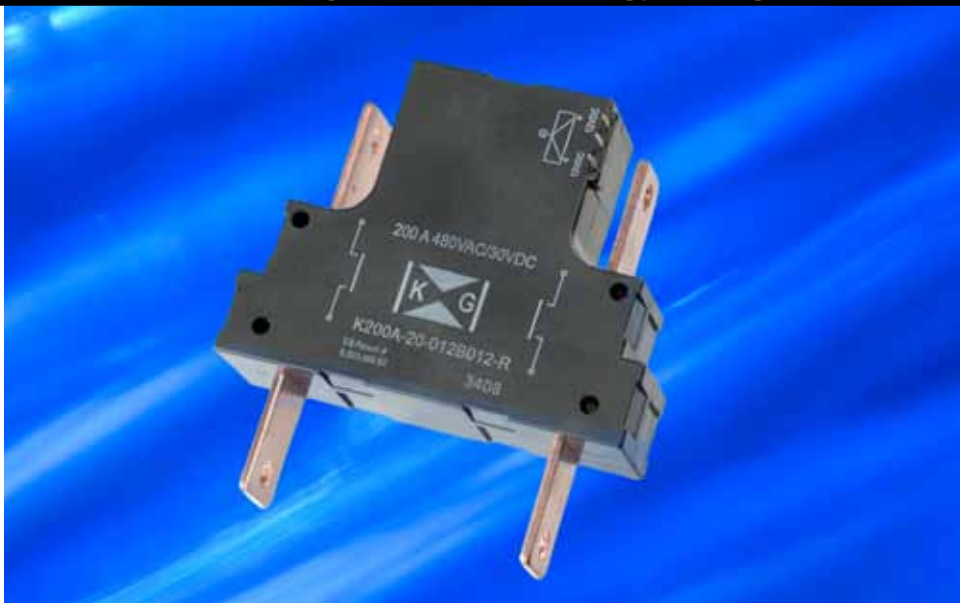


HIGH-POWER LATCHING RELAY

- » 200A switching capability
- » Heavy load up to 55.4kVA
- » Patented linear drive unit
- » Patented two-pole double-make contact
- » Short current path for overall lower resistance
- » Minimal coil power consumption
- » Outline dimensions:
(100.0 x 80.0 x 29.8)mm
- » RoHS compliant



Contact Data [Click here for glossary of terms](#)

Rated load	200A 277Vac/28Vdc
Contact form	2A or 2B
Contact material	AgSnO ₂
Max. switching voltage	440Vac
Max. switching current	200A
Max. switching power:	
AC switching	55,400VA
DC switching	5,600W
Electical endurance	10,000 cycles
Mechanical endurance	1,000,000 cycles

Characteristics [Click here for glossary of terms](#)

Insulation resistance	1,000 MΩ (at 500Vdc)
Dielectric strength:	
Coil to contact	4,000 Vac for 1 min.
Across open contacts	2,000 Vac for 1 min.
Dielectric creepage	≥8mm
Operating temperature	-40°C to +85°C
Ambient humidity	98% RH, +40°C
Vibration	1.0mm (DA), 10 to 55 Hz
Shock resistance:	
Functional *	10G
Mechanical	100G
Termination	PCB

* Unit may change state but is still functional.

Coil Data [Click here for glossary of terms](#)

	Single Coil	Dual Coil
Coil Consumption	12w	24w
Pulse Duration	Max. 150ms	Max. 150ms

Coil Resistance (Ω± 10%) @ 23°C				
Nominal Coil Voltage	Min. Operating Voltage	Max. Operating Voltage	Single Coil (Latching)	Dual Coil (Latching)
12Vdc	9.6Vdc	14.4Vdc	12Ω	2 x 6Ω
24Vdc	19.2Vdc	28.8Vdc	48Ω	2 x 24Ω
48Vdc	38.4Vdc	57.6Vdc	190Ω	2 x 95Ω

Ordering Information

	K200	A	-	D	012	Q	P	-	2A	T
Relay Series:										
Terminal Type:	A: See drawings ¹ X: Custom design ²									
Coil Type:	S: Single coil D: Dual coil									
Coil Voltage³:	12, 24, 48 Vdc									
Coil Terminal Type:	Q: Quick connect R: PCB terminals									
Coil Polarity:	P: Positive N: Negative									
Contact Form:	2A: Form 2A – NO 2B: Form 2B – NC									
Contact Material:	T: AgSnO ₂									

¹ Other standard terminal type drawings available upon request.

