

Catalog: 1654001 Issue Date: 06.2011

Single and 2-phase RFI Filters for Industrial Applications

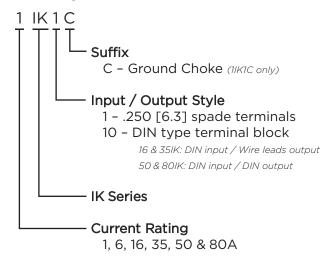
IK Series



IK Series

- Excellent performance for applications with high interference levels
- Designed for single or two-phase applications
- Wide current range
- For small to medium sized industrial equipment, power converters and variable speed motors
- Touch safe terminals on the 6 to 60A product provide easy connections and prevent inadvertent contact for safety in the most demanding applications

Ordering Information



Available Part Number

1IK1C	6IK1
16IK10	35IK10
50IK10	80IK10

Specifications

Maximum leakage current each Line to Ground:

@120 VAC 60 Hz:

	IIK & GIK:	0.6 MA
	16, 35 & 50IK:	1.7 mA
	80IK:	5.2 mA
@289 VAC 50 Hz:		
_	1IK:	1.2 mA
@277 VAC 50 Hz:		
9	6lK.	115 m∆

111/ 0 611/

16, 35 & 50IK: 3.2 mA 9.9 mA

80IK:

1 to 80A

Hipot rating (one minute):

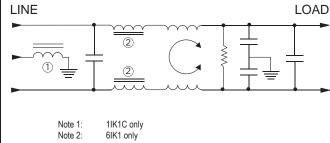
Rated Current:

Line to Ground: 2250 VDC Line to Line: 1450 VDC Rated Voltage (max): <u>11K</u> 6 to 80IK Line to Ground: 289 VAC 500 VAC Line to Line: 277 VAC 480 VAC Operating Frequency: 50/60 Hz

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_0) is calculated as follows: $I_0 = I_r \sqrt{(85-T_a)/45}$

Electrical Schematic



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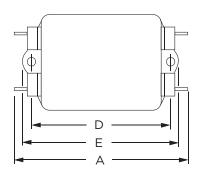


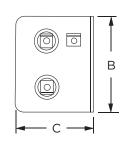
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Case Styles

1IK1C

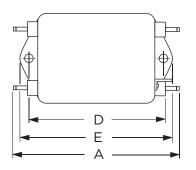


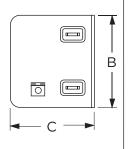


Typical Dimensions:

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.

6IK1

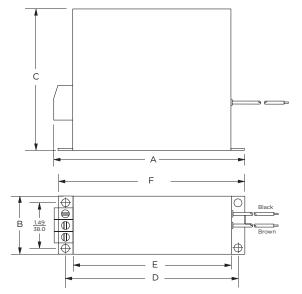




Typical Dimensions:

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.

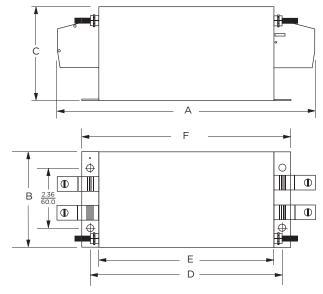
16 & 35IK10



Typical Dimensions:

Input Terminals (3): Output Wire Leads (2): Mounting Holes (4): DIN type terminal block 7.0 [180.0] min. .216 [5.5] dia.

50 & 80IK10



Typical Dimensions:

Line / Load terminals (4): Ground terminals (2): Mounting Holes (4):

DIN type terminal block 1/4-20 screw .260 [6.5] dia.



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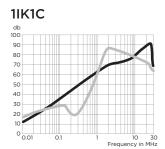
Case Dimensions

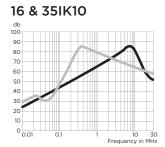
Part No.	A (max)	B (max)	C (max)	D ± .020 ± .510	E (max)	F ± .010 ± .254
1IK1C	3.85	2.07	1.53	2.93	3.35	
	97.8	52.6	38.9	74.4	85.1	
6IK1	4.69	2.27	1.8	4.063	4.47	_
	119.1	57.7	45.7	103.2	113.5	
16IK10	6.28	1.97	4.76	5.90	5.35	6.34
	159.5	50.0	121.0	150.0	136.0	161.0
35IK10	6.48	1.97	4.76	5.90	5.35	6.34
	164.5	50.0	121.0	150.0	136.0	161.0
50IK10	9.45	3.94	3.54	6.89	6.3	7.48
80IK10	240.0	100.0	90.0	175.0	160.0	190.0

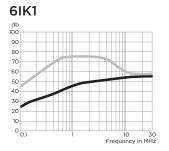
Performance Data

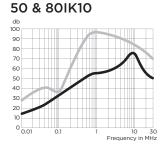
Typical Insertion Loss

Measured in closed 50 Ohm system









Common Mode / Asymmetrical (L-G)
Differential Mode / Symmetrical (L-L)