



Features

- 80A latching relay
- According to IEC62055-31:UC1,UC2,UC3
- 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	2SH,2SD
Contact Resistance	0.5mΩ(1A 24VDC)
Contact Load(Res.)	80A 277VAC
Contact Material	AgSnO ₂
Max. switching current	440VAC
Max. switching voltage	120A
Mechanical life	1×10 ⁵ ops 300c/min
Electrical life	1×10 ⁴ ops,3.5sON,3.5sOFF

COIL

Coil power	2 coil:≤10W
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COIL DATA

Nominal Voltage	Set/Reset Voltage	Pulse Duration ms min.	Coil Res ×(1±10%)Ω
12VDC	≤9.6VDC	≥100	20.5+20.5

CHARACTERISTICS

Insulation resistance	1000MΩ(500VDC)
Dielectric Strength	Between coil & contacts 4000VAC 1min
	Between open contacts 2500VAC 1min
Creepage distance	11mm
Operate time	≤20ms (at nomi.volt.)
Release time	≤20ms (at nomi.volt.)
Vibration Resistance	10Hz~500Hz 60m/s ²
Shock resistance	Functional: 98m/s ²
	Destructive: 980m/s ³
Humidity	98%RH,40℃
Ambient temp.	-40℃~+80℃
Termination	QC
Shunt resistance	280(±7%)μΩ
Minimum current	10mA
Unit weight	Approx.52g
Construction	Dust protected

