

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: 0.5 mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 0.02 μ F ±20%
LINE TO LINE: 0.475 μ F ±20%
DISCHARGE RESISTOR: 680K 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: 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 # 16WGA7

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

ELECTRICALLY ISOLATED ALUMINUM
MOUNTING STUD M8 X 1.25 THREAD

.386

2.4
MAX.

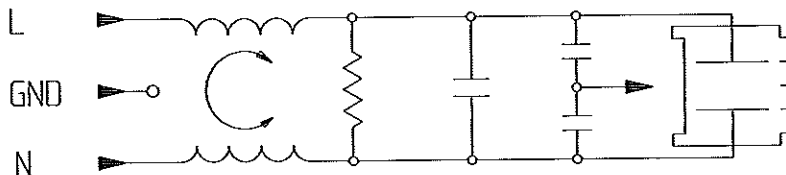
LABEL

.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))).

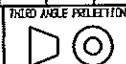
Ø1.496



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.05	.1	.15	.5	1	2	5	10	20	30	/	/
COMMON dB	3	10	14	33	41	47	54	50	37	30	/	/
DIFF. dB	14	19	22	33	41	51	47	42	48	50	/	/

SHEET SIZE
A



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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:

CVM
AVAILABLE

YES NO

GrKeyCresor Directorles@D

16WGA705.cxd



Tyco Electronics

CORPORATION, 620 S. BUTTERFIELD RD., MUNDLEIN IL 60060

POWER LINE FILTER

TYCO ELECTRONICS PART NO. 3-1609090-8

SCALE:	DATE:	DRAWING NUMBER:	REV.
NTS	23MAR07	16WGA7	5
DRW. BY:	PJD	PJD	