



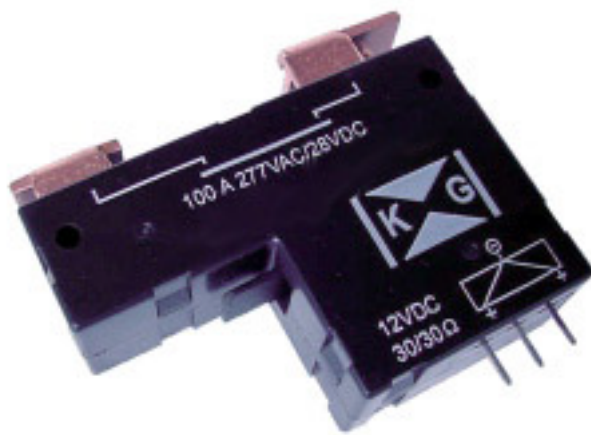
K100 Series

100A Latching Relay

UL File Number: E178562

VDE-Reg.-Nr. 40001431

US Patent Number: 6,046,660



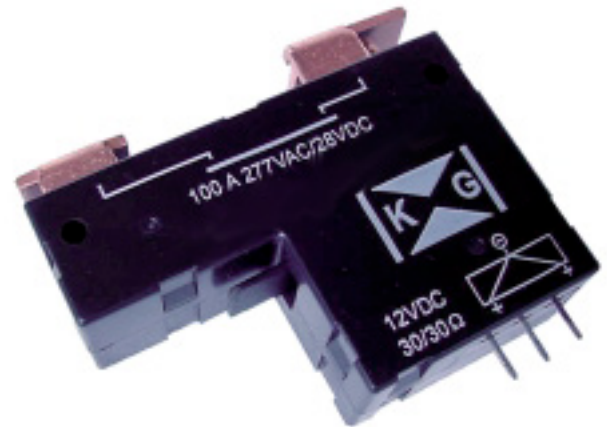
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100A Power Latching Relay

- 3mm contact gap
- Patented linear drive unit
- Patented double make contact bridge
- A short current path for overall lower resistance
- Minimal power consumption from the coil



K100 Specifications

Type	K100A, B, or C	K100A, B, or C	K100A, B, or C
Contact Data		Characteristics	
Rated load (FLA)	100A/480Vac	Insulation resistance	1,000 M Ohm (at 500VDC)
Contact arrangement	SPST-NO-DM	Dielectric strength:	
Contact material	Silver alloy	coil to contact	5,000 VAC for 1 minute
Initial contact resistance	50m Ohm (1A@24Vdc)	across open contacts	5,000 Vac for 1 minute
Current withstanding	TBD	Operate time	20ms
Max. operating current	300A	Release time	20ms
Max. operating voltage	480Vac or 60Vdc	Ambient temperature	-40 to +70 C
Max. switching capacity	100A	Vibration	1.0 mm (DA), 10~55 Hz
Expected life:		Shock:	
electrical (rated load)	20,000	functional	98 m/s squared
mechanical	1,000,000	mechanical	980m/s squared
		Dimensions	(60 X 40 X 21)mm
		Terminals	(A, B, C,) see drawings

Coil data

Coil consumption	4.8W for 50mS
Coil voltage rate	6~48Vdc

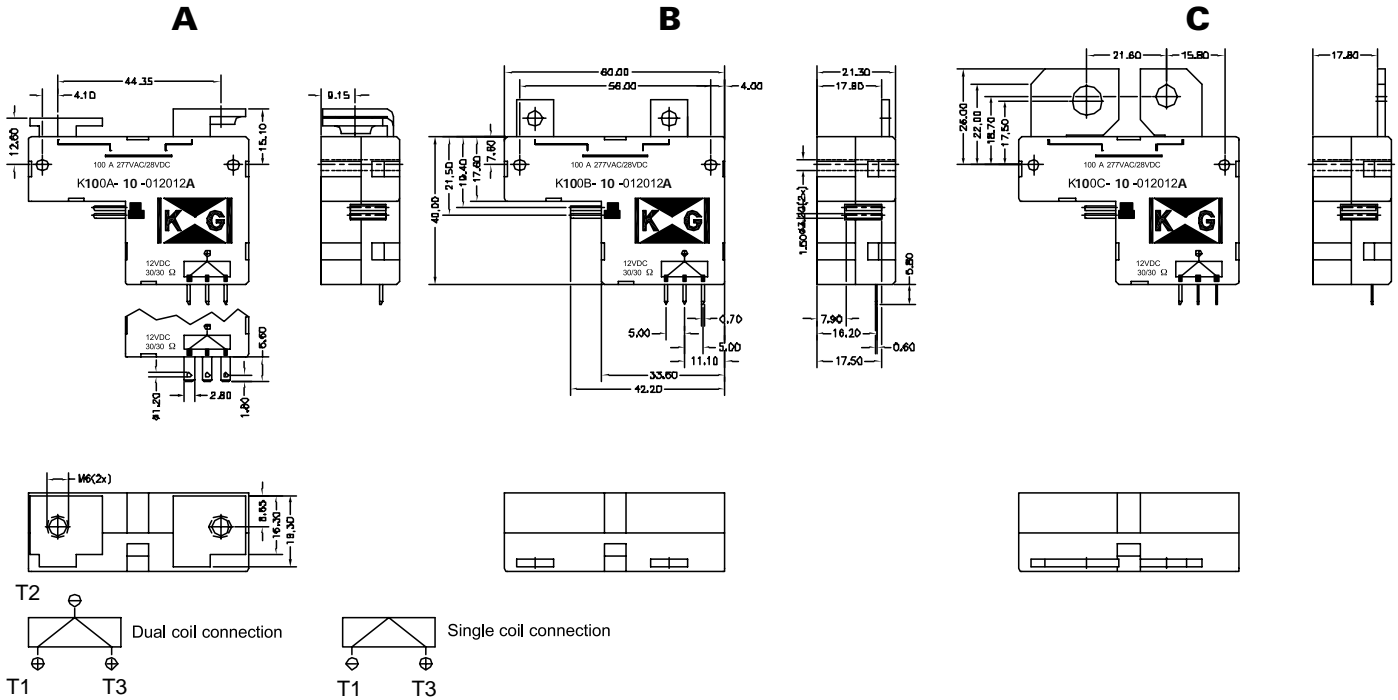
Nominal coil voltage	Coil resistance	Min Operating voltage	Pulse duration
6Vdc	2 x 8 Ohm	4.8Vdc	50ms min.
12Vdc	2 x 30 Ohm	9.6Vdc	50ms min.
24Vdc	2 x 125 Ohm	19.2Vdc	50ms min.
48Vdc	2 x 500 Ohm	38.4Vdc	50ms min.

Safety approvals

UL	cUL	CSA	TUV	VDE
X	X			X

K100

100A Power Latching Relays



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.

K100

Ordering Information

