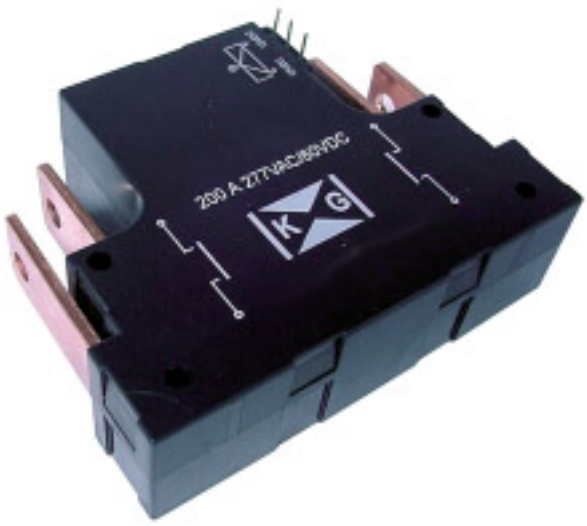
K200 Series

200A Latching Relay

US Patent Number: 6,320,485 B1



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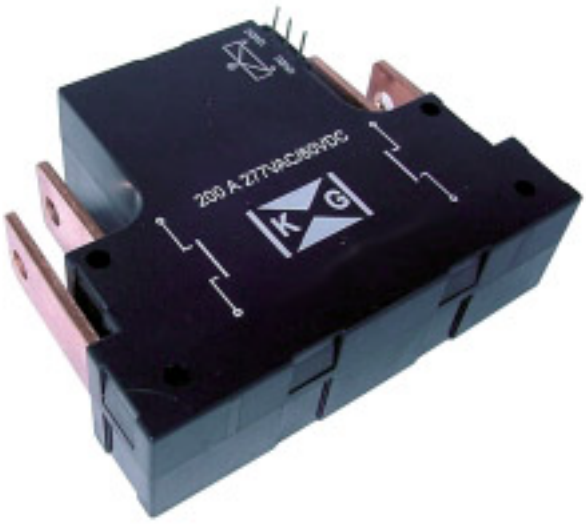
200A Power Latching Relay

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



K200 Specifications

Type	K200A, B or D		K200A, B or D
Contact Data		**Characteristics**	
Rated load (FLA)	200A/480Vac	Insulation resistance	1,000 M Ohm (at 500VDC)
Contact arrangement	DPST-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	30ms
Max. operating current	240A	Release time	30ms
Max. operating voltage	600Vac or 120Vdc	Operating temperature	-40 to +70 C
Max.switching capacity	200A	Vibration	1.0 mm (DA), 10~55 Hz
Expected life:		Shock:	
electrical (rated load)	10,000	functional	98 m/s squared
mechanical	100,000	mechanical	980m/s squared
		Dimensions	(100 X 80 X 30)mm
		Terminals	(A, B, or M) see drawings

Coil data

Coil consumption -	24W for 50mS
Coil voltage range -	6~48Vdc

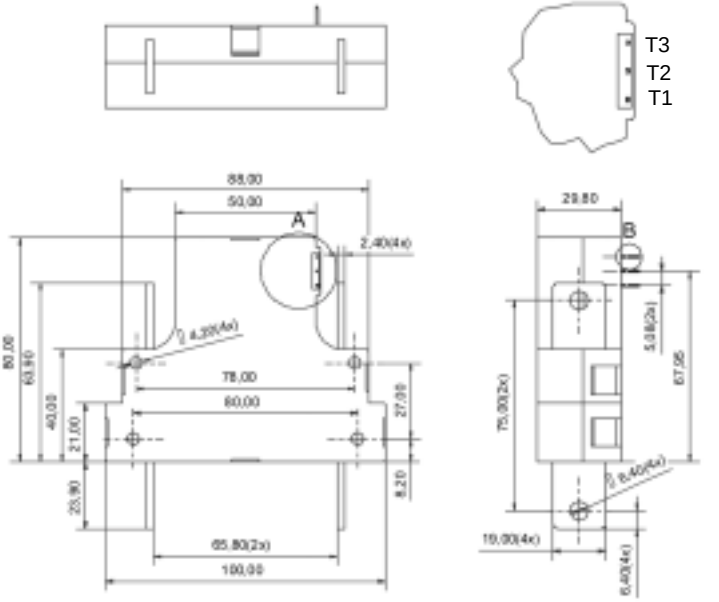
Nominal coil voltage	Coil resistance	Min Operating voltage	Pulse duration
12Vdc	2 x 6-Ohm	9.6Vdc	50ms min.
24Vdc	2 x 24-Ohm	19.2Vdc	50ms min.
48Vdc	2 x 95-Ohm	38.4Vdc	50ms min

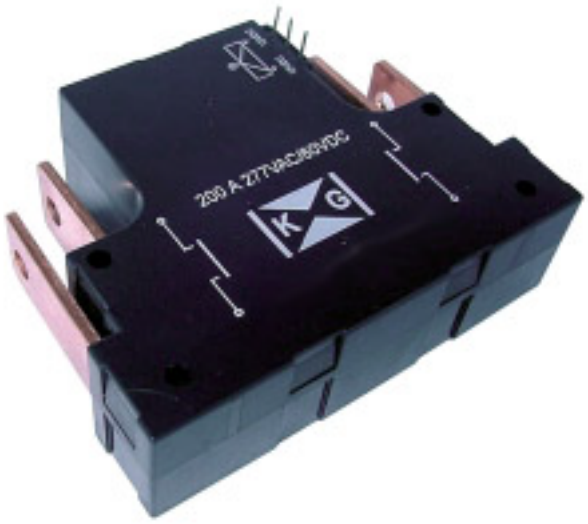
Safety approvals

UL	cUL	CSA	TUV	VDE	
*X	*X			*X	*Pending

K200

200A Power Latching Relays





K200 with B style Terminals shown.

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.

K200

Ordering Information

K200 A-2 0-012 A 012-A

Series
K200 (2 pole)

Load (Contact) Terminal Style
(See outline drawings)

Number of Form X (SPST-NO-DM)
(Single pole single throw-
normally open-double make)

Number of Form Y (SPST-NC-DB)
(Single pole single throw-
normally closed-double break)

Coil Voltage #1 (Set)
006 = 6 VDC
012 = 12 VDC
024 = 24 VDC
048 = 48 VDC

Coil Terminal Style
A = .110 inch quick connect
B = PC board terminals
C - Z = special

Coil Voltage #2 (Reset)
006 = 6 VDC
012 = 12 VDC
024 = 24 VDC
048 = 48 VDC

Special Features
A = None
B = 3mm contact gap