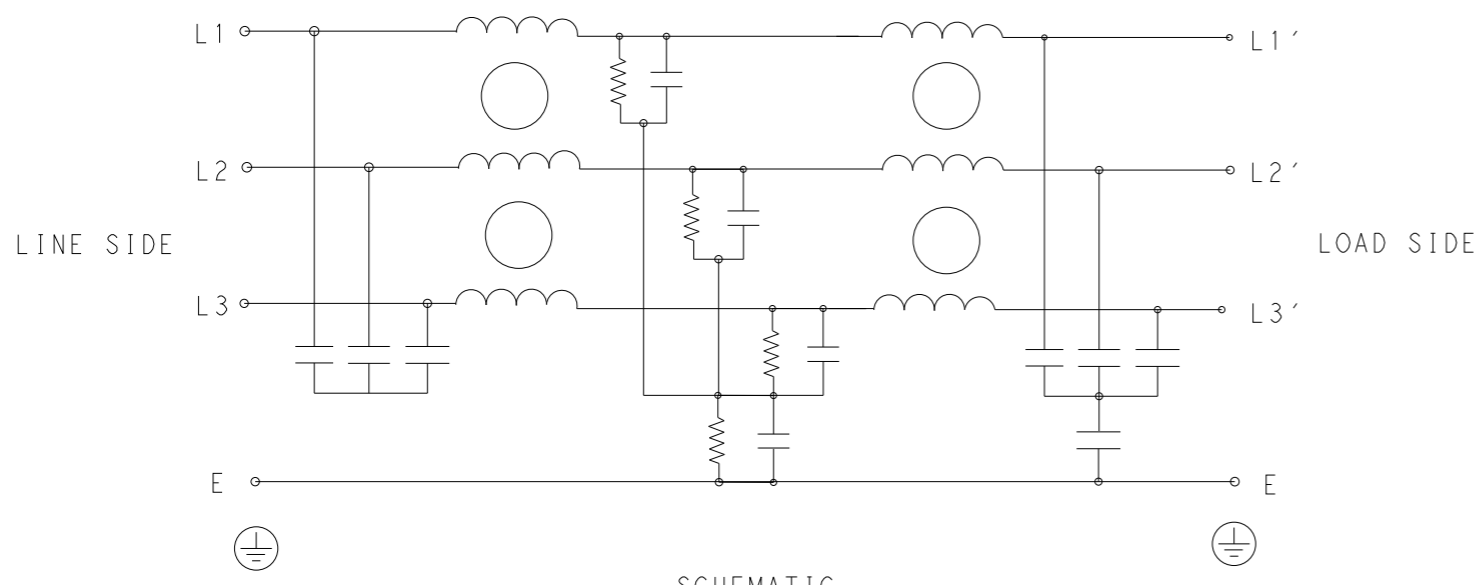


| P | LTR | DESCRIPTION     | DATE      | DWN | APVD |
|---|-----|-----------------|-----------|-----|------|
|   | A   | INITIAL RELEASE | 26APR2021 | SR  | CB   |
|   |     |                 |           |     |      |
|   |     |                 |           |     |      |



SCHEMATIC

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 APPROVED 42A 440V 50Hz/60Hz 40°C  
 CSA APPROVED 42A 440V 50Hz/60Hz 40°C

OPERATING SPECIFICATION

LINE CURRENT/VOLTAGE: 42A, 440VAC  
 LINE FREQUENCY: 50/60Hz

MAXIMUM LEAKAGE CURRENT: 15mA @ 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: 3mH

CAPACITANCE @ 1kHz

LINE TO GROUND, NOMINAL: 1μF  
 LINE TO LINE, NOMINAL: 1.5μF

DISCHARGE RESISTOR

L/L I.R. 3MΩ 1W  
 L/N I.R. XXX  
 L/G I.R. 680KΩ 1W  
 N/G I.R. XXX  
 IR (NO DISCHARGE RESISTOR) 20°C, 50% RH AND 100VDC, MIN: 6MΩ

