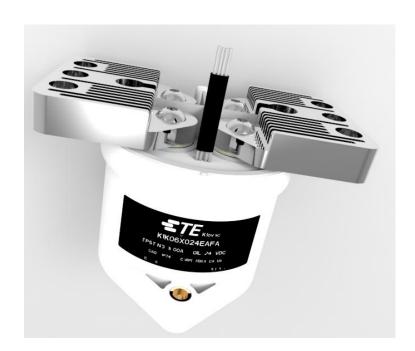
K1K06X Contactor

1000Vdc/1000A Bi-Directional Power Switching SPST-NO Form X

Product Facts:

- Lowest cost, smallest 1000A/1000V hermetically sealed contactor in the industry
- Bottom mount or Bus Bar Mount
- Hermetically Sealed Operates in explosive/harsh environments without oxidation or contamination of contacts, including long periods of nonoperation.
- Typical applications include Ground Vehicle Power Systems, power/motor control circuit isolation, Circuit Protection and safety. Suitable for Low Voltage up to 1000Vdc power switching.
- Electronic Two-Coil Economizer with Internal Suppression
- SPST-NO Auxiliary Contact







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K1K06X Contactor

Dimensions shown for reference only. Specifications subject to change.

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General Specifications

Units

Contact Arrangement: Main Contacts SPST-NO (form X) SPST-NO Aux Contacts See Figure 1 Dimensions Weight, Nominal kg 1.02

Environmental Data

Shock, 11ms ½ sine (operating) G peak 20 Sine Vibration, 20 G pk Hz 55-2000 Operating Temperature Range -40 to +105 °С

Physical Data

Electrical Data			
Voltage Rating: Main Contacts Switching (max)	Vdc	1000	
Current Rating, Continuous: Main Contacts (1)	Α	+/-1000	
Short Term Current		1200A/180s	
Contact Resistance: Main Contacts	mΩ	0.4 max @ rated current	
Resistive Load Performance (DC-1):			
50A/1000Vdc	Cycles	25k	
130A/1000Vdc		10k	
200A/1000Vdc		3.5k	
100A/600Vdc		10k	
240A/600Vdc		2k	
1200A/1000Vdc (Break Only)		4 cycles	
650A (make only)	Cycles	50	
Maximum Short Circuit Current (1/2 cycle, 60 Hz)	Α	6000	
(through closed contacts)			
Mechanical Life	Cycles	100,000	
Dielectric Withstand Voltage:			
Between Open Contacts	Vrms	2800	
Contacts to Coil	Vrms/Vdc	2800/4000	
Insulation resistance			
Terminal to Terminal/ Terminals to Coil	ΜΩ	100 min @ 500Vdc (new)	
		50 min @ 500Vdc (end of life)	
Auxiliary Contact Rating:	W	1A/30Vdc	
Switching Life at Max Rating	Cycles	100k	
Auxiliary Contact Resistance (max over life)	Ohms	1	
Minimum Load	Vdc/mA	5Vdc/5mA	

Coil Data @ 20C (Internal Two-Coil Economizer)

Coil Voltage Range	Vdc	24Vdc Nom	12Vdc Nom
		32Vdc Max	16Vdc Max
Maximum Pickup Current (nom)	Α	5.5	5.5A
Nominal Holding Current (nom)	Α	0.33	.80
Pickup Voltage (max)	Vdc	18	9
Dropout Voltage (max)	Vdc	10	6
Pickup Pulse (max)	ms	75	100
Coil Resistance +/-5%	Ω	4.7 Pickup/72 Hold	2.5 Pickup/15 Hold
Coil Holding Power	W	8	8.5
Main Contacts:		50	
Operate Time (Max)	ms		
Operate Bounce (Typ.)	ms	5	
Release (Typ.	ms	8	

⁽¹⁾ At 25C Ambient with 4X 4/0 conductor or equivalent. Recommended connection, TE PN 321878-1.

CAGE CODE



AEROSPACE, DEFENSE & MARINE



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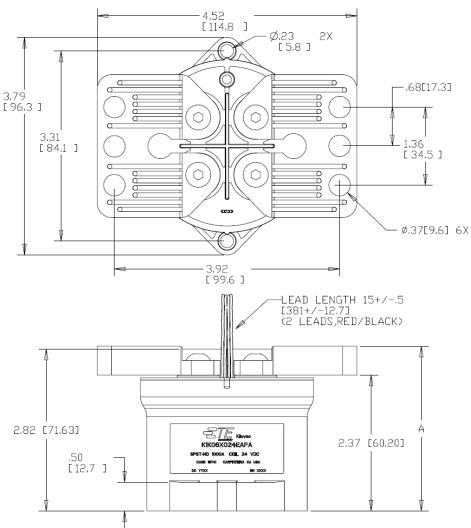
Dimensions shown for reference only. Specifications subject to change.

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Figure 1 Product Dimensions



Dimension A:

Terminal Option F, dimension = 2.87[72.9]

Terminal Option G, dimension = 2.56[65.0]

Terminal Option H, dimension = 2.37[50.2]

All Dimensions +/-.03"

Coil Wire:

Red = Vdc+

Black = RTN

White(2X) = Aux Contact

All Wires 22AWG, M22759/11



KIOVAC Brand

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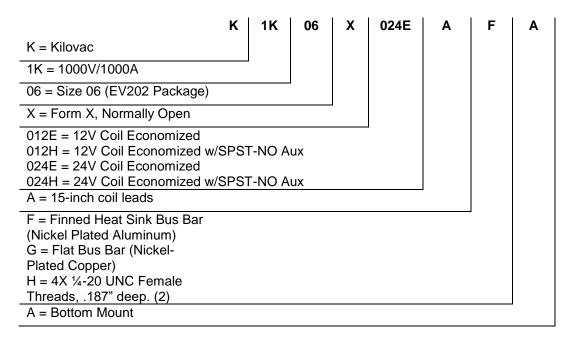
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PN Selection



(2) User furnished bus bar must be equivalent to 4X 4/0 conductor. Torque to 45-55 in-lbs. per connection (5.1 – 6.2 NM)



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