

6EQ8

EC #	APPR.	DDMMYY	REV.
14-015108	TAM	25OCT14	H

**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: 6 AMP, 120/250 VAC  
 CSA & VDE: 6 AMP/40°C, 250 VAC

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:

$$I_o = I_r \sqrt{\frac{100 - T_a}{60}}$$

LINE CURRENT/VOLTAGE: 6 AMP, 120/250 VAC  
 UL: 6 AMP/25°C, 120/250 VAC

OPERATING AMBIENT TEMP. RANGE: -10°C TO +25°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:

$$I_o = I_r \sqrt{\frac{100 - T_a}{75}}$$

LINE FREQUENCY: 50-60Hz

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

**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

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

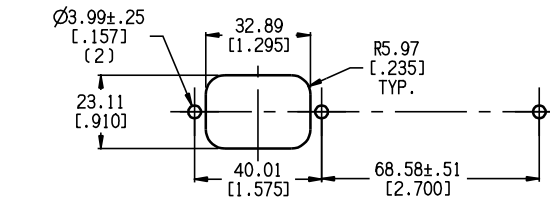
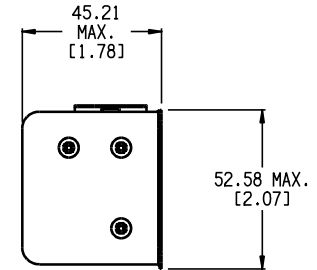
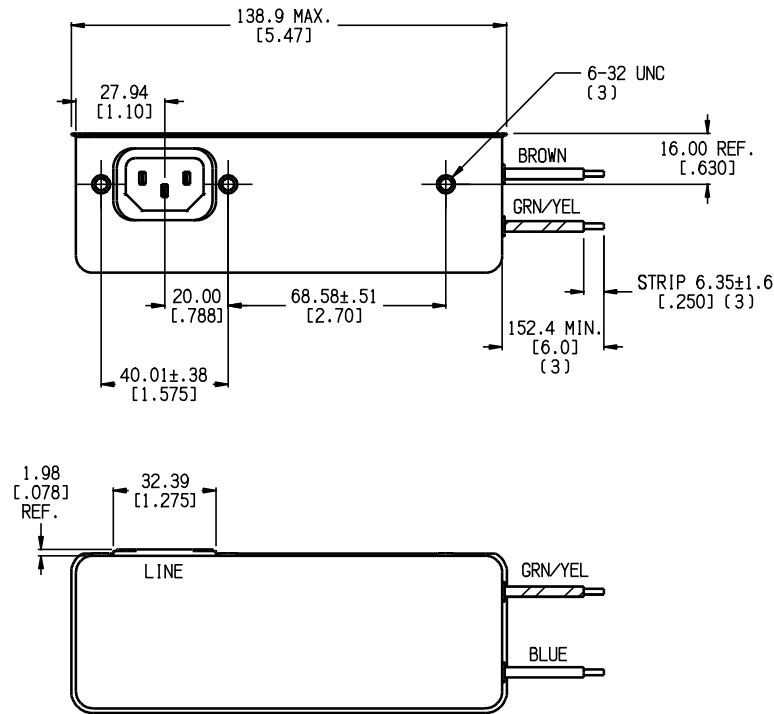
LINE TO GROUND: 1500 VAC FOR 1 MINUTE  
 LINE TO LINE: 1450 VDC FOR 1 MINUTE

**FILTER APPROVAL:**

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


**TEST SPECIFICATIONS:**

INDUCTANCE: 48.8 mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: .008 µF ±20%  
 LINE TO LINE: 1.97 µF ±20%  
 DISCHARGE RESISTOR: 165 KΩ  
 L/G AND L/L I.R.  
 NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC, 20°C AND 50% RH



PANEL CUTOUT TOLERANCE: ±0.13



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS											PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES					
FREQUENCY MHz	.01	.015	.02	.05	.15	.5	2	5	7	10	20	30	UNLESS OTHERWISE SPECIFIED TOLERANCE TO BE ±0.63 MATERIAL & FINISH: AS SUPPLIED	 TE Connectivity		
CDMPEN dB	26	28	31	20	68	72	72	65	55	55	50	45			NOTES:	<b>CUSTOMER DRAWING</b>
DIFF. dB	6	4	10	43	70	75	75	65	52	55	55	55				
DRY SIZE	THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO TYCO ELECTRONICS CORPORATION AND ITS VOLUNTARY SUBSIDIARIES AND AFFILIATES. IT MAY NOT BE DISCLOSED TO ANYONE OTHER THAN TYCO ELECTRONICS PERSONNEL, WITHOUT WRITTEN AUTHORIZATION FROM TYCO ELECTRONICS CORPORATION.											DATE: 01DCT93	DRAWING NUMBER: 6EQ8	REV. F		

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