

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, #8
 TUV APPROVED: EN60950

OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 30 AMP/55°C, 80 VDC

LINE FREQUENCY: DC

MAXIMUM LEAKAGE CURRENT,
 EACH LINE TO GROUND:

| | | | |
|-----|------|------|------|
| N/A | mA @ | 120V | 60Hz |
| N/A | mA @ | 250V | 50Hz |

OPERATING AMBIENT TEMP. RANGE: -10°C TO +55°C @ RATED CURRENT, I_r .

IN AN AMBIENT, T_a , HIGHER THAN 55°C, THE MAXIMUM OPERATING CURRENT, I_o , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{30}}$$

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: 0.70mH NOMINAL
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)
 LINE TO GROUND: 0.093 μ F ±20%
 LINE TO LINE: 2.024 μ F ±20%
 DISCHARGE RESISTOR: 0.165M Ω
 L/G AND L/L I.R.
 NO DISCHARGE RESISTOR: 6000M Ω (MIN.) @ 100VDC, 20°C AND 50% RH

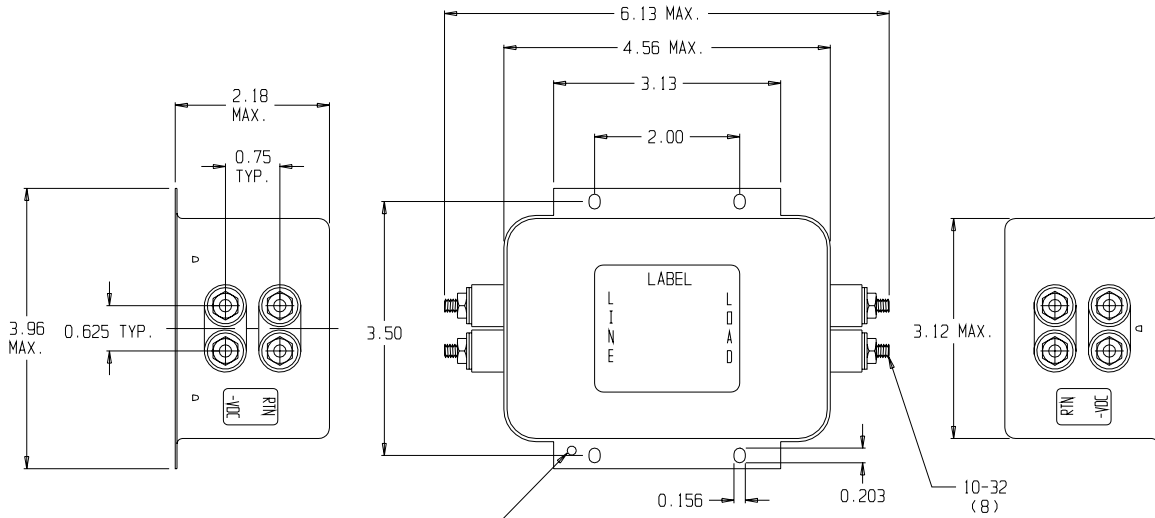
RECOMMENDED RECEIVING INSPECTION HIPOT:

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

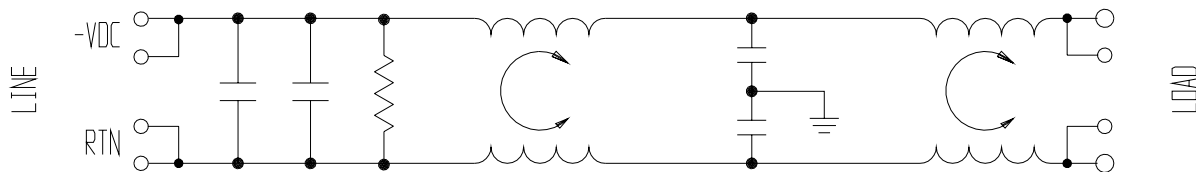
FILTER APPROVAL:

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

| CATALOG # 30DCF6 | | |
|------------------|---------|---------|
| EC# | APPRVD. | DDMMYY |
| 0631-0093-03 | | 11MAR03 |



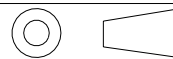
HOLE INDICATES "LINE" SIDE. MAY BE ON EITHER FLANGE.



50 Ω - 50 Ω (MINIMUM) INSERTION LOSS

| FREQUENCY MHz | .01 | .05 | 0.1 | .15 | 0.5 | 1 | 3 | 5 | 10 | 30 |
|---------------|-----|-----|-----|-----|-----|----|----|----|----|----|
| COMMON dB | | 4 | 15 | 23 | 47 | 59 | 64 | 56 | 44 | 36 |
| DIFF. dB | 7 | 22 | 28 | 31 | 32 | 59 | 56 | 51 | 41 | 28 |

THIRD ANGLE PROJECTION



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

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tyco Electronics **corcom**
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POWER LINE FILTER

| | | |
|--------------------------|--------------------|---------------|
| CAD FILE: G:\CD\30DCF603 | TYCO # 0-1609074-3 | REV. |
| SCALE: NTS | DATE: 10-30-00 | CATALOG NO. |
| DRW. BY: PJD | DRIG: PJD | 30DCF6 |
| | | 3 |