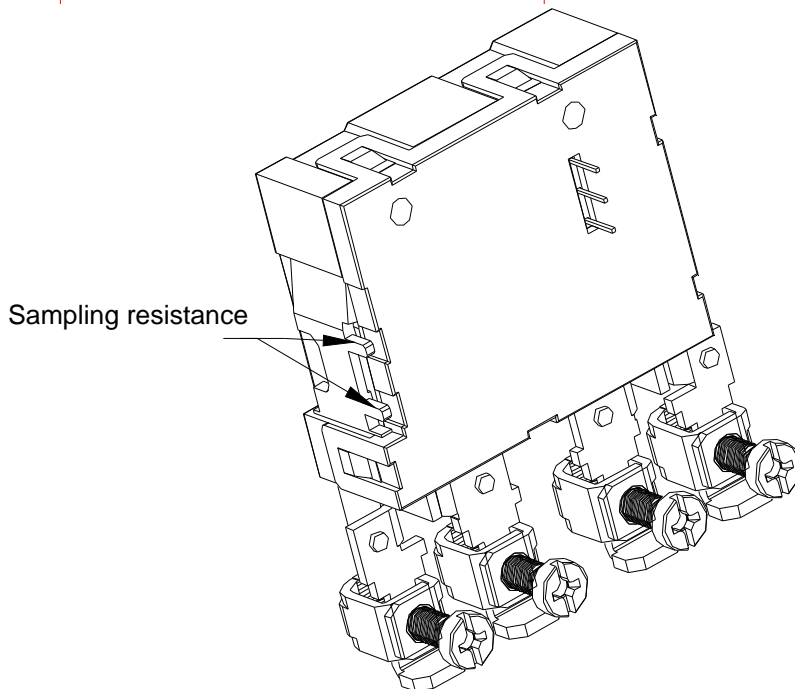
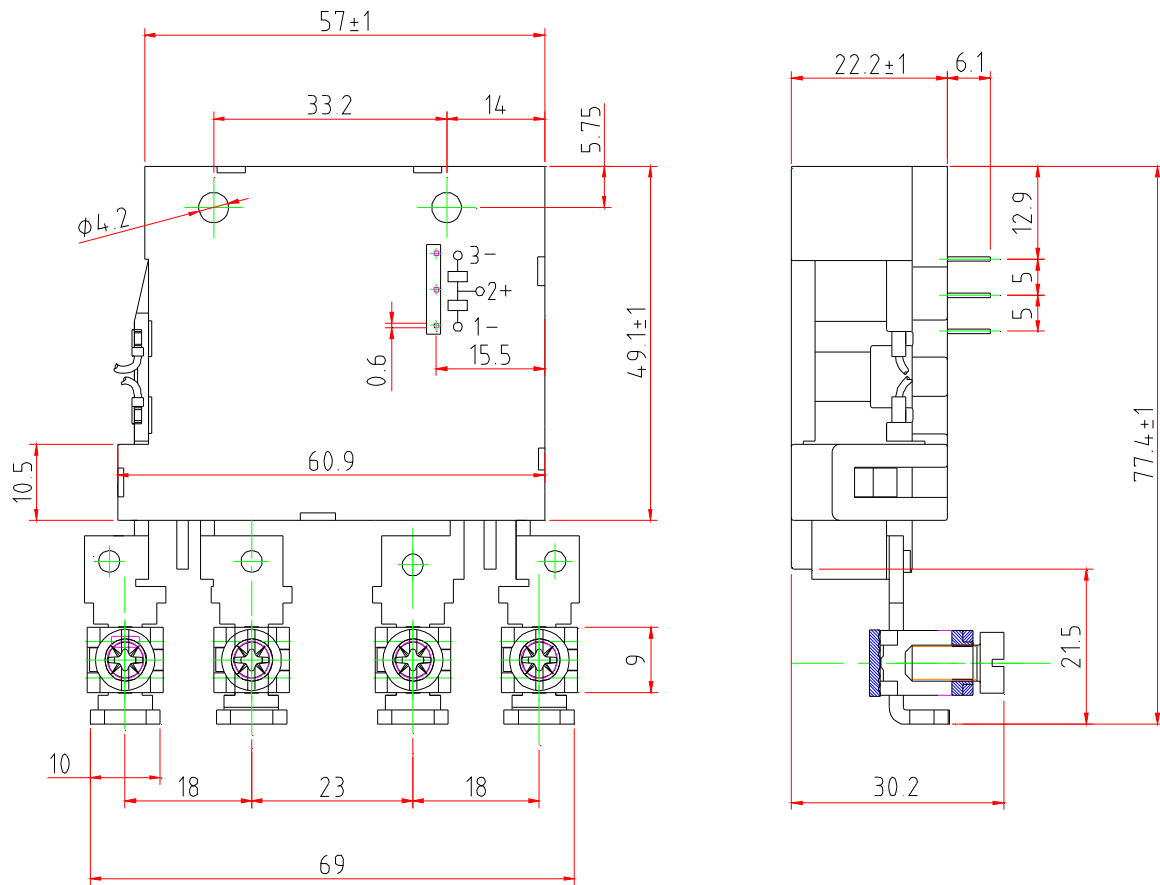
ORDERING INFORMATION

LKK	CB02	-80/	012	-2SH	1	R	(XXX)
Company							
Type							
Nominal Current 80:80A							
Nominal Voltage 12VDC							
Contact form 2SH:2 form A 2SD:2 form B							
Sort 1:1 coil latching 2:2 coil latching							
Polarity R:Negative polarity Nil:Positive polarity							
Special code							

Notes: 1) 2H, 2SH means that relay is on the "reset" status when delivery; 2D, 2SD means that relay is on the "set" status when delivery.If no special required by customer,we will keep the relay on the "set" status when delivery.

- 2) Please make clear your technical requirements, and choose from the following 3 UC ratings:
 UC1: meet the UC1 requirements on IEC62055-31: Carrying test 2400A peak current for 10ms;
 UC2: meet the UC2 requirements on IEC62055-31: Making test:2.5kA/10ms, carrying test 4.5kA/10ms;
 UC3: meet the UC3 requirements on IEC62055-31: Making test:3kA/10ms, carrying test 6kA/10ms.

