



**Features**

- 90A latching relay
- According to IEC62055:UC3
- Making current 3000A
- Carrying the 6000A short circuit current
- 4kV dielectric strength (between coil and contacts)
- Environmental friendly product(RoHS Compliant)
- Outline Dimensions:(37.3×31.5×16.5)mm

**CONTACT DATA**

Contact Arrangement	1A,1B
Contact Resistance	2mΩ(1A 24VDC)
Contact Load(Res.)	90A 250VAC
Contact Material	AgSnO <sub>2</sub>
Max. switching current	250VAC
Max. switching voltage	90A
Mechanical life	1×10 <sup>5</sup> ops 300c/min
Electrical life	1×10 <sup>5</sup> ops,2.4sON,9.6sOFF

**COIL**

Coil power	Single coil:1.5W
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**COIL DATA**

Nominal Voltage	Set/Reset Voltage	Pulse Duration ms min.	Coil Res ×(1±10%)Ω
9VDC	≤6.3VDC	≥100	54
12VDC	≤8.4VDC		96
24VDC	≤16.8VDC		384

**CHARACTERISTICS**

Insulation resistance	1000MΩ(500VDC)
Dielectric Strength	Between coil & contacts 4000VAC 1min
	Between open contacts 2500VAC 1min
Creepage distance	8.1mm
Operate time	≤20ms (at nomi.volt.)
Release time	≤20ms (at nomi.volt.)
Vibration Resistance	10Hz~500Hz 60m/s <sup>2</sup>
Shock resistance	Functional: 98m/s <sup>2</sup>
	Destructive: 980m/s <sup>3</sup>
Humidity	98%RH,40℃
Ambient temp.	-40℃~ +80℃
Termination	QC
Unit weight	Approx.52g
Construction	Dust protected

