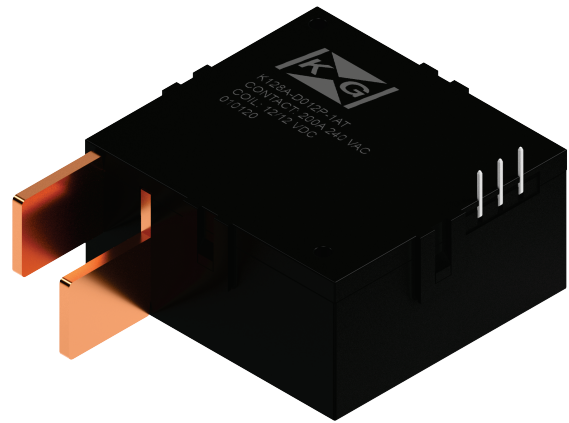


HIGH POWER LATCHING RELAY

- 200A Latching Relay
- IEC 61810-1 Compliant relay
- 4kV dielectric strength between coil and contacts
- Outline dimensions: (61.3 x 57.0 x 29.3)mm
- Custom assemblies available with flex wire and/or copper extensions, and/or with integrated shunt
- RoHS compliant materials and process



Contact Data

Rated Load *	200A @ 240V
Contact form	1A or 1B
Contact material	AgSnO ₂
Contact resistance †	0.25mΩ (at 200 A)
Max. switching voltage	277 Vac
Max. switching current	200 A
Rated switching power	44,000 VA
Set time	≤ 25 ms
Reset time	≤ 25 ms
Electrical endurance ‡	5,000 cycles
Mechanical endurance	100,000 cycles

Characteristics

Insulation resistance	1,000MΩ (at 500 Vdc)
Dielectric strength:	
Coil to contact	4kVac for 1 min
	12kV 1.2μs/50μs
Across open contacts	2kVac for 1min
Dielectric creepage	9.6 mm
Ambient temperature	-40°C to +85°C
Ambient humidity	5% - 85% RH
Vibration	1.5 mm (DA) 10 Hz to 55 Hz
Shock resistance:	
Functional §	98 m/s ²
Survival	980 m/s ²
Coil termination	PCB or Wire
Unit weight	±151g

* Resistive load

† Typical value for Initial Contact Resistance: Using a sample quantity of at least 20 units, take the average value from 5 continuous measurements from each sample

‡ Rating at: 200A / 250Vac; Resistive load @ 23°C; Duty Cycle:0.6s ON/5.4s OFF

§ Unit may change state but is still functional

Coil Data

	Single Coil (Latching)	Dual Coil (Latching)
Coil Consumption	5W	10W
Pulse Duration	50ms	50ms

Coil Resistance

($\Omega \pm 10\%$) at 23°C

Nominal Coil Voltage	Min Set/Reset Voltage	Single Coil (Latching)	Dual Coil (Latching)
6Vdc	4.8Vdc	7.2 Ω	2 x 3.6 Ω
9Vdc	7.2Vdc	16.2 Ω	2 x 8.1 Ω
12Vdc	9.6Vdc	28.8 Ω	2 x 14.4 Ω
24Vdc	19.2Vdc	115.2 Ω	2 x 57.6 Ω
48Vdc	38.4Vdc	460.8 Ω	2 x 230.4 Ω

Ordering Information

K128



-



-

T

2

-Cxxxx

Relay Series

Terminal Type: A: See Drawing
X: Custom Design **

Coil Type: S: Single Coil
D: Dual Coil

Coil Voltage ^{††}: 6, 9, 12, 24, 48 Vdc

Polarity: P: Positive
N: Negative

Contact Form: 1A: Form 1A – Normally open (NO)
1B: Form 1B – Normally closed (NC)

Contact Material: T: AgSnO₂

Contact Type: 2: Dual contact

Custom Number: Cxxxx: Where xxxx represents a unique number for custom relay terminal designs