RECOMMENDED RECEIVING INSPECITON HIPOT

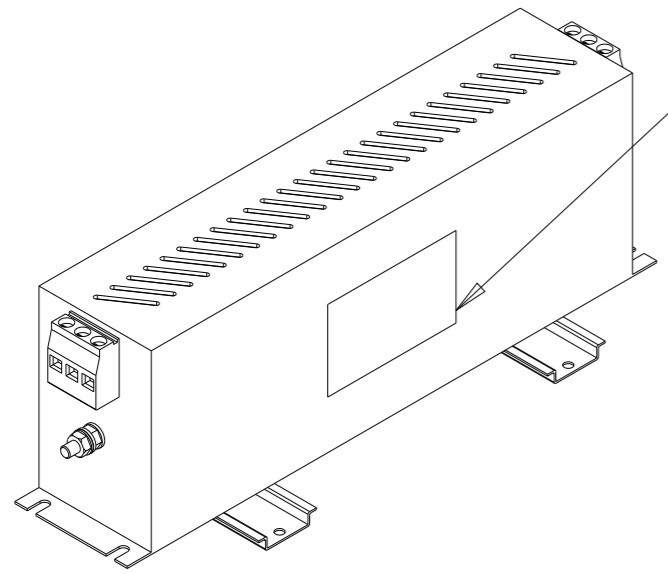
LINE TO GROUND FOR 1 MINUTE: 2632VDC  
 LINE TO LINE FOR 1 MINUTE: 1892VDC

FILTER APPROVAL

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

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  | 45   | 50   | 65   | 75  | 80 | 65 | 56 | 42 | 32 |
| DM  | 18   | 24   | 50   | 70  | 84 | 60 | 45 | 19 | 26 |



LABEL TO TE MARKING SPECIFICATION

|  |         |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
|--|---------|----------------------------|---------------------------|-----------------|-------|-------|--------|-------|---------|-------|---|--------|---|--|----------------|
| THIS DRAWING IS A CONTROLLED DOCUMENT.   |         | DWN SUPREETH R 26APR2021   |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| DIMENSIONS: mm   |         | CHK CHRIS BOLLE 26APR2021  |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:   |         | APVD CHRIS BOLLE 26APR2021 |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| <table border="1"> <tr> <td>0 PLC</td> <td>±0.5</td> </tr> <tr> <td>1 PLC</td> <td>±0.40</td> </tr> <tr> <td>2 PLC</td> <td>±0.130</td> </tr> <tr> <td>3 PLC</td> <td>±0.0500</td> </tr> <tr> <td>4 PLC</td> <td>±</td> </tr> <tr> <td>ANGLES</td> <td>±</td> </tr> </table> |         | 0 PLC                      | ±0.5                      | 1 PLC           | ±0.40 | 2 PLC | ±0.130 | 3 PLC | ±0.0500 | 4 PLC | ± | ANGLES | ± | NAME POWER LINE FILTER FOR DIN RAIL 35 INSTALLATION 42KEHD10ABSDHM | PRODUCT SPEC - |
| 0 PLC  | ±0.5    |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| 1 PLC  | ±0.40   |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| 2 PLC  | ±0.130  |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| 3 PLC  | ±0.0500 |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| 4 PLC  | ±       |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| ANGLES   | ±       |                            |                           |                 |       |       |        |       |         |       |   |        |   |  |                |
| MATERIAL -   |         | APPLICATION SPEC -         | WEIGHT -                  | RESTRICTED TO - |       |       |        |       |         |       |   |        |   |  |                |
| FINISH -   |         | CUSTOMER DRAWING           | SCALE 3:10                | SHEET 1 OF 2    |       |       |        |       |         |       |   |        |   |  |                |
|  |         |                            | DRAWING NO. C-3-1609969-6 | REV A           |       |       |        |       |         |       |   |        |   |  |                |