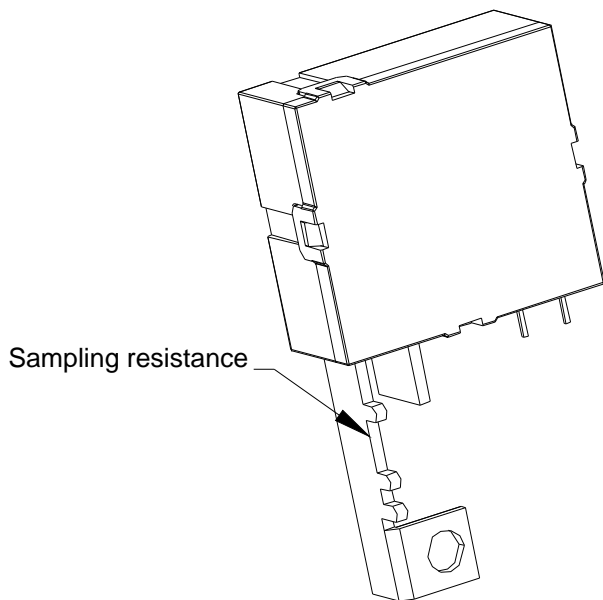
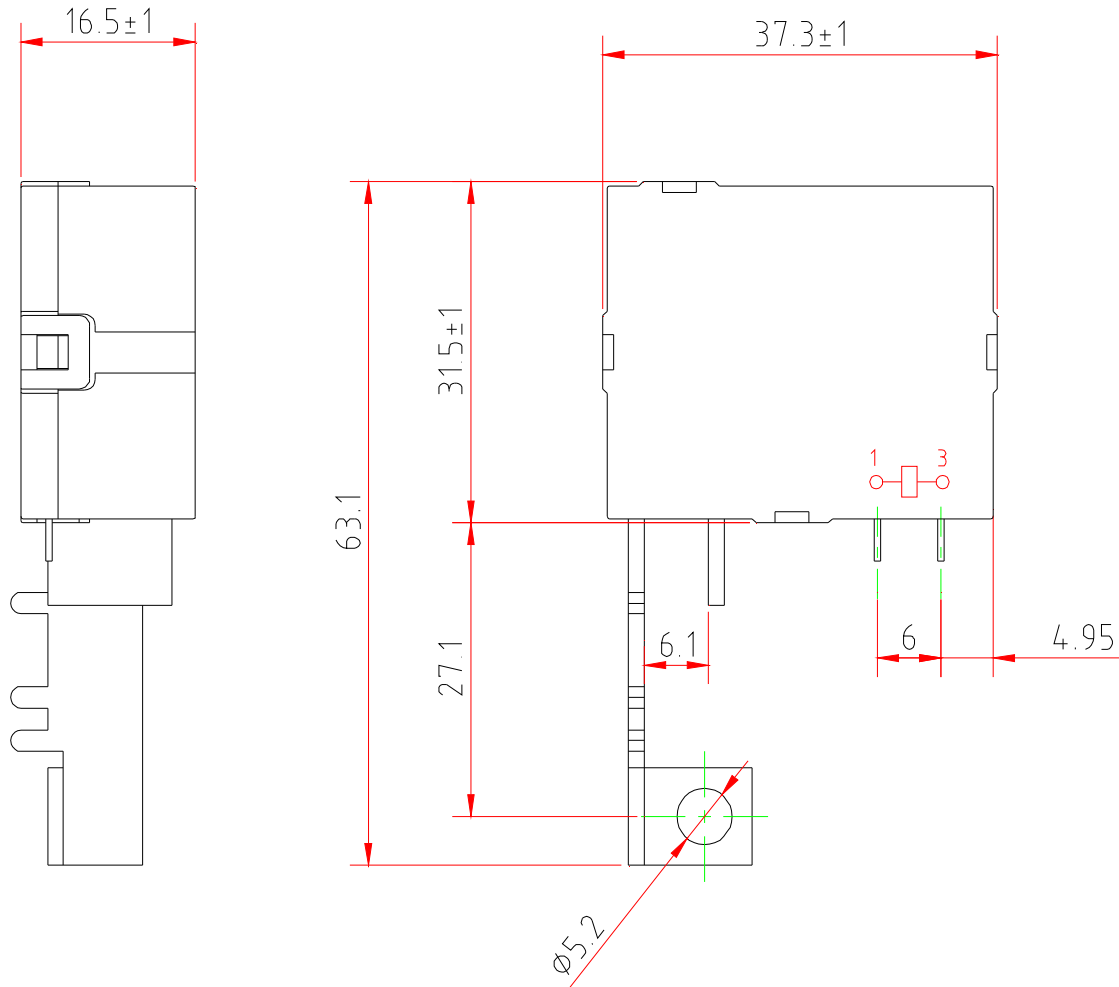
**ORDERING INFORMATION**

	<b>LKK</b>	<b>CB01</b>	<b>-90/</b>	<b>012</b>	<b>-1H</b>	<b>1</b>	<b>R</b>	<b>(XXX)</b>
<b>Company</b>								
<b>Type</b>								
<b>Nominal Current</b>	90:90A							
<b>Nominal Voltage</b>	9,12,24VDC							
<b>Contact form</b>	1H:1 form A 2H:2 form A							
<b>Sort</b>	1:1 coil latching 2:2 coil latching							
<b>Polarity</b>	R:Negative polarity Nil:Positive polarity							
<b>Special code</b>								

