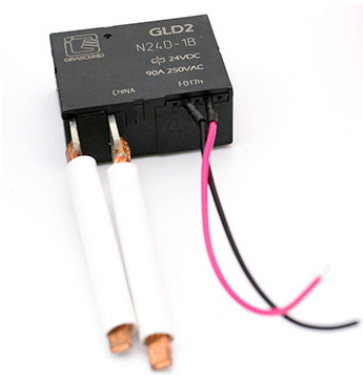


GLDH. POWER LATCH RELAY

FEATURES

- ▶ 38.0 X 30.0 X 16.5(H) MM
- ▶ 90A CONTACT SWITCHING CAPACITY.
- ▶ WITHSTAND 2400A PEAK CURRENT.
- ▶ 8MM CREEPAGE DISTANCE.
- ▶ ROHS COMPLAINT.



CONTACT RATINGS

Contact Form	1B
Contact Resistance	≤1 mΩ (1A 24VDC)
Contact Material	Ag Alloy (AgSnO ₂)
Rated Load	1B
	90A 250VAC 80A 250VAC
Max. Switching Current	90A
Max. Switching Power	22,500VA
Max. Switching Voltage	250VAC
Min. Permissible Load	1A at 6VDC

CHARACTERISTICS

Operate Time	≤ 20ms		
Release Time	≤ 20ms		
Insulation Resistance	1,000MΩ (500VDC)		
Dielectric Strength	I / O	O / O	
	4,000VAC 1 min	1,500VAC 1 min	
Impulse Withstand Current	2400A / 10ms		
Creepage Distance	8mm		
Shock Resistance	Non-energized	Destruction	Malfunction
	100 m/s ² (10G)	1,000 m/s ² (100G)	100 m/s ² (10G)
Vibration Resistance	Destruction		Malfunction
	10 to 55 Hz, (1.5mm double amplitude)		10 to 55 Hz, (1.5mm double amplitude)
Ambient Temperature	Operating: -40°C to 85°C with no icing or condensation		
Ambient Humidity	Operating: 5% to 85%		
Pin Type	Quick Connect Pins		
Weight	Approx. 50.0g		

NOTE: The data shown above are initial values.

COIL DATA

1 Coil	Approx. 1.5W			
Rated Voltage (VDC)	Operate / Release Voltage (VDC)	Pulse Length (ms)	Max. Voltage (VDC) 23°C	Coil Resistance (Ω) ±10%
5	≤3.5	≥50	6.65	16.7
6	≤4.2		7.98	24
9	≤6.3		11.97	54
12	≤8.4		15.96	96
24	≤16.8		31.92	384
48	≤33.6		63.84	1,536
2 Coil	Approx. 3.0W			
Rated Voltage (VDC)	Operate / Release Voltage (VDC)	Pulse Length (ms)	Max. Voltage (VDC)	Coil Resistance (Ω) ±10%
5	≤3.5	≥50	6.65	8.35 + 8.35
6	≤4.2		7.98	12 + 12
9	≤6.3		11.97	27 + 27
12	≤8.4		15.96	48 + 48
24	≤16.8		31.92	192 + 192
48	≤33.6		63.84	768 + 768

LIFE EXPECTANCY DATA

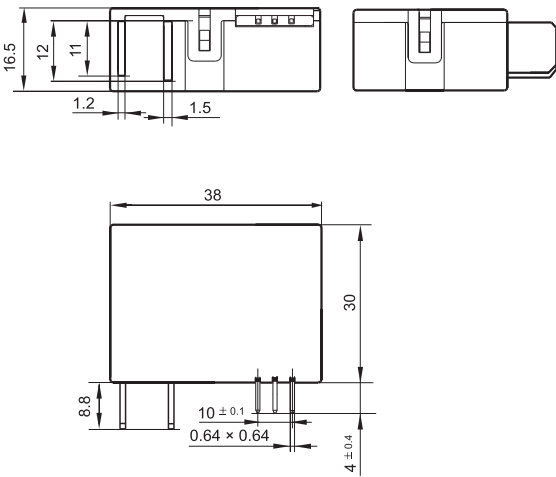
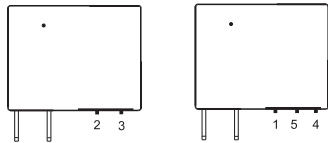
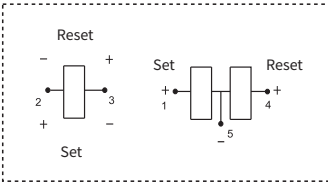
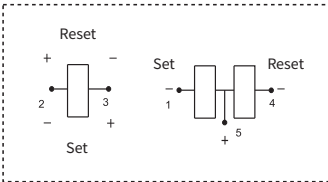
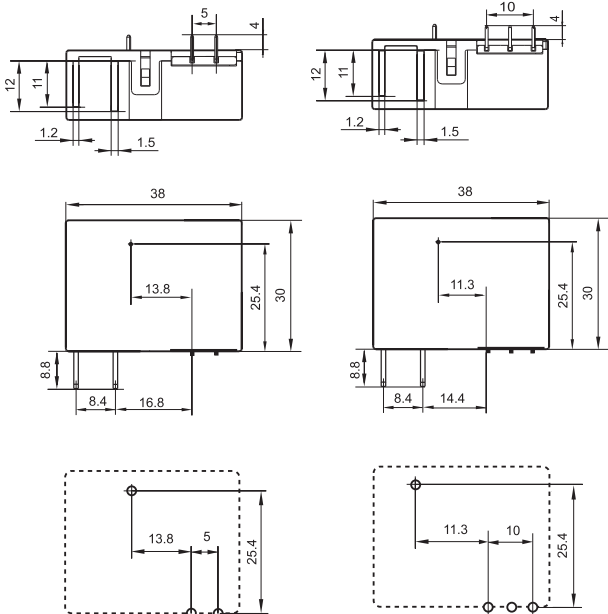
Mechanical Life Expectancy	1,000,000 Operations (300 OPM)
Electrical Life Expectancy	1B
	30,000 Operations (80A 250VAC Resistive Load, 1s ON / 4s OFF)
	10,000 Operations (90A 250VAC Resistive Load, 1s ON / 4s OFF)

NOTE: The electrical life data items shown are possible at 23°C.

ORDERING INFORMATION

Type	Coil Key			Contact Key		Optional Key	Customer Outfit Drawing #
GLDH	/	M	12	D	-	1 B	- R CWR02
							Nil: Positive Polarity; R: Negative Polarity
							Polarity Status
No of Coil	M: 2 Coil; N: 1 Coil					B: 1 Form B	Contact Form
Coil Voltage	XX: Coil Voltage Value					1: Single Pole	NO of Pole
Coil Type	D: DC Coil						

DIMENSIONS

Outline Dimensions	Wiring Diagram	Pin Layout (Bottom View)
1 FORM B TYPE	1 Coil2 Coil	1 FORM B TYPE
	 Positive Polarity  Negative Polarity -R Type 	 1 Coil 2 Coil