

**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<sub>r</sub>.

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 95% RH.  
 CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> 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

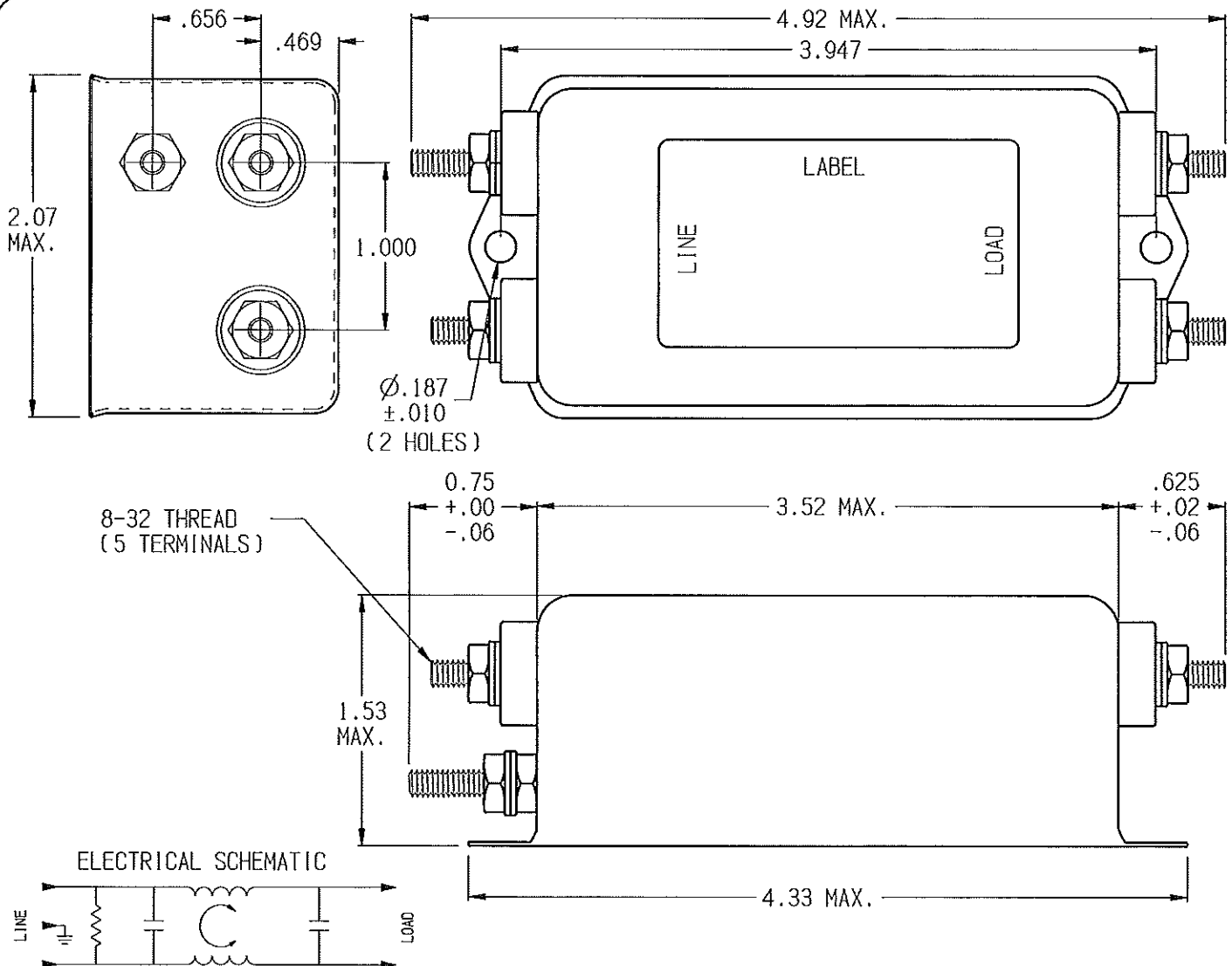
**FILTER APPROVAL:**

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



8-32 THREAD (5 TERMINALS)

**ELECTRICAL SCHEMATIC**



**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

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:



**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		



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