

CUSTOMER DRAWING

CATALOG # 3ERK1

EC #	APPRVD.	DATE
08-028933	PJD	19NOV08

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 22.2, # 0,0,4,8
VDE APPROVED: EN 60939-2

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 3 AMP/40°C, 120/250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,
EACH LINE TO GROUND:
0.16 mA @ 120V 60Hz
0.28 mA @ 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:
$$I_o = I_r \sqrt{\frac{100 - T_a}{60}}$$

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:

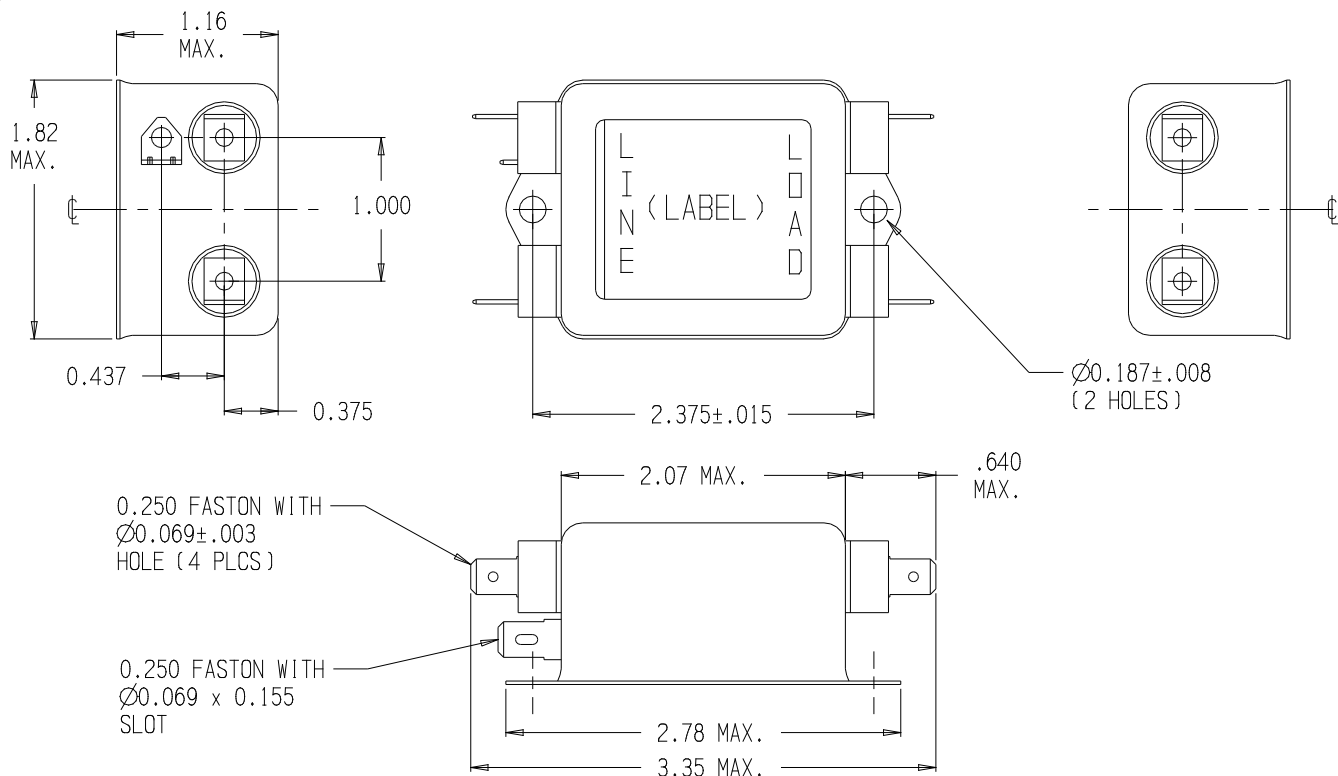
INDUCTANCE: 7.0 mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.0044 μ F ±20%
LINE TO LINE: 0.741 μ F ±20%
DISCHARGE RESISTOR: 470K Ω
L/G AND L/L I.R.
NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC,
20°C AND 50% RH

RECOMMENDED RECEIVING INSPECTION HIPOT:

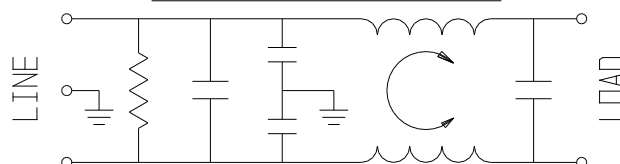
LINE TO GROUND: 2250 VDC FOR 1 MINUTE
LINE TO LINE: 1450 VDC FOR 1 MINUTE

FILTER APPROVAL:

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



ELECTRICAL SCHEMATIC



SHALL COMPLY WITH TYCO ELECTRONICS 230-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.05	.10	.15	.50	1.0	2.0	5.0	10	20	30
COMMON dB	21	27	30	43	49	50	50	48	50	49
DIFF. dB	9	20	35	67	78	78	72	66	61	60

THIRD ANGLE
PROJECTION



UNLESS OTHERWISE SPECIFIED,
TOLERANCE TO BE ±.025
MATERIAL & FINISH: AS SUPPLIED

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HARRISBURG, PENNSYLVANIA USA



Tyco Electronics

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POWER LINE FILTER

TYCO ELECTRONICS PART NO.		1-1809036-7	
SCALE:	NTS	DATE:	01FEB08
DRW. BY:	PJD	ORIG:	PJD
CATALOG NO.		REV.	
3ERK1		4	