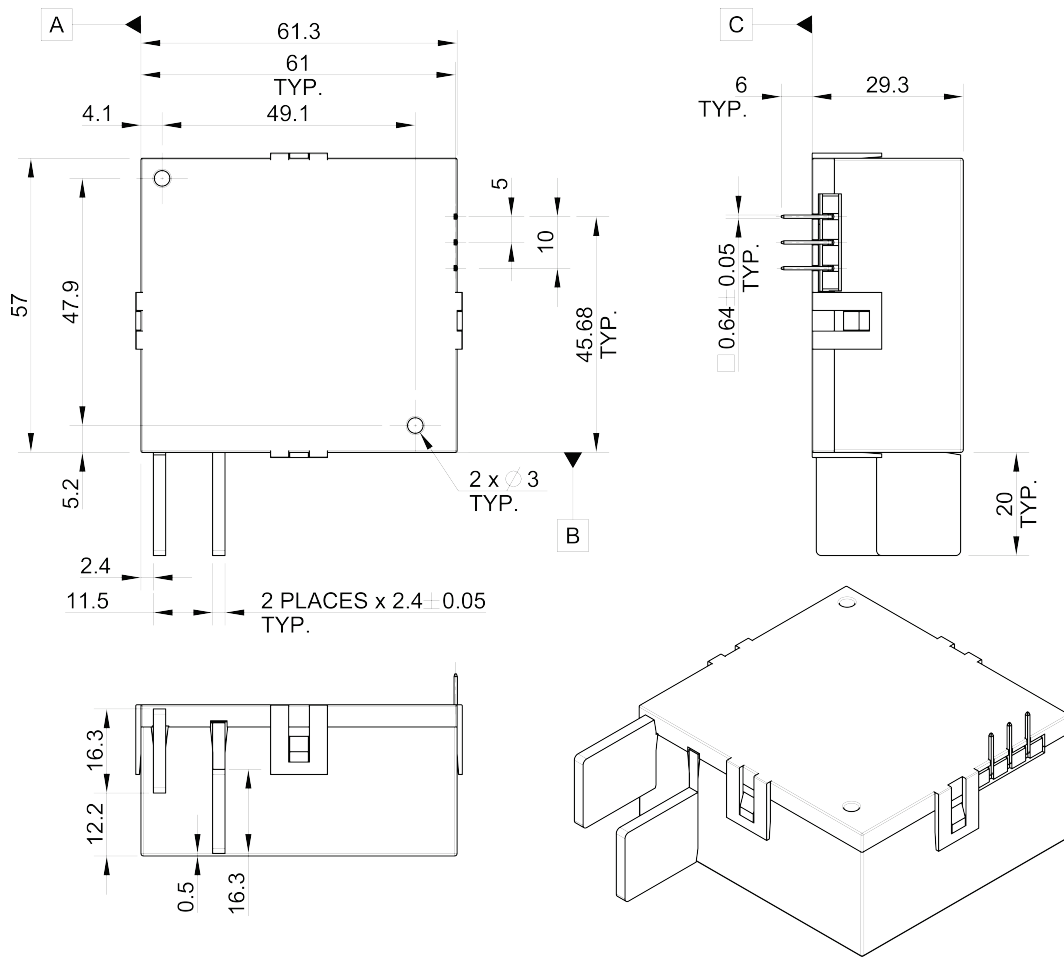
** For custom designs, please contact KG Technologies. Integrated shunts, flex-wire, copper extension and brass terminals available

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

Dimensional Drawings

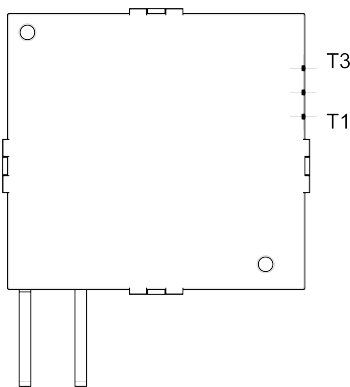
(Unit: mm)

TYPE A CONTACT TERMINALS

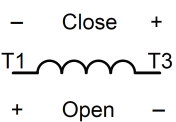


Wiring Diagrams

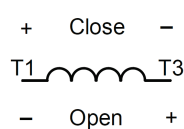
Single Coil



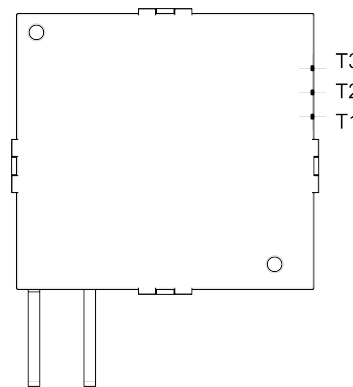
Positive Polarity



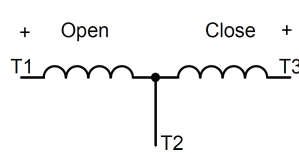
Negative Polarity



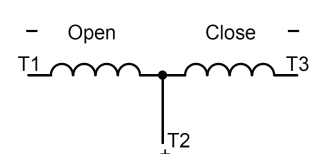
Dual Coil



Positive Polarity



Negative Polarity



Application Notes

1. It is possible that during transit or final assembly the relay could change state. Therefore, it is recommended that all relays be set to the desired state 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 occur).
3. Applying excessive heat to the relay terminals (soldering or welding) can cause damage to the internal structure of the relay and should be avoided.
4. Moving or bending the terminals can cause damage to the internal structure of the relay and should be avoided.
5. For definitions of terms used in this data sheet, see [glossary](#) at www.kgtechnologies.net.



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Scan here for
more information

Disclaimer: This datasheet 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 datasheet.