

MAIN FEATURE

1. High switching current at 30A (1 Pole) and 25A (2 Poles).
2. Plug-in terminal is available.
3. Both AC and DC coil available.
4. High Dielectric Strength 4,000VAC.
5. Comply with RoHS and REACH regulations.

CONTACT RATING

Load Type	GL-1P (DM/AM)	GL-2P (DM/AM)
Rated Load (Resistive)	30A 250VAC	25A 250VAC
	30A 277VAC	25A 277VAC
Rated Carrying Current	30A	25A
Max. Allowable Voltage	AC 277V	AC 277V
Max. Allowable Current	30A	30A
Max. Allowable Power Force	8,300VA	6,900VA
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	DPST

APPLICATION

Home Appliance, Air Conditioner, Audio Equipment, Domestic Appliances, Controlling Equipment...etc...

PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance 100mΩ Max. @1A,6VDC
- Operate Time 30 mSec. Max.
- Release Time 30 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact 4,000VAC at 50/60 Hz for one minute
 - Between Contacts 2,000VAC at 50/60 Hz for one minute
 - Different Polarity 3,000VAC at 50/60 Hz for one minute
- Surge Strength 10,000V (between Coil & Contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute
 - Mechanical 300 Cycles per Minute

- Temperature Range -25~+60°C
- Humidity Range 45~85% RH.
- Coil Temperature Rise 55°C Max.
- Vibration:
 - Destruction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
 - Malfunction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- Life Expectancy:
 - Mechanical 10⁷ Operations at No Load condition
 - Electrical 10⁵ Operations at Rated Resistive Load
- Weight About 90 g

SAFETY STANDARD & FILE NUMBER

- UL & C-UL E141060 & E175730
- TÜV R50144363

COIL SPECIFICATION (AT 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage	Drop-Out Voltage	Maximum Allowable Voltage
GL DC Coil	6	317	18.9	Abt. 1.90W	75% Maximum	10% Minimum	110%
	9	211	42.6				
	12	158	75.8				
	24	79.0	303				
	48	40.0	1,220				
	60	31.7	1,895				
	100	19.0	5,260				
GL AC Coil	110	17.0	6,400	Abt. 1.7~2.5VA			
	12	142	-				
	24	71.0	-				
	48	34.0	-				
	100~120	17.0 ~ 20.4	-				
	200~240	8.5 ~ 10.2	-				

ORDERING INFORMATION

GL - S - 1 12 D M P F C

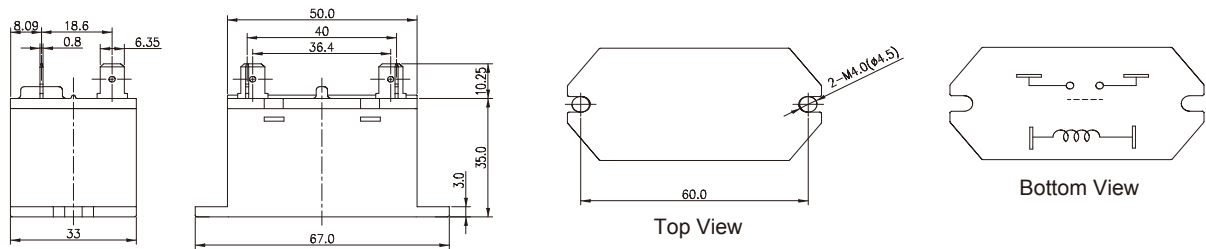
Internal Form: Nil: PC Board
Case Type: C: PC Board + Capacitor for AC model
Terminal Type: Nil: Standard Square Shape
Contact Form: F: Flanged Case
Coil Type: Nil: Plug-in terminal
Coil Voltage: P: PC Board terminal
Number of Pole: M: Form A
Type of Sealing: D: Standard DC
Internal Form: A: Standard AC
Coil Voltage: VDC (06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V, 60: 60V, 100: 100V, 110: 110V)
Number of Pole: VAC (12: 12V, 24: 24V, 48: 48V, 110: 100~120V, 220: 200~240V)
Type of Sealing: 1: One Pole
Internal Form: 2: Two Poles
Case Type: S: RT I Dust Protected
Terminal Type: GL

CLASSIFICATION

Model	GL			
Coil Type	Standard DC		Standard AC	
Number of Pole	1 Pole	2 Poles	1 Pole	2 Poles
Terminal Type	GL-S-1□□DM/DMP	GL-S-2□□DM/DMP	GL-S-1□□AM/AMP	GL-S-2□□AM/AMP
Case Type	GL-S-1□□DM/DMF	GL-S-2□□DM/DMF	GL-S-1□□AM/AMF	GL-S-2□□AM/AMF
Internal Form	NIL	NIL	GL-S-1□□AMPC/AMFC	GL-S-2□□AMPC/AMFC

DIMENSION ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: +0.1mm)

GL-S-1



GL-S-2

