5-1609998-5                                                                           |  |  |
|                                                                                       |                                                                                         |                                  | RESTRICTED TO<br>-                                                                                    |  |  |
|                                                                                       |                                                                                         | CUSTOMER DRAWING                 | SCALE 1:2 SHEET 2 OF 2 REV B                                                                          |  |  |