

**CUSTOMER DRAWING**

**CATALOG # 180BCF6**

| ECN#      | APPRVD | DATE    |
|-----------|--------|---------|
| 15-011624 | TAM    | 08DEC15 |

**SAFETY ORGANIZATIONS**

THIS FILTER HAS BEEN FORMALLY RECOGNIZED, CERTIFIED OR APPROVED BY THE LISTED AGENCY. THEREFORE, ALL TEST/REQUIREMENTS SPECIFIED IN THE LATEST REVISION OF THE FOLLOWING AGENCY STANDARDS HAVE BEEN MET:

- UL RECOGNIZED: UL 1283
- CSA CERTIFIED: CSA C22.2 No. 8
- VDE APPROVED: EN 60939-2

**OPERATING SPECIFICATIONS**

LINE CURRENT/VOLTAGE: 180 AMP 277 VAC LINE TO GROUND  
180 AMP 480 VAC PHASE TO PHASE

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 30mA @ 277VAC 50 HZ

OPERATING AMBIENT TEMP. RANGE: -10°C TO +50°C @ RATED CURRENT, I<sub>r</sub>.

IN AN AMBIENT, T<sub>a</sub>, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I<sub>o</sub>, IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{100 - T_a}{50}}$$

**RELIABILITY SPECIFICATIONS:**

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 50°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR 8 SECONDS

**TEST SPECIFICATIONS:**

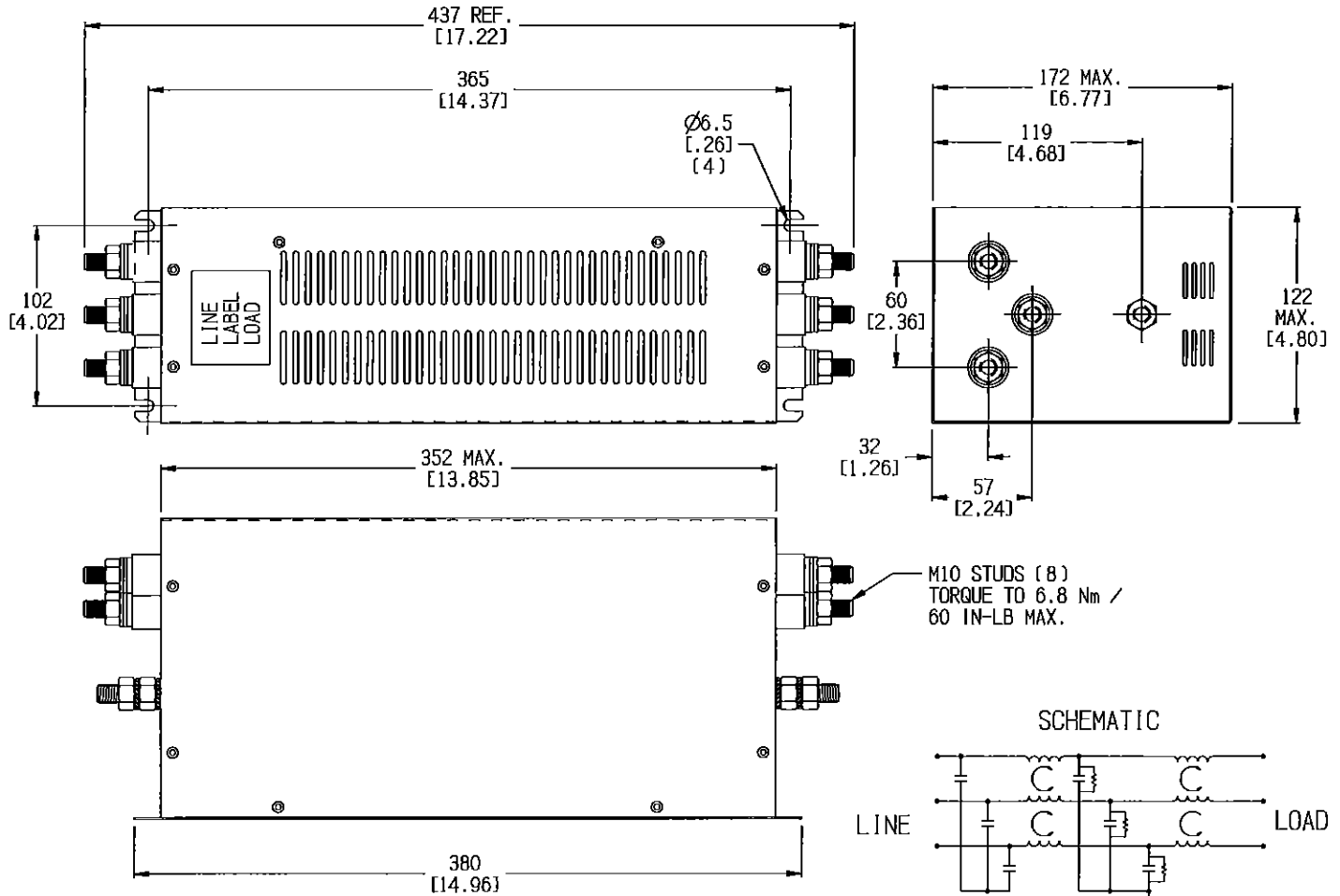
INDUCTANCE: .34 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 2.17 μF±20%  
LINE TO LINE: 6.65 μF±20%  
DISCHARGE RESISTOR: 660K Ω  
NO DISCHARGE RESISTOR: 6000MΩ (MIN.) 100VDC, 20°C AND 50% RH@

