K850 Series

60A Latching Relay

UL File Number: E178562

KG Technologies

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60A Power Latching Relay

- *Polarized Magnetic Latch*
- *Very minimal power consumption from the coil*
- *8mm creepage distance*
- *High (4KV) dielectric strength coil to contact*
- *Small (38 X30 X16)mm package design*
- *Optional factory installed flex leads available*

K850 *Specifications*

Type	**K850 A or L**		**K850 A or L**
A= flat terminals, L= flex leads			

Contact Data		**Characteristics**	
Rated load (FLA)	60A/250Vac, 40A/28Vdc	Insulation resistance	1000 M Ohm, 500Vdc
Contact arrangement	SPST-NO	Dielectric strength:	
Contact material	silver cadmium	coil to contact	4000 VAC for 1 min.
Initial contact resistance	50mOhm(1A, 24VDC)	across open contacts	1500 VAC for 1 min.
Current carry (LRA)	60A	Operate time	20 ms max.
Max. operating current	60A	Release time	20 ms max.
Max. operating voltage	250Vac	Ambient temperature	-40 to +70 C
Max.switching capacity	15KVA	Dimensions	(38 X 30 X 16)mm
Expected life:			
electrical (rated load)	100,000		
mechanical	1,000,000		

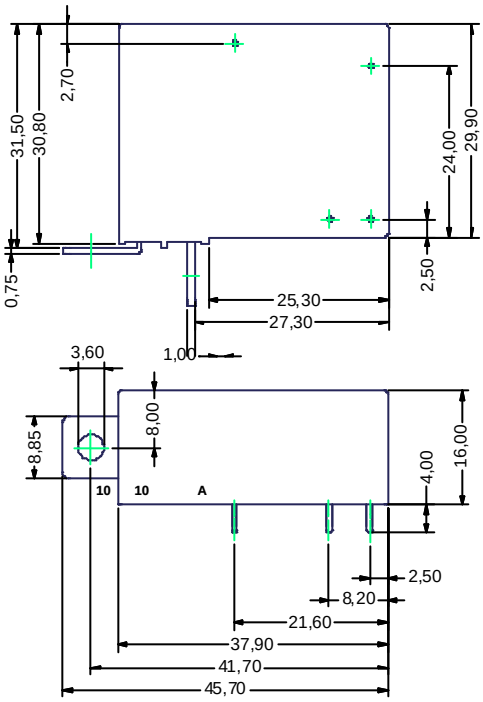
Coil data

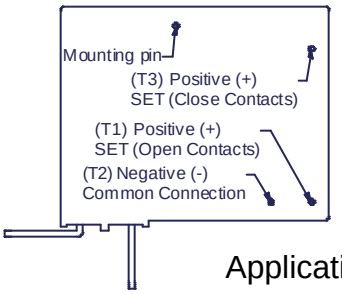
Coil consumption -	1 W for 20 ms
Coil voltage range -	9~24Vdc

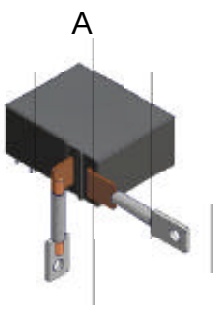
Rated coil voltage	**Coil resistance**	**Pick up voltage**	**Operating voltage**	**Pulse duration**
	Ohm +/- 10%	(VDC) max.	(VDC)	(ms)
9Vdc	2 x 40 Ohms	75% of nominal	6.3	50
12Vdc	2 x 72.5 Ohms	75% of nominal	8.4	50
24Vdc	2 x 287.5 Ohms	75% of nominal	16.8	50

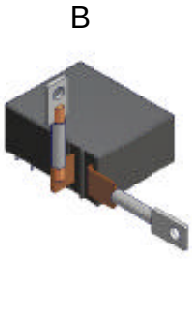
Safety approvals

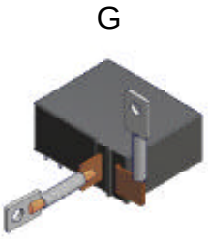
UL	cUL	CSA	TUV	VDE
X	X			

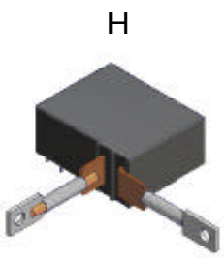


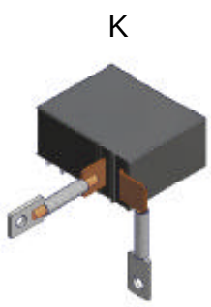












Application Notes:

Method 1: Place a negative connection on T2. Then apply a 50ms Positive pulse to T1 to open the contacts or to T3 to close the contacts.

Method 2: Place a negative connection on T1. Then apply a 50ms Positive pulse to T3 to close the relay. Reversing Polarity will open the contacts.

K850 Ordering Information

K850 A-S012 A-A 000-A

Series
K850

Terminal Style
A = Without Leads
L = With Leads

Nominal Coil Voltage
006 Vdc
009 Vdc
012 Vdc
024 Vdc
048 Vdc

Features
A = PCB
B through Z = Special

Lead wire connection
Style= A through Z
(see drawings)

Lead wire length
In millimeters

Special Features
A = None
B through Z = Special
R = RoHS Compliant