

## 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 +40°C @ RATED CURRENT,  $I_r$ .

IN AN AMBIENT,  $T_a$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_o$ , IS AS FOLLOWS:

$$I_o = I_r \sqrt{\frac{85 - T_a}{45}}$$

## 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: 0.690mH NOMINAL  
 CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
 LINE TO GROUND: 0.099366µF ±20%  
 LINE TO LINE: 2.02515µF ±20%  
 DISCHARGE RESISTOR: 0.165MΩ  
 L/G AND L/L I.R.  
 NO DISCHARGE RESISTOR: 6000MΩ (MIN.) @ 100VDC, 20°C AND 50% RH

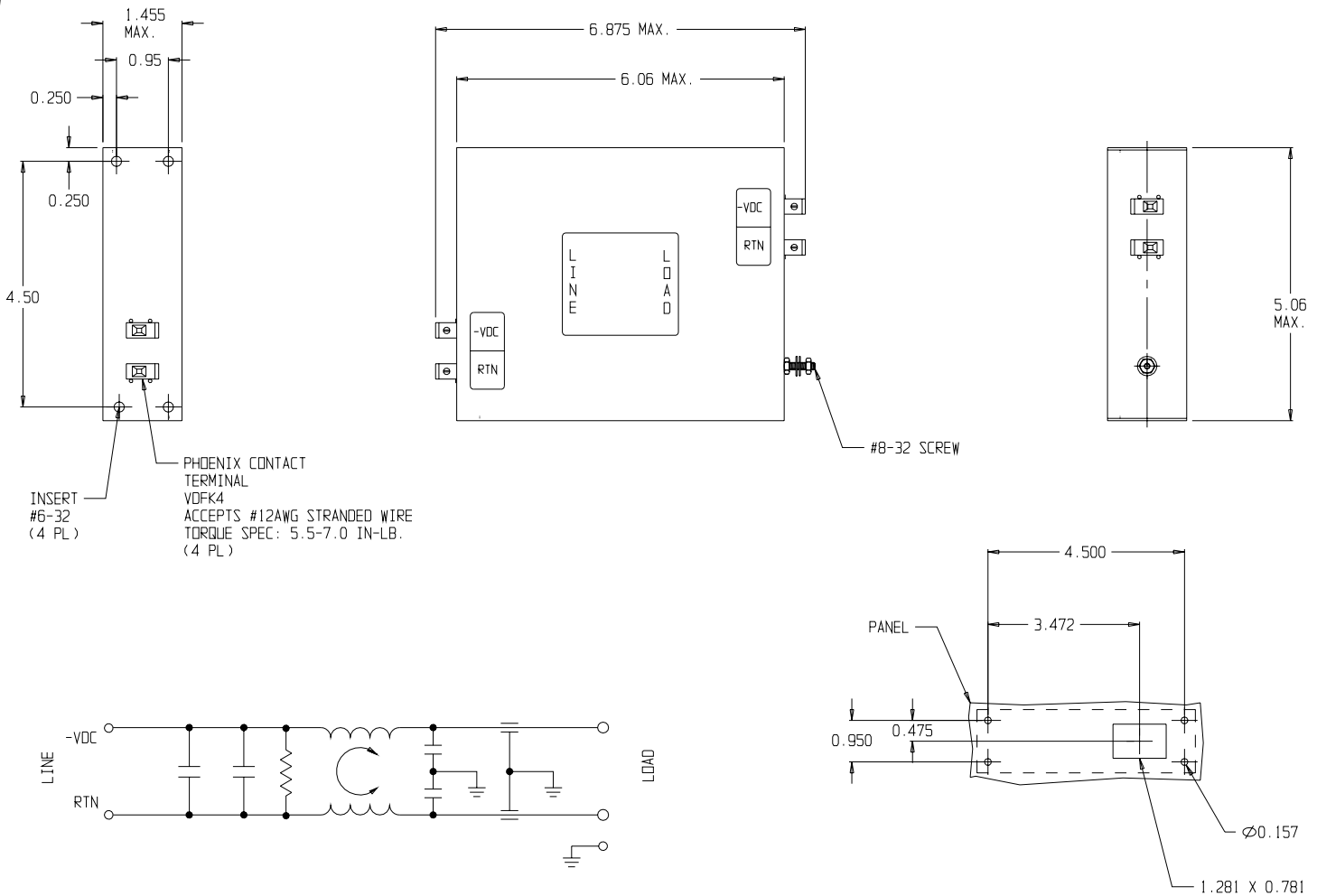
## RECOMMENDED RECEIVING INSPECTION HIPOT:

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 #30DCB10F		
EC#	APPRVD.	DDMMYY
0631-0093-03		11MAR03



## 50Ω - 50Ω (MINIMUM) INSERTION LOSS

FREQUENCY MHz	.01	.05	0.1	.15	0.5	1	3	5	10	20	50 TO 300
COMMON dB		4	15	23	46	59	63	63	54	30	50
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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 844 E. ROCKLAND RD. LIBERTYVILLE IL 60048

## POWER LINE FILTER

CAD FILE: G:\CD\30DCB10F01	TYCO # 4-1609074-6	REV.
SCALE: NTS	DATE: 01-02-01	CATALOG NO.
DRW. BY: PJD	DRIG: PJD	<b>30DCB10F</b>
		<b>1</b>