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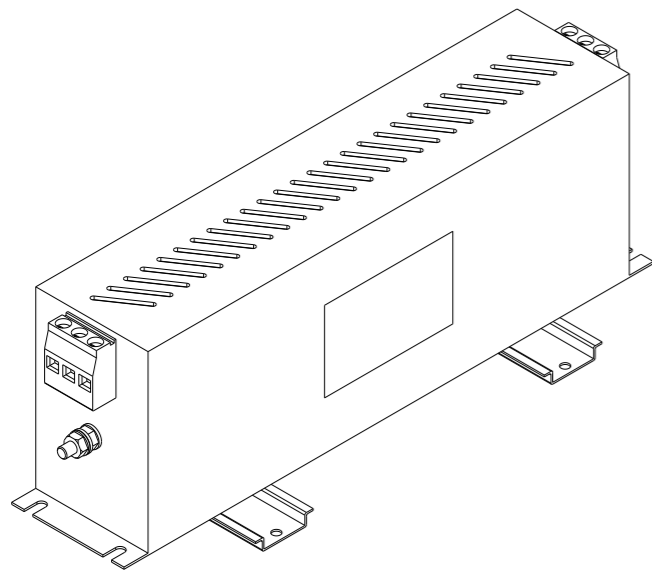
NOTE 1 GROUND CONNECTION:  
 FOR ELECTRICAL SAFETY AND FILTER PERFORMANCE  
 UNIT MUST HAVE A GOOD GROUND CONNECTION.  
 TORQUE OUTER TERMINAL SCREWS: 1.2Nm / 10.8 in.lbs  
 TORQUE GROUND NUTS: 2.5-3Nm

NOTE 2 INPUT OUTPUT CONNECTION TERMINAL  
 AWG SIZE: 26-8 AWG  
 WIRE SECTION: 10 mm<sup>2</sup>  
 THREADED BOLT SIZE FOR GROUND: M6

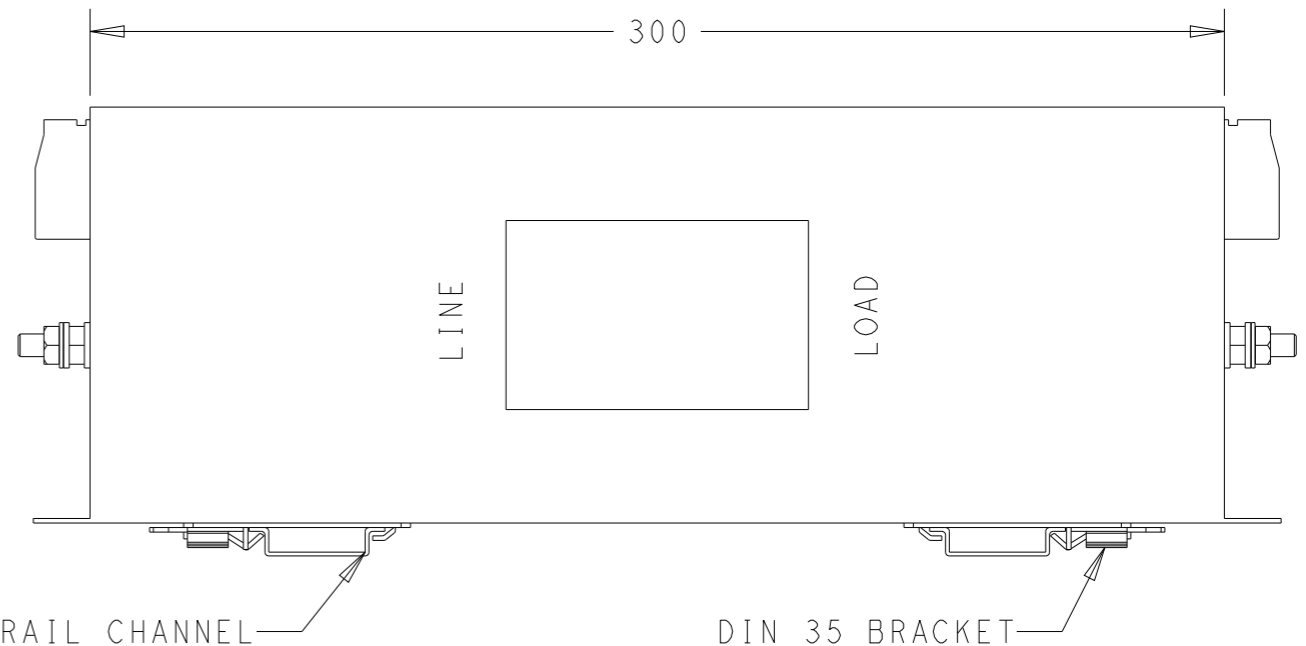
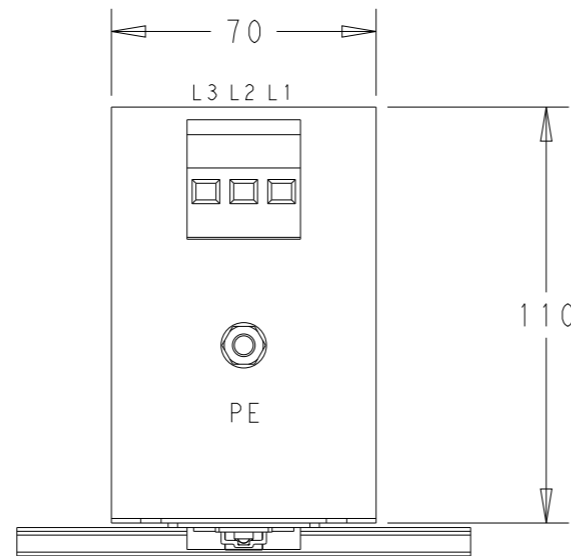
NOTE 3 SUPPLIED WITH DIN RAIL BRACKET.

