

CUSTOMER DRAWING

CATALOG # 42BCF6

ECN#	APPRVD	DATE
15-011624	TAM	08DEC15

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: 42 AMP 277 VAC LINE TO GROUND
42 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_r.

IN AN AMBIENT, T_a, HIGHER THAN 50°C, THE MAXIMUM OPERATING CURRENT, I_o, 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_r FOR 8 SECONDS

TEST SPECIFICATIONS:

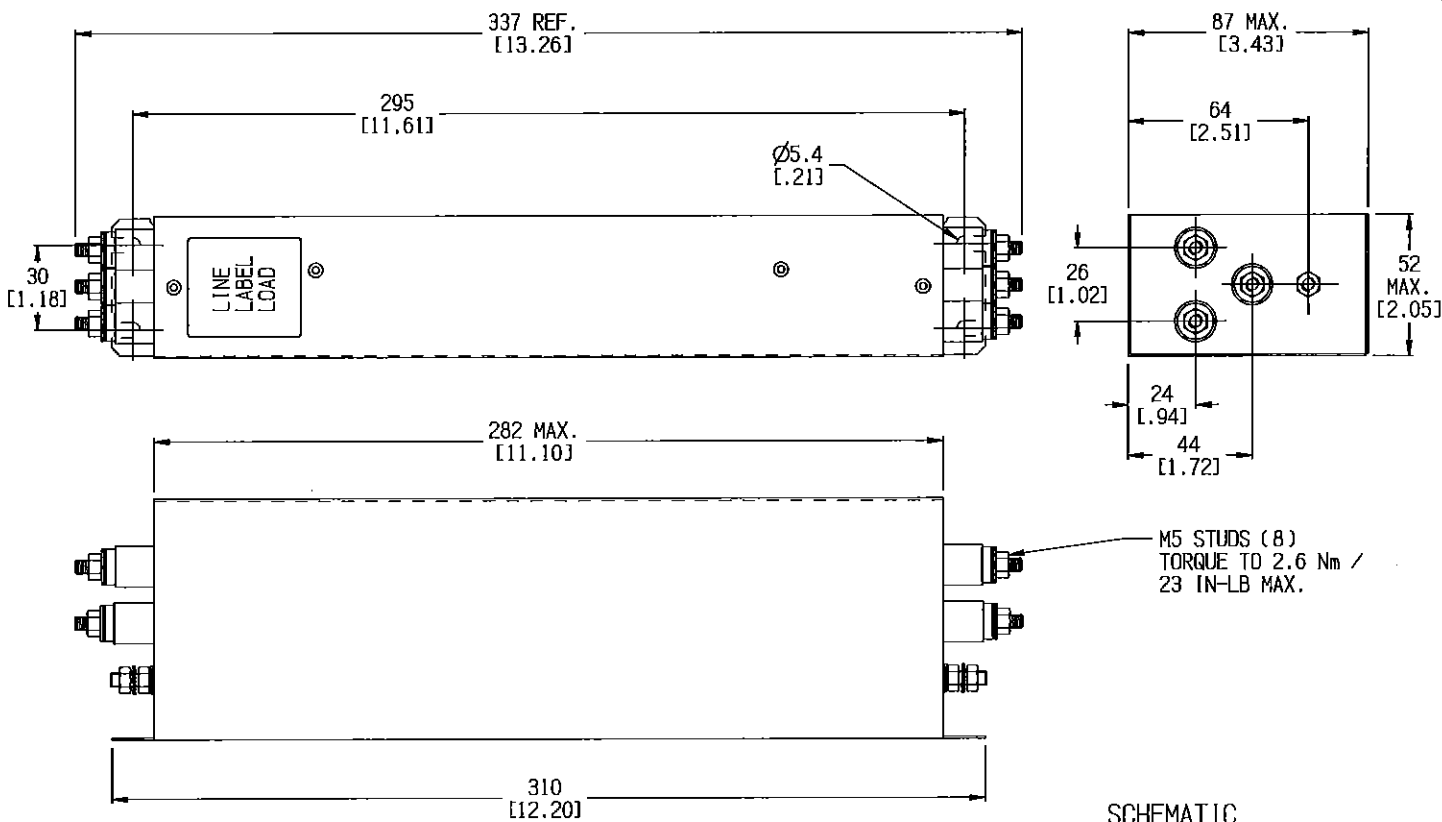
INDUCTANCE: 1.19 mH NOMINAL
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
LINE TO GROUND: 2.17 μF±20%
LINE TO LINE: 6.60 μF±20%
DISCHARGE RESISTOR: 660K Ω
NO DISCHARGE RESISTOR: 6000Ω (MIN.) 100VDC, 20°C AND 50% RH@

RECOMMENDED RECEIVING INSPECTION HIPOT:

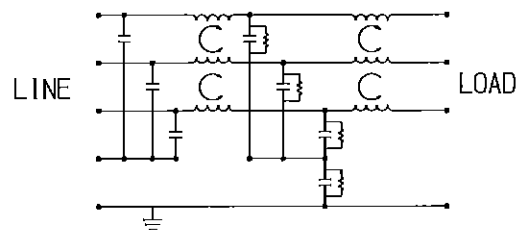
LINE TO GROUND: 1850 VDC FOR 1 MINUTE
LINE TO LINE: 1850 VDC FOR 1 MINUTE

FILTER APPROVAL:

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



SCHMATIC



50 Ω - 50 Ω (TYPICAL) INSERTION LOSS

FREQUENCY #Hz	.01	.03	.05	.10	.15	.30	.50	1.0	3.0	5.0	10	30
COMMON dB	12	30	40	52	61	79	90	72	54	47	35	18
DIFF. dB	13	35	36	50	67	88	82	69	59	55	50	40

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:



CUSTOMER DRAWING

TE PART NO.: 2-1609091-8			
SCALE: NTS	DATE: 30DEC15	DRAWING NUMBER: 42BCF6	REV. A
DRW. BY: HS	TRTG: HS		



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