



# K110 Series

50A SPST/40A SPDT

Latching Relay



 **KG Technologies**

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## 50A Power Latching Relay

- 50A Switching, 4000W Lamp Load, 5Hp Motor Load.
- Inrush current up to 170A.
- RoHS Compliant
- 8mm Creepage. 4000Vac Dielectric Strength.
- SPST & SPDT Configuration
- Sealed IP67 and Flux proof type Available
- Available Manual Switch

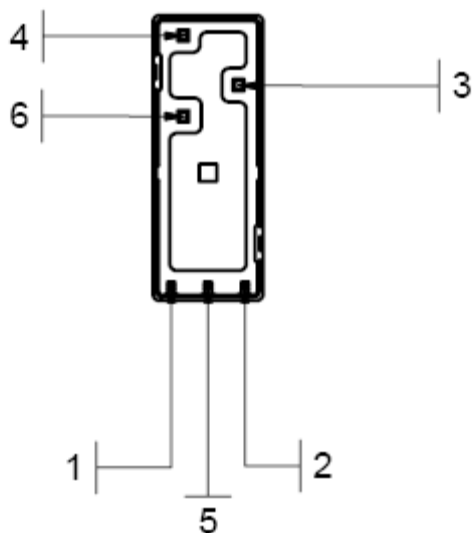


## K110

### Specifications

Contact Data		Characteristics	
Rated load (FLA)	<b>SPST-</b> 50A/440Vac 5000W 220VAC ( <i>Lamp Load</i> ) 5HP 250VAC ( <i>Motor Load</i> )	Insulation resistance	1,000 M Ohm (at 500VDC)
	<b>SPDT-</b> 40A/250Vac	Dielectric strength:	
		coil to contact	4000 Vrms for 1 minute
		across open contacts	1500 Vrms for 1 minute
Contact arrangement	1A & 1C	Dielectric Creepage: SPST	≥ 8mm
Contact material	AgSnO <sub>2</sub>	SPDT	≥ 6mm
Initial contact resistance	50m Ohm (1A@24Vdc)	Operate time	15ms
Current withstanding	TBD	Release time	15ms
Max. operating current	50A	Operating temperature	-40 C to + 70 C
Max. operating voltage	440Vac	Storage temperature	-40 C to + 100 C
Max. switching capacity	50A	Ambient Humidity	98%, +40 C
Expected life:		Vibration	1.5 mm (DA), 10~55 Hz
electrical (rated load)	100k @ 50A / 250Vac 30k @ 5000W / 220Vac 30k @ 5HP / 250Vac	Power Consumption	1.5W – Single Coil 3.0W – Dual Coil
	<b>SPDT-</b> 30k @ 40A / 250Vac	Shock:	
mechanical	1000k	functional	98 m/s squared
		Dimensions	(39 X 15 X 30.2 )mm
		Unit Weight	Approx. 32g
		Termination	PCB





## Application Notes:

KG Technologies, Inc. cannot predict every possible application for our relays. While we do our best to make our relays as versatile as possible, we highly recommend contacting our engineering team if you have any questions. KG Technologies, Inc. is not responsible for malfunctioning relays when operated outside the specified parameters given in this datasheet.

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### Standard polarity

Single coil, SPST type		Double coil, SPST type	
1 (+) 2 (-)	1 (-) 2 (+)	1 (-) 5 (+)	5 (+) 2 (-)

Single coil, SPDT type		Double coil, SPDT type	
1 (+) 2 (-)	1 (-) 2 (+)	1 (-) 5 (+)	5 (+) 2 (-)

### Reverse polarity

Single coil, SPST type		Double coil, SPST type	
1 (-) 2 (+)	1 (+) 2 (-)	1 (+) 5 (-)	5 (-) 2 (+)

Single coil, SPDT type		Double coil, SPDT type	
1 (-) 2 (+)	1 (+) 2 (-)	1 (+) 5 (-)	5 (-) 2 (+)