NOTE 4 DRAWING SHOWS DIN RAIL FOR REFERENCE ONLY.

| REVISIONS |     |             |      |     |      |
|-----------|-----|-------------|------|-----|------|
| P         | LTR | DESCRIPTION | DATE | DWN | APVD |
|           |     | SEE SHEET 1 |      |     |      |
|           |     |             |      |     |      |
|           |     |             |      |     |      |

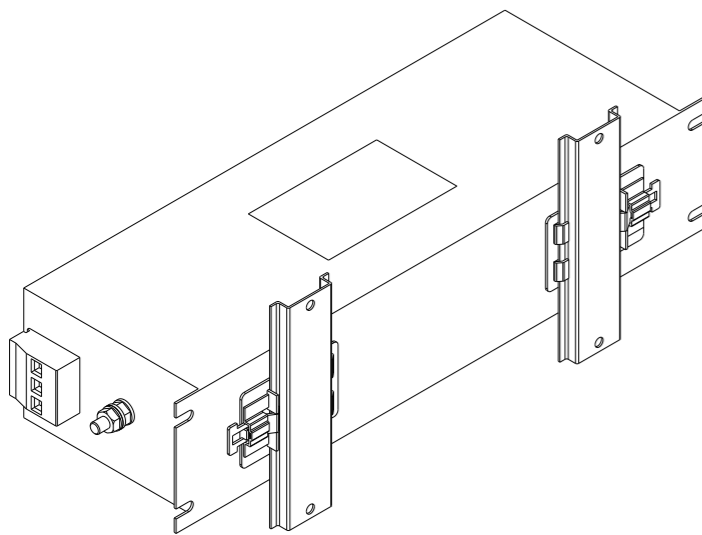
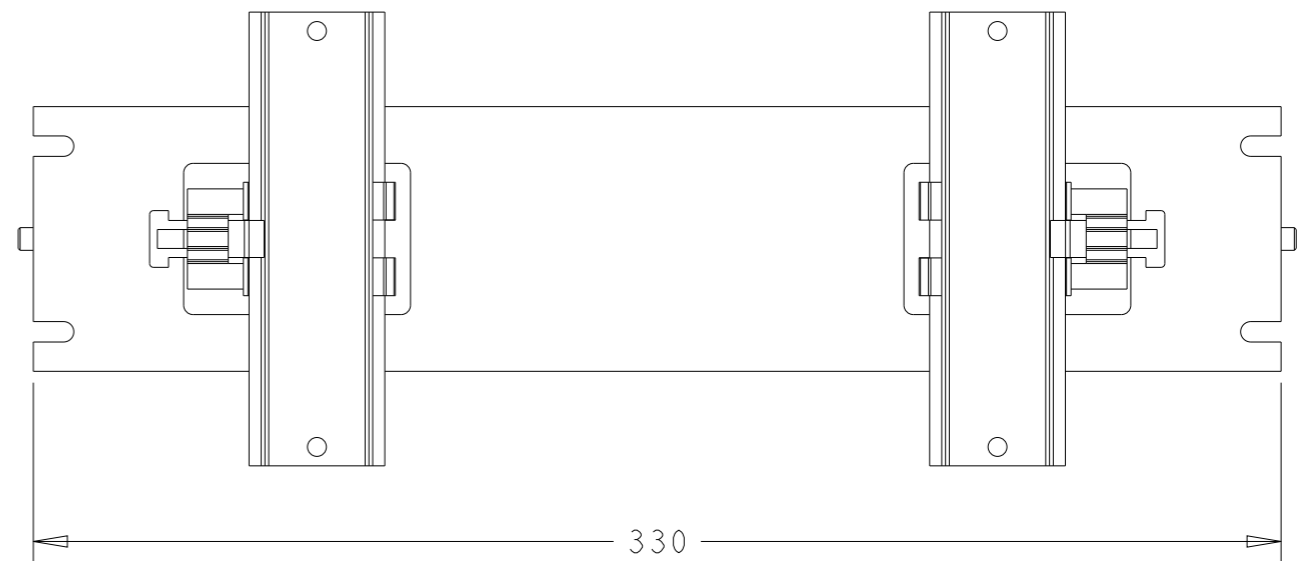


