

## 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: 16 AMP, 120/250 VAC,  
16 AMP/40°C, 250 VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.76 mA @ 120V 60Hz  
1.27 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 +100°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES  $I_r$  FOR  
8 SECONDS

## TEST SPECIFICATIONS:

INDUCTANCE: 1.2 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.02  $\mu$ F ±20%  
LINE TO LINE: 0.475  $\mu$ F ±20%  
DISCHARGE RESISTOR: 680K  $\Omega$   
L/G AND L/L I.R.  
NO DISCHARGE RESISTOR: 6000M $\Omega$  (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 # 16WGB7

| ECN #     | APPRD.             | DATE    |
|-----------|--------------------|---------|
| 09-020709 | <i>[Signature]</i> | 09SEP09 |

ELECTRICALLY ISOLATED ALUMINUM  
MOUNTING STUD M8 X 1.25 THREAD

.386

2.4  
MAX.

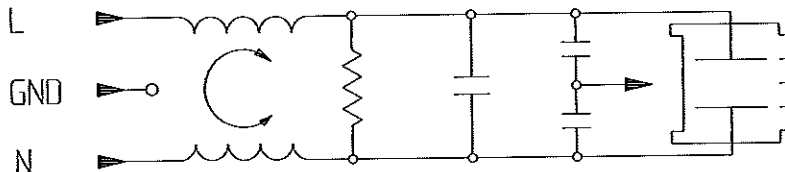
LABEL

.250 x 0.032 PREINSULATED ULTRA FAST TERMINAL  
[ACCEPTS T.E. P/N 3-350819-2 (#16 TO #14 AWG WIRE)]  
APPLICATION SPECIFICATION 114-2123. (3 PLACES)

.352  
MIN.  
(3)

UNKEYED RAST 5 HEADER INTERFACE [ACCEPTS EITHER  
STANDARD POWER TIMER (HOUSING 5-928247-2 WITH  
CONTACT 964203-1 (#18 TO #14 AWG WIRE)) OR  
RAST 5 POSITIVE LOCK MK III (HOUSING 521204-1  
WITH CONTACT 1217095-1 (#16 TO #12 AWG WIRE))].

Ø1.496



## 50 $\Omega$ - 50 $\Omega$ (MINIMUM) INSERTION LOSS

| FREQUENCY<br>MHz | .05 | .1 | .15 | .5 | 1  | 2  | 5  | 10 | 20 | 30 | / | / |
|------------------|-----|----|-----|----|----|----|----|----|----|----|---|---|
| COMMEN<br>dB     | 11  | 16 | 21  | 33 | 39 | 44 | 53 | 55 | 37 | 30 | / | / |
| DIFF.<br>dB      | 14  | 19 | 22  | 33 | 41 | 51 | 50 | 45 | 52 | 45 | / | / |

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

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

NOTES:

**Tyco Electronics**

DORCON PRODUCTS, 620 S. BUTTERFIELD RD., HUNDELEIN, IL 60050

**POWER LINE FILTER**

TYCO ELECTRONICS PART NO. 3-1609090-9

| SCALE: | DATE:   | DRAWING NUMBER: | REV. |
|--------|---------|-----------------|------|
| NTS    | 23MAR07 | 16WGB7          | 6    |



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CVM  
AVAILABLE ☒ YES ☐ NO

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