Catalog: 1654001

Issue Date: 06.2011



General Purpose RFI Power Line Filters - Ideal for High Impedance Load

K Series



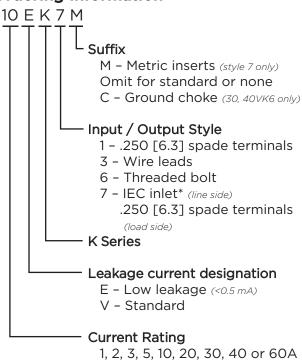
UL Recognized CSA Certified VDE Approved**



K Series

- Suitable for high impedance loads
- Well suited to applications where pulsed, continuous and/or intermittent RFI interference is present
- EK models meet the very low leakage current requirements for VDE portable equipment and non-patient care medical equipment
- Available with ground line inductor (choke)

Ordering Information



*1-15A: IEC 60320-1 C14 inlet mates with C13 connector 20VK7: C20 inlet mates with C19 connector

Specifications

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Maximum leakage current each Line to Ground:

@ 120 VAC 60 Hz: @250 VAC 50 Hz:	VK Models .5 mA 1.0 mA	EK Models .21 mA .36 mA
Hipot rating (one minute): Line to Ground: Line to Line:		2250 VDC 1450 VDC

250 VAC Rated Voltage (max): 50/60 Hz Operating Frequency:

Rated Current: 1 to 60A*

Operating Ambient Temperature Range

(at rated current I_r): -10°C to +40°C In an ambient temperature (Ta) higher than +40°C the maximum operating current (I_O) is calculated as follows: $I_0 = I_r \sqrt{(85-T_a)/45}$

Available Part Numbers

1VK1	10VK6	2EK3	
1VK3	10VK7	3EK1	
2VK1	10VK7M	(7M 3EK3	
2VK3	20VK1	3EK7	
3VK1	20VK6	3EK7M	
3VK3	20VK7*	5EK1	
3VK7	30VK6	5EK3	
3VK7M	30VK6C	5EK7	
5VK1	40VK6	5EK7M	
5VK3	40VK6C	10EK1	
5VK7	60VK6	10EK3	
5VK7M	1EK1	10EK7	
10VK1	1EK3	10EK7M	
10VK3	2EK1	20EK1	

**20VK7, 20A model tested by Underwriters Laboratories to US and Canadian requirements and is VDE approved at 16A, 250VAC

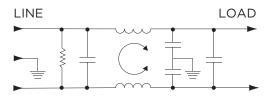


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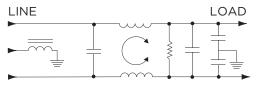
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K Series

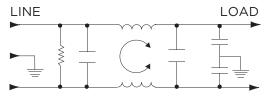
Electrical Schematics



30 & 40VK6C (Inductor in Ground Line)

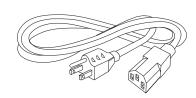


60VK6



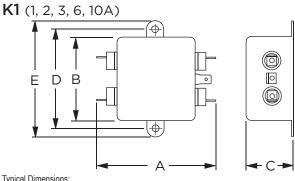
Accessories

GA400: NEMA 5-15P to IEC 60320-1 C-13 line cord





Case Styles

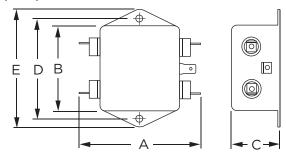


Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

K1 (20A)

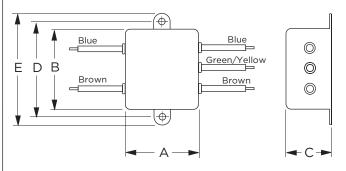


Typical Dimensions:

Line/Load Terminals (4): Ground Terminal (1): Mounting Holes (2):

.250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot .188 [4.78] Dia.

K3



Typical Dimensions:

Wire Leads (5): Mounting Holes (2): 4.0 [101.6] Min., AWG18 (AWG16 for 10A) .188 [4.78] Dia.

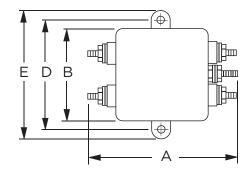


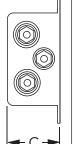
General Purpose RFI Power Line Filters (continued)

K Series

Case Styles (continued)

10VK6

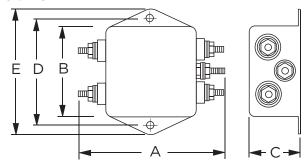




Typical Dimensions:

Terminals (5): Mounting Holes (2): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .188 [4.78] Dia.

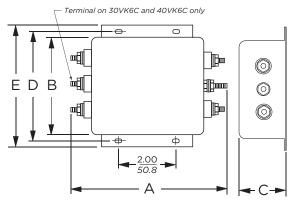
20VK6



Typical Dimensions:

Terminals (5): Mounting Holes (2): 8-32, Torque 18 lbf-in. [2.03 N-m] max. ± 2 [.22] .188 [4.78] Dia.

