

CATALOG # 30EMC6

|       |         |        |
|-------|---------|--------|
| ECC # | APPRVD. | DATE   |
|       | KAW     | 3DEC06 |

**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
- VDE APPROVED: EN 133200

**OPERATING SPECIFICATIONS**

LINE CURRENT/VOLTAGE: 30 AMP/40°C, 120/250VAC

LINE FREQUENCY: 50-60Hz

MAXIMUM LEAKAGE CURRENT,  
EACH LINE TO GROUND: 0.73mA @ 120V, 60Hz  
1.27mA @ 250V, 50Hz

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT, I<sub>r</sub>.

IN AN AMBIENT, T<sub>0</sub>, HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT, I<sub>0</sub>, IS AS FOLLOWS:

$$I_0 = I_r \sqrt{\frac{100 - T_0}{60}}$$

**RELIABILITY SPECIFICATIONS:**

STORAGE TEMPERATURE: -40°C TO +85°C  
HUMIDITY: 21 DAYS @ 40°C 95% RH.  
CURRENT OVERLOAD TEST: 6 TIMES I<sub>r</sub> FOR 8 SECONDS

**TEST SPECIFICATIONS:**

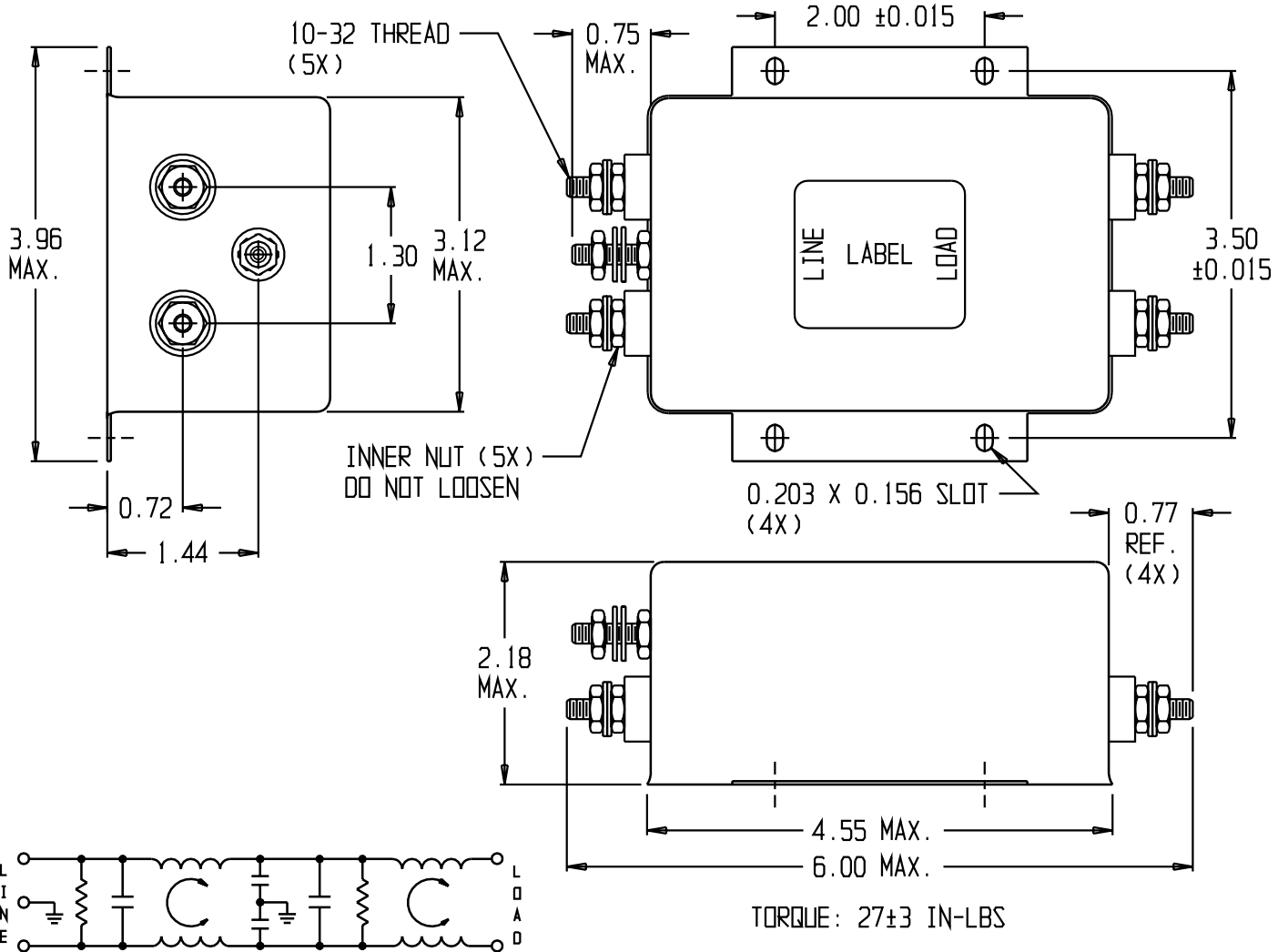
INDUCTANCE: 0.88mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.02µF ±20%  
LINE TO LINE: 4.405µF ±20%  
DISCHARGE RESISTOR: 94KΩ  
L/G AND L/L I.R.: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH  
NO DISCHARGE RESISTOR:

**RECOMMENDED RECEIVING INSPECTION HIPOT:**

LINE TO GROUND: 1500VAC OR 2250VDC FOR 1 MINUTE  
LINE TO LINE: 1450VDC 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.



50Ω - 50Ω (MINIMUM) INSERTION LOSS

| FREQUENCY MHz | 0.01 | 0.05 | 0.07 | 0.11 | 0.15 | 1.0 | 2.0 | 10 | 20 | 30 |
|---------------|------|------|------|------|------|-----|-----|----|----|----|
| COMMON dB     | 1    | 2    | 2    | 14   | 22   | 47  | 52  | 60 | 48 | 43 |
| DIFF. dB      | 11   | 17   | 18   | 14   | 40   | 62  | 53  | 30 | 28 | 26 |

THIRD ANGLE PROJECTION

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

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**CUSTOMER DRAWING 30EMC6**

TYCO: 1-6609037-6  
SCALE: NTS DATE: 24NOV03 CATALOG NO. 30EMC6 REV. A  
DRW. BY: JF ORG: KAW