

**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: 55 AMP 277 VAC LINE TO GROUND  
 55 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: 1.80 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@

**CUSTOMER DRAWING**

CATALOG # 55BCF6

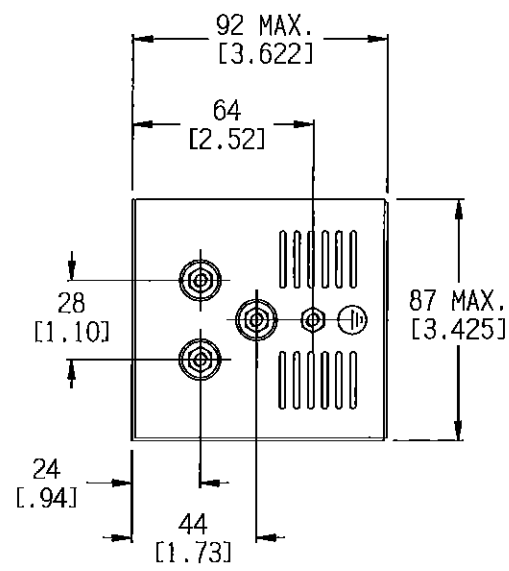
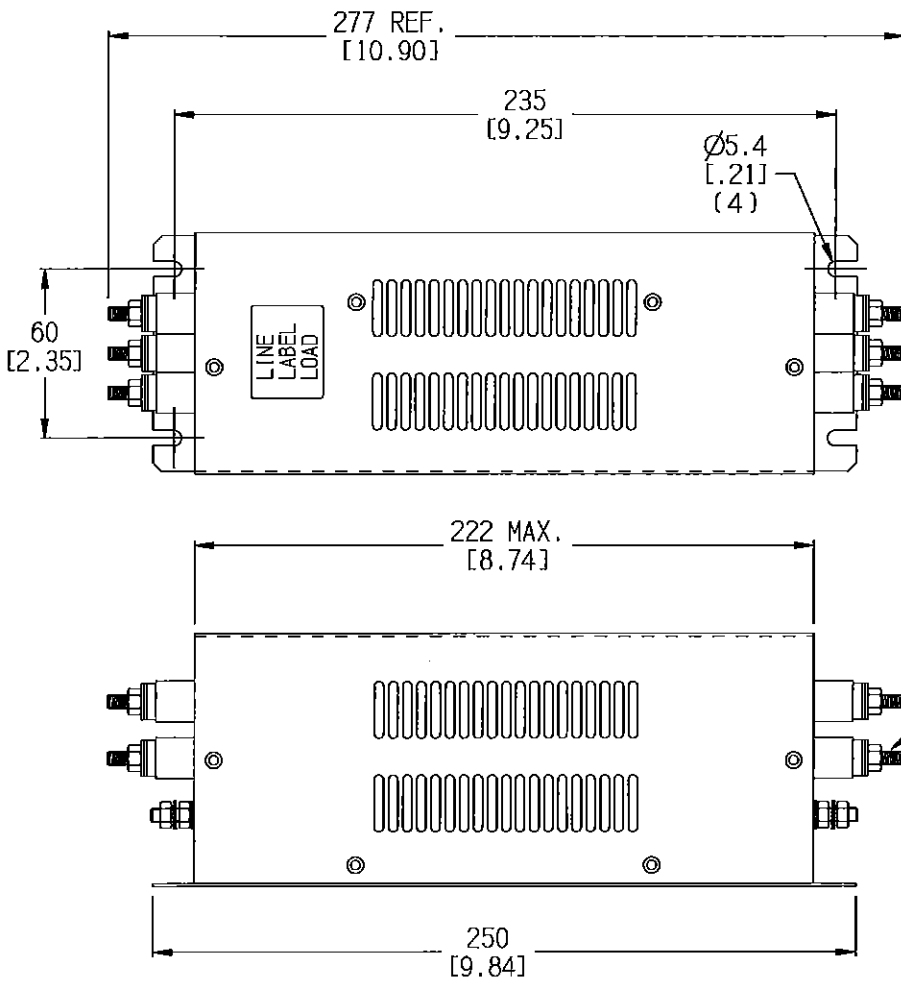
ECN#	APPRVD	DATE
15-011624	TAM	08DEC15

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

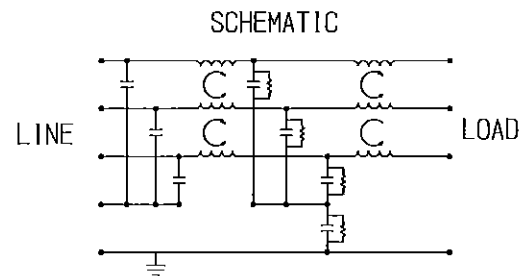
LINE TO GROUND: 1850 VDC FOR 1 MINUTE  
 LINE TO LINE: 1850 VDC FOR 1 MINUTE

**FILTER APPROVAL:**

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



M5 STUDS (8)  
 TORQUE TO 2.6 Nm / 23 IN-LB MAX.



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

50 Ω - 50 Ω (TYPICAL) INSERTION LOSS	
FREQUENCY kHz	.01 .03 .05 .10 .15 .30 .50 1.0 3.0 5.0 10 30
COMMON dB	16 35 44 58 66 87 87 67 47 38 26 12
DIFF. dB	27 35 35 51 68 87 83 71 61 58 54 31

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES  
 UNLESS OTHERWISE SPECIFIED  
 TOLERANCE TO BE ±0.64 [±0.025]  
 MATERIAL & FINISH: AS SUPPLIED  
 DIMENSIONS IN MM [INCHES]

NOTES:

**TE** TE Connectivity

**CUSTOMER DRAWING**

TE PART NO.: 2-1609091-9

SHEET SIZE	THRU ANGLE PROJECTION	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)	SCALE:	DATE:	DRAWING NUMBER:	REV.
A	⊲ ⊙		NTS	30DEC15	55BCF6	A
DESIGN BY:		DATE:		REV.:		
HS		HS		HS		

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