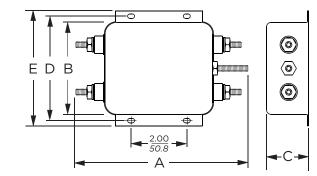
30VK6/6C & 40VK6/6C



Typical Dimensions:

Terminals (5): Mounting Slots (4): 8-32, Torque 18 lbf-in. [2.03 N-m] max. \pm 2 [.22] .250 x .156 [6.35 x 3.96] Dia.

60VK6



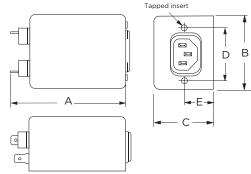
Typical Dimensions:

Terminals (5): Mounting Slots (4): 1/4-20, Torque 56 lbf-in. [6.32 N-m] max. ± 2 [.22] .250 x .156 [6.35 x 3.96] Dia.

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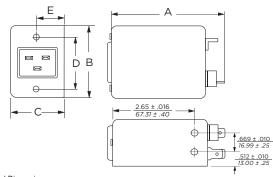
K7 & K7M (3, 5, 10A)



Typical Dimensions:

Load Terminals (2): Ground Terminal (1): Line Inlet (1): K7 Tapped Inserts (2): K7M Tapped Inserts (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot IEC 60320-1 C14 6-32 x 1/4 M3 x .5

20VK7



Typical Dimensions:

Load Terminals (2): Ground Terminal (1): Line Inlet (1): K7 Tapped Inserts (2): .250 [6.3] with .07 [1.8] Dia. hole .250 [6.3] with .07 x .16 [1.8 x 3.8] slot IEC 60320-1 C20

K7 Tapped Inserts (2): 6-32 x 1/4 K7M Tapped Inserts (2): M3 x .5



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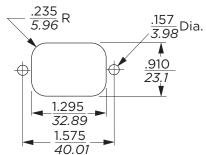
Case Dimensions

Part No.	Α	В	С	D	Е
	(max)	(max)	(max)	± .015 ± .38	(max)
1VK1, 1EK1,	3.1	2.07	0.91	2.375	2.81
2VK1, 2EK1	78.7	52.6	23.1	60.33	74.1
1VK3, 1EK3,	1.81	2.07	0.91	2.375	2.81
2VK3, 2EK3	46.0	52.6	23.1	60.33	74.1
3VK1, 3EK1,	3.10	2.07	1.16	2.375	2.81
5VK1, 5EK1	78.7	52.6	29.5	60.33	74.1
3VK3, 3EK3,	1.81	2.07	1.16	2.375	2.81
5VK5, 5EK3	46.0	52.6	29.5	60.33	74.4
3VK7/7M,	3.21	2.25	1.28	1.575	0.63*
3EK7/7M	81.5	57.2	32.5	40.01	16.0°
5VK7/7M,	3.21	2.25	1.28	1.575	0.63*
5EK7/7M	81.5	57.2	32.5	40.01	16.0°
10VK1,	3.35	2.07	1.16	2.375	2.81
10EK1	85.1	52.6	29.5	60.33	71.4
10VK3,	2.07	2.07	1.16	2.375	2.81
10EK3	52.6	52.6	29.5	60.33	71.4
10VK6	3.46	2.07	1.16	2.375	2.81
10 110	87.9	52.6	29.5	60.33	71.4
10VK7/7M,	3.71	2.25	1.28	1.575	0.63*
10EK7/7M	94.2	57.2	32.5	40.01	16.0*
20VK1,	3.35	2.56	1.53	2.938	3.35
20EK1	85.1	65.0	38.9	74.63	85.1
20VK6	3.46	2.56	1.53	2.938	3.35
20 V N O	87.9	65.0	38.9	74.63	85.1
20VK7	3.8	2.28	1.78	1.575	.846
	90.4	54.6	39.6	74.63	85.8
30VK6,	5.34	3.38	1.53	3.75	4.20
30VK6C	135.6	85.9	38.9	95.25	106.7
40VK6,	5.34	3.38	1.53	3.75	4.20
40VK6C	135.6	85.9	38.9	95.25	106.7
60VK6	6.0	3.38	1.53	3.75	4.20
	152.4	85.9	38.9	95.25	106.7

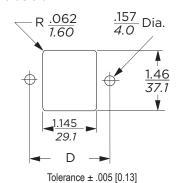
*±0.02 [0.5] 1±0.01 [0.25]

Recommended Panel Cutouts

K7 & K7M Cutout (3, 5, 10A)



20VK7 Cutout



Performance Data

Typical Insertion Loss

Measured in closed 50 Ohm system