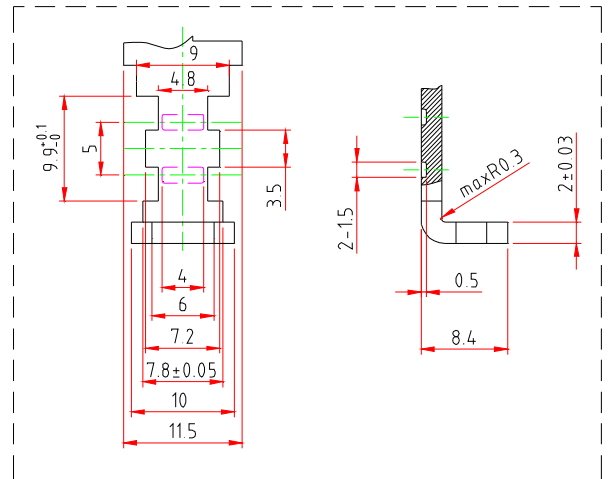
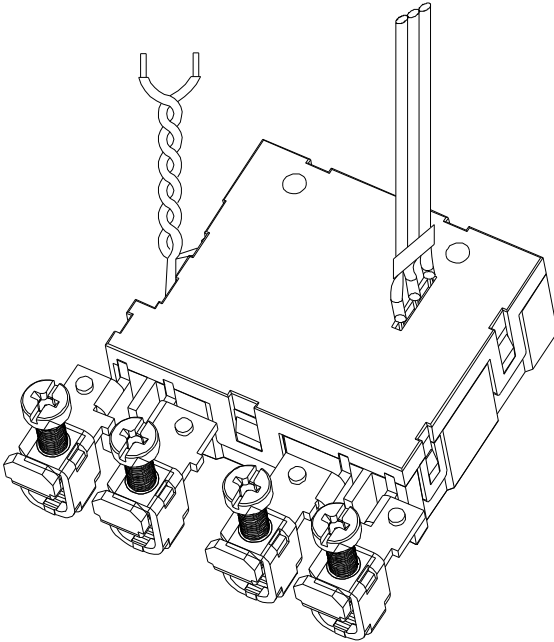
Outline Dimensions



Remark: In case of no tolerance shown in outline dimension: outline dimension ≤ 1 mm, tolerance should be ± 0.2 mm; outline dimension > 1 mm and ≤ 5 mm, tolerance should be ± 0.3 mm; outline dimension > 5 mm, tolerance should be ± 0.4 mm.

OUTLINE DIMENSIONS AND WIRING DIAGRAM

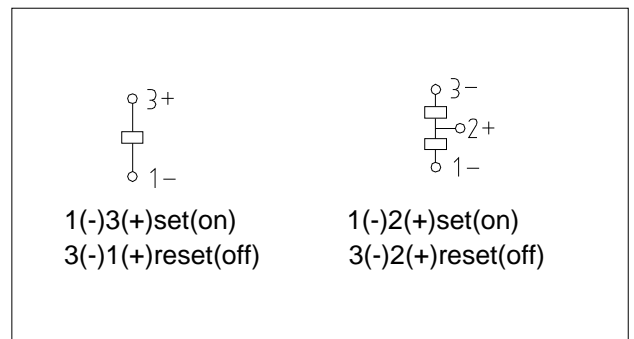
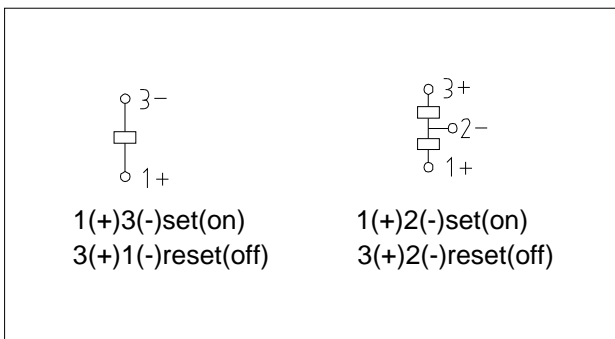
Typical Design



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.