

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: 30 AMP/40°C, 120/250 VAC, 50-60Hz

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT, EACH LINE TO GROUND:
 2µA @ 120V 60Hz
 5µA @ 250V 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT, I_r.

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 95% RH.
 CURRENT OVERLOAD TEST: 6 TIMES I_r FOR 8 SECONDS

TEST SPECIFICATIONS:

INDUCTANCE: 0.9 mH NOMINAL
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)

LINE TO LINE: 0.74 µF±20%
 DISCHARGE RESISTOR: 470K Ω
 L/G AND L/L I.R.
 NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

RECOMMENDED RECEIVING INSPECTION HIPOT:

LINE TO GROUND: 1500 VAC FOR 1 MINUTE
 LINE TO LINE: 1450 VDC FOR 1 MINUTE

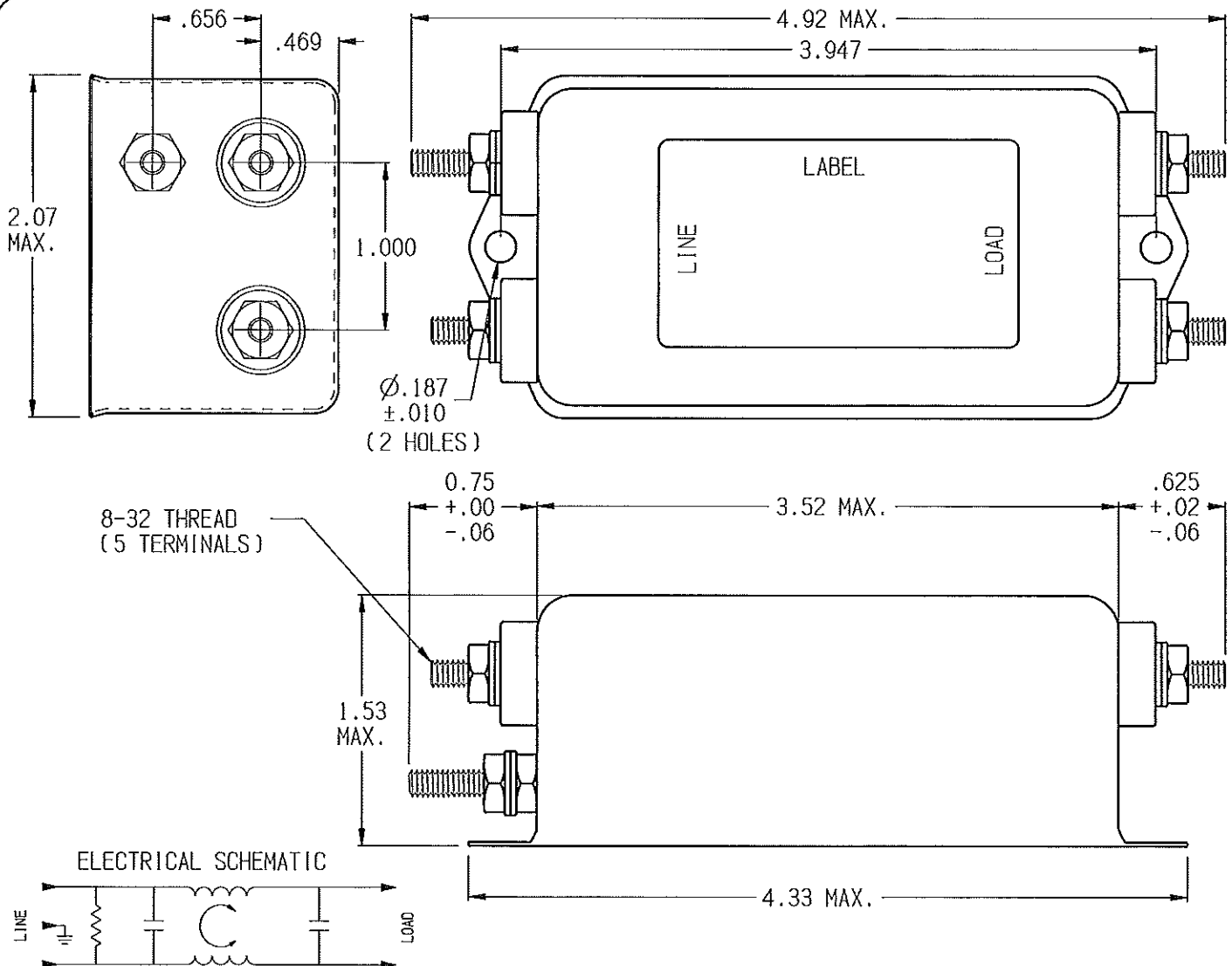
FILTER APPROVAL:

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

CUSTOMER DRAWING

CATALOG # 30EHZ6

| ECN# | APPRVD | DATE |
|-----------|--------|------|
| 10-023669 | PJD | B |



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

| FREQUENCY MHz | .01 | .03 | .05 | .1 | .15 | .5 | 1.0 | 2.0 | 5.0 | 10.0 | 20.0 | 30.0 |
|------------------|-----|-----|-----|----|-----|----|-----|-----|-----|------|------|------|
| COMPLN dB | - | 3 | 5 | 11 | 14 | 27 | 30 | 24 | 20 | 17 | 13 | 14 |
| DIFF. dB | - | - | - | 13 | 14 | 47 | 67 | 80 | 76 | 70 | 60 | 58 |

SHEET SIZE: **A** THIRD ANGLE PROJECTION

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PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED
 TOLERANCE TO BE ±0.025
 MATERIAL & FINISH: AS SUPPLIED

NOTES:

TE TE Connectivity

POWER LINE FILTER

TYCO ELECTRONICS PART NO. 3-1609037-3

| | | | |
|--------------|---------------|------------------------|--------|
| SCALE: 1:1 | DATE: 31AUG10 | DRAWING NUMBER: 30EHZ6 | REV. B |
| DRW. BY: LJD | ORIG: PJD | | |

30EHZ6-B.cxd