

# 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: VDE 565-3

# OPERATING SPECIFICATIONS

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

LINE FREQUENCY: 50-60Hz

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

OPERATING AMBIENT TEMP. RANGE: -10°C TO +40°C @ RATED CURRENT,  $I_r$ .

IN AN AMBIENT,  $T_0$ , HIGHER THAN 40°C, THE MAXIMUM OPERATING CURRENT,  $I_0$ , IS AS FOLLOWS:

$$I_0 = I_r \sqrt{\frac{85 - T_0}{45}}$$

# 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: 0.59 mH NOMINAL  
GROUND CHOKE: 0.261 mH NOMINAL  
CAPACITANCE: (MEASURED @ 1KHz, 0.250VAC MAX., 25°C±1°C)  
LINE TO GROUND: 0.011  $\mu$ F±20%  
LINE TO LINE: 0.943  $\mu$ F±20%  
DISCHARGE RESISTOR: 235K  $\Omega$   
L/G AND L/L I.R.:  
NO DISCHARGE RESISTOR: 600M $\Omega$  (MIN.) @ 100VDC, 20°C AND 50% RH

# RECOMMENDED RECEIVING INSPECTION HIPOT:

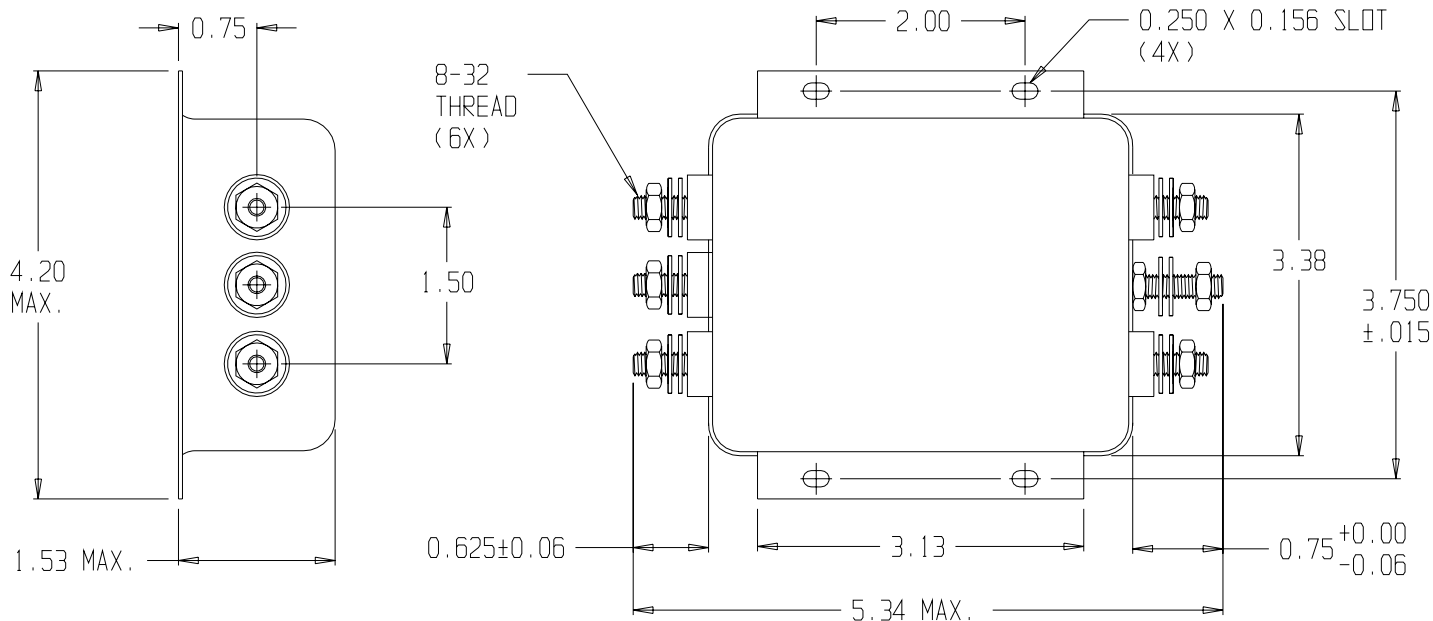
LINE TO GROUND: 1500VAC OR 2250VDC FOR 1 MINUTE  
LINE TO LINE: 1450VDC FOR 1 MINUTE

# FILTER APPROVAL:

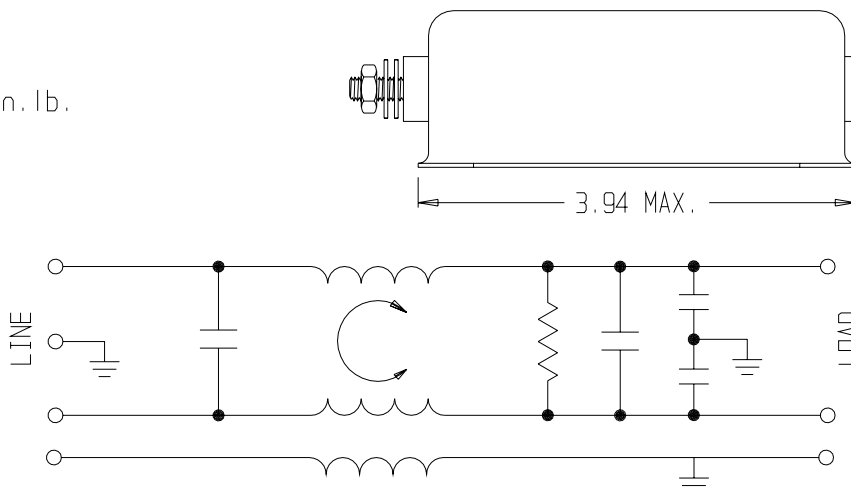
THE BEST WAY TO SELECT AND QUALIFY A FILTER IS FOR YOUR ENGINEERING TO TEST THE UNIT IN YOUR EQUIPMENT.

# CATALOG # 40VK6C

ECN #	APPRVD.	DATE



NOTE:  
TORQUE: 18 ± 2 in.lb.



50 $\Omega$ - 50 $\Omega$ (MINIMUM) INSERTION LOSS										
FREQUENCY MHz	.15	.5	1	2	5	10	20	30		
COMMON dB	9	24	29	29	39	44	44	34		
DIFF. dB	6	52	69	70	70	60	53	53		

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\40VK6C00	DATE: 10/10/97	CATALOG NO. 40VK6C	REV. 0
SCALE: NTS	DRW. BY: JF	DRG: KAW	

# Mouser Electronics

Authorized Distributor

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[TE Connectivity:](#)

[40VK6C](#) [2-6609028-4](#)