

Specifications

■ Coil Ratings

Rated voltage	5 VDC	9 VDC	12 VDC	24 VDC	48 VDC
Rated current	72 mA	40 mA	30 mA	15 mA	10 mA
Coil resistance	69.4 Ω	225 Ω	400 Ω	1600 Ω	4800 Ω
Must operate voltage	75% max. of rated voltage				
Must release voltage	10% min. of rated voltage				
Max. voltage	130% of rated voltage at 85°C, 170% of rated voltage at 23°C				
Power consumption	360 mW				480mW

Note: The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%.

■ Contact Ratings

Item		Standard model	High capacity (-E) model
Contact material		AgSnO ₂	
Load		Resistive load (cosφ=1)	
Rated load	NO	10A at 250VAC 10A at 24VDC	
	NO/NC	5A/5A at 125VAC 5A/5A at 250VAC	5A/5A at 24VDC 5A/5A at 24VDC
Rated carry current		10A(NO), 5A(NC)	10A
Max. switching voltage		250VAC, 24VDC	
Max. switching current		10A(NO), 5A(NC)	10A
Max. switching power	NO	AC2,500VA, DC240W	
	NO/NC	AC625VA, DC120W	AC1,250VAC, DC120W
Failure rate (reference value)		100 mA at 5 VDC	

Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}/\text{operation}$

■ Characteristics

Contact resistance	100 mΩ max.
Operate time	10 ms max.
Release time	5 ms max.
Max. switching frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)
Insulation resistance	1,000MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC. 1mA 50/60Hz for 1 min between coil and contacts 750 VAC 1mA 50/60Hz for 1 min between contacts of same polarity
Vibration resistance	Destruction: 10 to 55Hz, 1.5mm double amplitude Malfunction: 10 to 55Hz, 1.5mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 100 m/s ² (approx. 10G)
Endurance	Mechanical: 10,000,000 operations min. Electrical: 100,000 operations typical
Ambient temperature	Operating: -40° to 85° (with no icing) Storage: -40° to 85° (with no icing)
Ambient humidity	Operating: 35% to 85% Storage: 35% to 85%
Weight	Approx. 7.5g

Note: Values in the above table are the initial values.

■ **Approved Standards**
UL508 (UL File No. E41643)

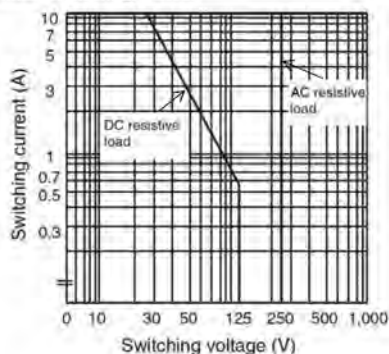
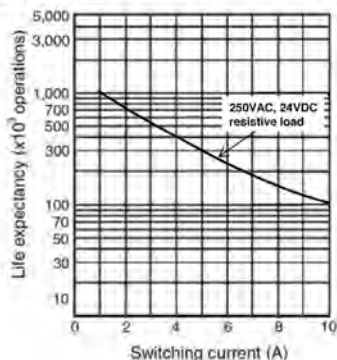
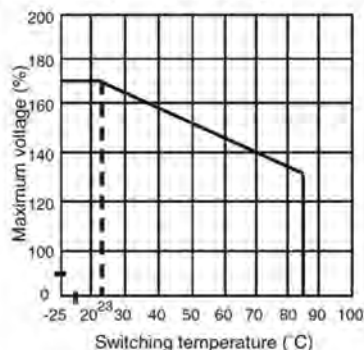
Model	Coil ratings	Contact ratings
G5LA	5 to 48 VDC	NO: 10A, 277VAC, general use, 100,000 cycles 10A, 277VAC, general use, 85°C, 50,000 cycles (-CF model) 15A, 125VAC, general use, 50,000 cycles 1/2Hp, 125VAC 1/2Hp, 250VAC 200W tungsten, 125VAC, 100,000 cycles NC: 10A, 125VAC, resistive 10A, 277VAC, general use, 100,000 cycles (-E model)

EN61810-1 (VDE Reg. No. B652)

Model	Coil ratings	Contact ratings
G5LA	5,6,9,12,18,24,48 VDC	NO: 10A, 250VAC, $\cos\phi=1$, 85°C, 1 sec - flux protection: 50,000 cycles - fully sealed: 10,000 cycles 10A, 250VAC, $\cos\phi=1$, 85°C, 5 sec 12A, 125VAC, $\cos\phi=1$, 85°C, 10,000 NC: 10A, 250VAC, $\cos\phi=1$, 85°C, 25,000 NO/NC: 5A, 250VAC, $\cos\phi=1$, 85°C - flux protection: 50,000 cycles - fully sealed: 10,000 cycles

GB15092.1 (CQC File No. CQC06001015477)

Model	Coil ratings	Contact ratings
G5LA	5,9,12,24,48 VDC	NO: 10A, 250VAC, resistive, 10,000 cycles 12A, 120VAC, resistive, 10,000 cycles NO/NC: 10A, 250VAC, resistive, 10,000 cycles (-E model) 12A, 250VAC, resistive, 10,000 cycles (-E model)

Max. Switching Power**Note:** NO contact**Endurance****Note:** NO contact, Typical value**Ambient Temp. Vs Max. Voltage****Note:** The maximum coil voltage is the maximum value in a varying range of operating power voltages not a continuous voltage**ALL DIMENSIONS SHOWN ARE IN MILLIMETRES.**

To convert millimetres into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.