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

LINE TO GROUND: 1850 VDC FOR 1 MINUTE  
LINE TO LINE: 1850 VDC FOR 1 MINUTE

**FILTER APPROVAL:**

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



NOTES:  
1.) INSULATED TERMINALS ARE RECOMMENDED FOR WIRING TO THE FILTER

|   |     |       |         |                 |         |      |     |     |     |     |   |    |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
|---|-----|-------|---------|-----------------|---------|------|-----|-----|-----|-----|---|----|--|--|--|--|--------|-----|-------|---------|-----------------|---------|------|---|----------|----|-------|----|
| 50 Ω - 50 Ω (TYPICAL) INSERTION LOSS  |     |       |         |                 |         |      |     |     |     |     | PARTS SHALL COMPLY WITH TYCO ELECTRONICS 136-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES   |    |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
| FREQUENCY<br>Hz   | .01 | .03   | .05     | .10             | .15     | .30  | .50 | 1.0 | 3.0 | 5.0 | 10  | 30 | <p>TE Connectivity</p> <p><b>CUSTOMER DRAWING</b></p> <p>TE PART NO.: 3-1609091-3</p> <table border="1"> <tr> <td>SCALE:</td> <td>NTS</td> <td>DATE:</td> <td>30DEC15</td> <td>DRAWING NUMBER:</td> <td rowspan="2">180BCF6</td> <td>REV.</td> <td rowspan="2">A</td> </tr> <tr> <td>REV. BY:</td> <td>HS</td> <td>DATE:</td> <td>HS</td> </tr> </table> |  |  |  | SCALE: | NTS | DATE: | 30DEC15 | DRAWING NUMBER: | 180BCF6 | REV. | A | REV. BY: | HS | DATE: | HS |
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| REV. BY:  | HS  | DATE: | HS      |                 |         |      |     |     |     |     |   |    |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
| COMMON<br>dB  | 11  | 27    | 36      | 49              | 57      | 72   | 77  | 61  | 47  | 40  | 29  | 15 |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
| DIFF.<br>dB   | 27  | 37    | 40      | 42              | 50      | 73   | 73  | 60  | 50  | 47  | 42  | 30 |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
| <p>THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO TYCO ELECTRONICS CORPORATION AND ITS WORLDWIDE SUBSIDIARIES AND AFFILIATES. IT MAY NOT BE DISCLOSED TO ANYONE OTHER THAN TYCO ELECTRONICS PERSONNEL, WITHOUT WRITTEN AUTHORIZATION FROM TYCO ELECTRONICS CORPORATION. (www.TE.com)</p> |     |       |         |                 |         |      |     |     |     |     | <p>UNLESS OTHERWISE SPECIFIED TOLERANCE TO BE ±0.64 [±0.025] MATERIAL &amp; FINISH: AS SUPPLIED DIMENSIONS IN MM [INCHES]</p> <p>NOTES:</p> |    |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |
| <p>SHEET SIZE: THRO ANGLE PROJECTION</p>  |     |       |         |                 |         |      |     |     |     |     | <p>180BCF6-A.cld</p>  |    |  |  |  |  |        |     |       |         |                 |         |      |   |          |    |       |    |