FRONT SIDE




DIN RAIL CHANNEL

DIN 35 BRACKET



REAR SIDE

|  |         |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
|--|---------|----------------------------------|---|-------------|-----------------------------|-------|--------|-------|---------|-------|---|--------|---|-------------------|--------------------|--|--|
| THIS DRAWING IS A CONTROLLED DOCUMENT.   |         | DWN<br>SUPREETH R<br>26APR2021   |  TE Connectivity |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| DIMENSIONS:<br>mm  |         | CHK<br>CHRIS BOLLE<br>26APR2021  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| TOLERANCES UNLESS OTHERWISE SPECIFIED:   |         | APVD<br>CHRIS BOLLE<br>26APR2021 | NAME<br>POWER LINE FILTER FOR<br>DIN RAIL 35 INSTALLATION<br>42KEHD10ABSDHM                           |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| <table border="0"> <tr> <td>0 PLC</td> <td>±0.5</td> </tr> <tr> <td>1 PLC</td> <td>±0.40</td> </tr> <tr> <td>2 PLC</td> <td>±0.130</td> </tr> <tr> <td>3 PLC</td> <td>±0.0500</td> </tr> <tr> <td>4 PLC</td> <td>±</td> </tr> <tr> <td>ANGLES</td> <td>±</td> </tr> </table> |         | 0 PLC                            | ±0.5  | 1 PLC       | ±0.40                       | 2 PLC | ±0.130 | 3 PLC | ±0.0500 | 4 PLC | ± | ANGLES | ± | PRODUCT SPEC<br>- | RESTRICTED TO<br>- |  |  |
| 0 PLC  | ±0.5    |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| 1 PLC  | ±0.40   |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| 2 PLC  | ±0.130  |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| 3 PLC  | ±0.0500 |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| 4 PLC  | ±       |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| ANGLES   | ±       |                                  |   |             |                             |       |        |       |         |       |   |        |   |                   |                    |  |  |
| MATERIAL<br>-  |         | FINISH<br>-                      | APPLICATION SPEC<br>-   | WEIGHT<br>- | SIZE<br>A3                  |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | CAGE CODE<br>300779         |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | DRAWING NO<br>C-3-1609969-6 |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | SCALE<br>1:2                |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | SHEET<br>2 OF 2             |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | REV<br>A                    |       |        |       |         |       |   |        |   |                   |                    |  |  |
|  |         |                                  |   |             | CUSTOMER DRAWING            |       |        |       |         |       |   |        |   |                   |                    |  |  |