

## 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 PENDING

## OPERATING SPECIFICATIONS

LINE CURRENT/VOLTAGE: 180 AMP, 277 VAC PHASE TO GROUND  
 180 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 40°C, THE MAXIMUM OPERATING CURRENT,  $I_o$ , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{35}}$$

## 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: .34 mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 2.17  $\mu$ F±20%  
 LINE TO LINE: 6.65  $\mu$ F±20%  
 DISCHARGE RESISTOR: 660 K $\Omega$   
 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: 1850 VDC FOR 1 MINUTE  
 LINE TO LINE: 1850 VDC FOR 1 MINUTE

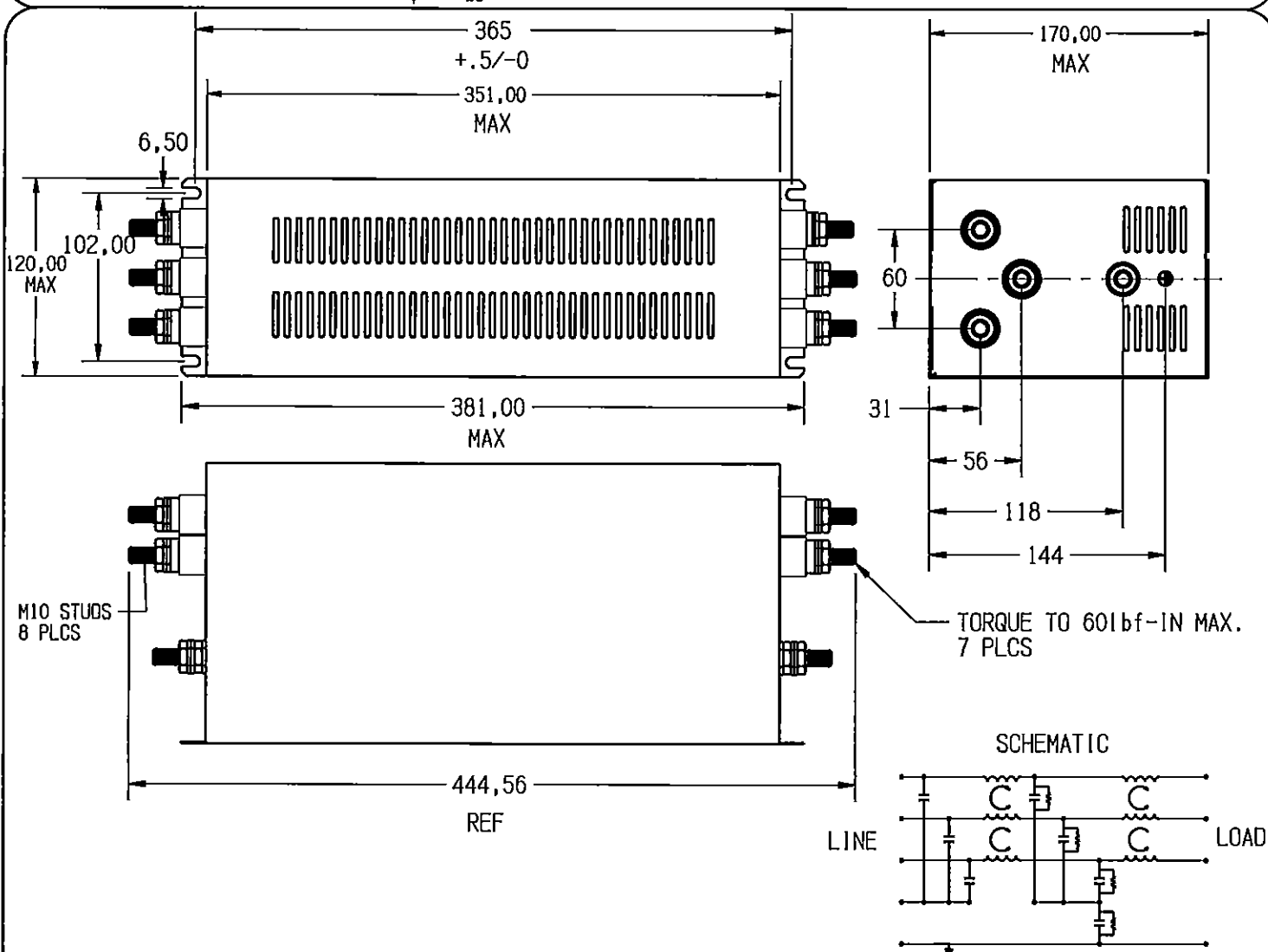
## FILTER APPROVAL:

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

## CUSTOMER DRAWING

CATALOG # 180BCF6

| ECN# | APPRVD | DATE    |
|------|--------|---------|
| /    | TAM    | 19FEB15 |



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

| FREQUENCY<br>MHz | .01 | .03 | .05 | .10 | .15 | .30 | .50 | 1.0 | 3.0 | 5.0 | 10 | 30 |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| COMMON<br>dB     | 11  | 27  | 36  | 49  | 57  | 72  | 77  | 61  | 47  | 40  | 29 | 15 |
| DIFF.<br>dB      | 27  | 37  | 40  | 42  | 50  | 73  | 73  | 60  | 50  | 47  | 42 | 30 |

PARTS SHALL COMPLY WITH TYCO ELECTRONICS 138-702 SPECIFICATION FOR HAZARDOUS SUBSTANCES

UNLESS OTHERWISE SPECIFIED  
 TOLERANCE TO BE  $\pm 0.64$   
 MATERIAL & FINISH: AS SUPPLIED  
 DIMENSIONS IN MILLIMETERS

## NOTES:

**TE** TE Connectivity

## CUSTOMER DRAWING

TE PART NO.: 3-1609091-3

| SCALE        | DATE      | REV. |
|--------------|-----------|------|
| NTS          | 30MAY12   | 2    |
| DRY. BY: TAM | ORIG: TAM |      |

180BCF6

REV.

2

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