OUTLINE DIMENSIONS AND WIRING DIAGRAM

Unit:mm

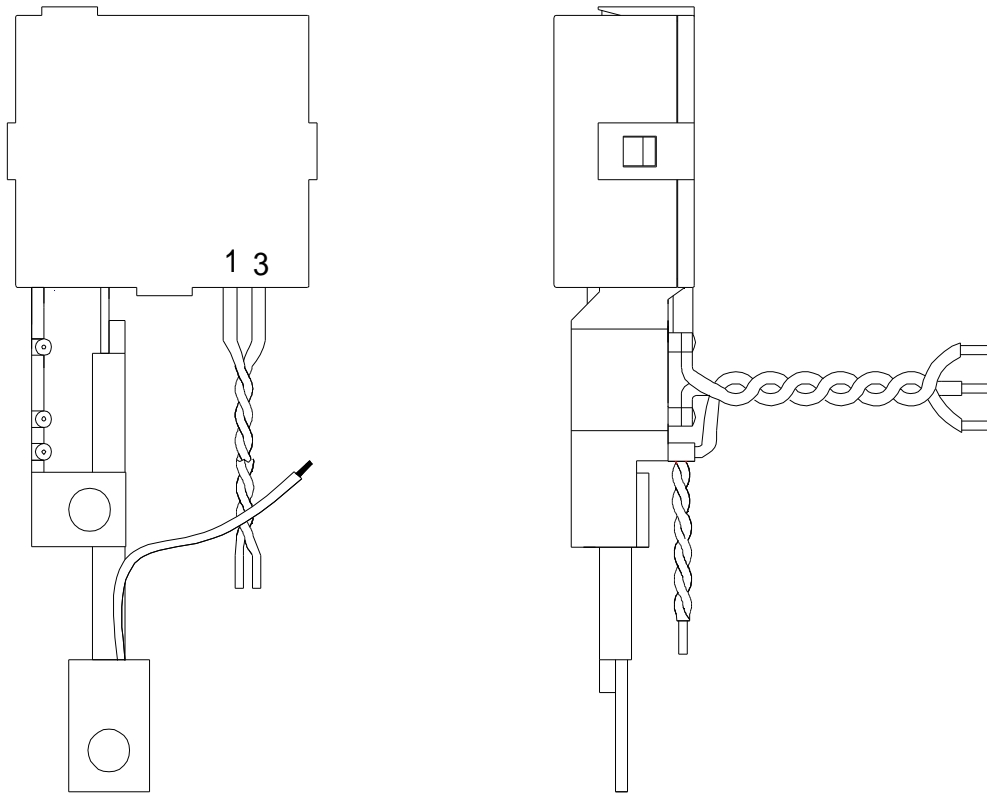
Outline Dimensions



Remark: In case of no tolerance shown in outline dimension: outline dimension  $\leq 1\text{mm}$ , tolerance should be  $\pm 0.2\text{mm}$ ; outline dimension  $> 1\text{mm}$  and  $\leq 5\text{mm}$ , tolerance should be  $\pm 0.3\text{mm}$ ; outline dimension  $> 5\text{mm}$ , tolerance should be  $\pm 0.4\text{mm}$ .

OUTLINE DIMENSIONS AND WIRING DIAGRAM

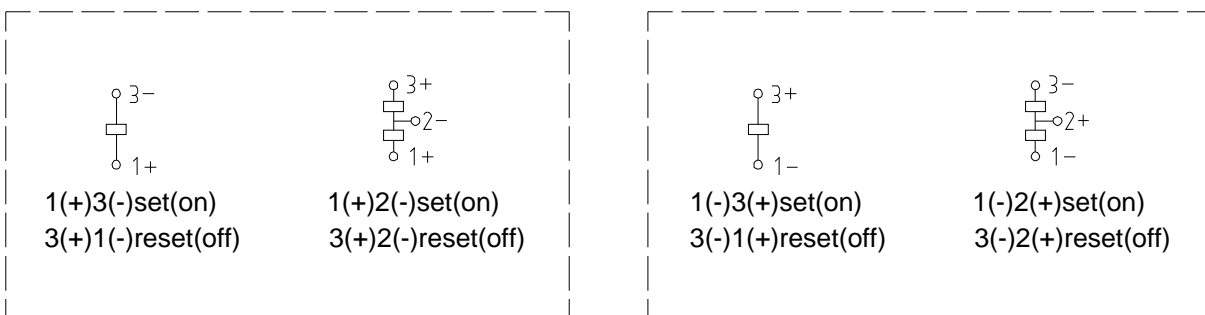
Typical Design



Coil Wiring Diagram

Positive polarity

Negative polarity



Notice

1. Relay is on the "reset" or "set" status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to "set" or "reset" status, therefore, when application (connecting the power supply), please reset the relay to "set" or "reset" status on request.
2. In order to maintain "set" or "reset" status, energized voltage to coil should reach the rated voltage, impulse width should be 5 times more than "set" or "reset" time. Do not energize voltage to "set" coil and "reset" coil simultaneously. And also long energized time (more than 1 min) should be avoided.