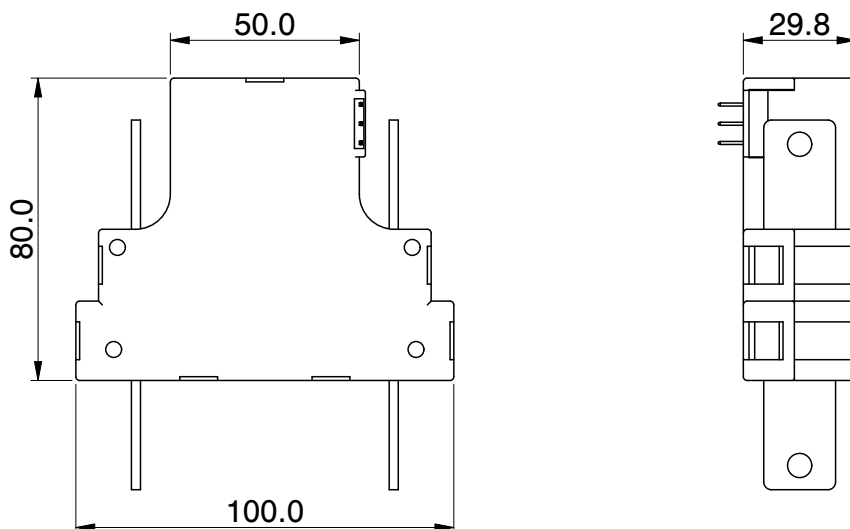
² For custom designs, please contact KG Technologies. Integrated shunts, flex-wire, copper extensions and brass terminals available.

³ Coil voltage should be indicated in three digit format (6Vdc = 006)

Dimensional Drawings

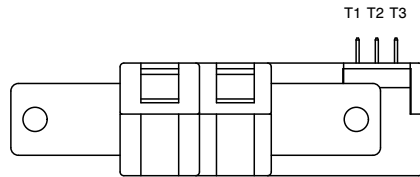
All dimensions in mm unless otherwise noted. For more information, please contact KG Technologies.

A-Style Terminals

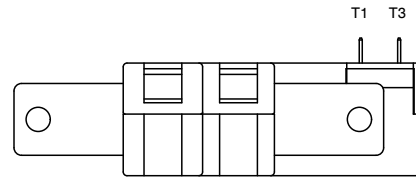


Wiring Diagrams

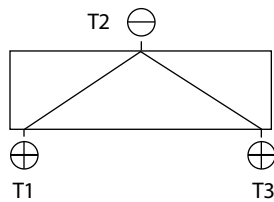
Dual Coil



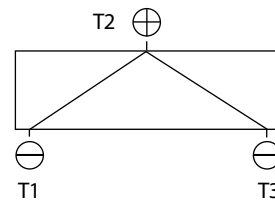
Single Coil



Dual Coil Connection

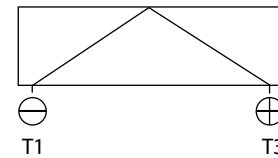


Positive Polarity



Negative Polarity

Single Coil Connection



Application Notes

Dual Coil – Positive Polarity: 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.

Dual Coil – Negative Polarity: Place a positive connection on T2. Then apply a 50ms negative pulse to T3 to open the contacts or to T1 to close the contacts.

Single Coil: Place a negative connection on T1. Then apply a 50ms positive pulse to T3 to close the contacts. Reversing polarity will open the contacts.

Additional Application Notes

1: All relays are shipped in the “Closed” position. It is possible that during transit or final assembly the relay could change its state to the “Open” position. Therefore, it is recommended that all relays be set to the desired state of the relay via a power supply.

2: In order to maintain an “Open” or “Closed” state of the relay, the coil voltage should reach the rated voltage. The pulse width should be 50ms minimum to ensure a proper change of state. DO NOT energize both T1 and T3 at the same time on a Dual Coil or energize the coil for longer than 1 minute (damage to the coil could incur).

3: Relays without flex-wire cannot be tin-soldered. Moving or bending the terminals could cause damage to the internal structure of the relay.

4: For definitions of terms used in this data sheet, see glossary at www.kgtechnologies.net.

Disclaimer: This data sheet is for reference only. All specifications are subject to change without prior notice. 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 data sheet.