



HOME APPLICATION RELAY

ETR GL SERIES

■ FEATURES

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

■ SAFETY STANDARD

UL&CUL E141060 UL 508

Model	Load (AgSnO2 contact)	Cycles
GL-1P	30A, 277Vac, 40°C, Resistance	6K
GL-2P	25A, 277Vac, 40°C, Resistance	6K

UL&CUL E175730 UL508(Motor Controllers, Magnetic)

Model	Load (AgSnO2 contact)	Cycles
GL-1P	30FLA, 120LRA, 250Vac, HorsePower, 40°C	1K
GL-2P	25FLA, 100LRA, 250Vac, HorsePower, 40°C	1K

TUV R50144363 IEC61810-1

Model	Load(AgSnO2 contact)	Cycles
GL-1P	30A, 250Vac, 60°C, cosφ=1	100K
	30A, 250Vac, 60°C, cosφ=0.4	100K
GL-2P	25A, 250Vac, 60°C, cosφ=1	100K
	25A, 250Vac, 60°C, cosφ=0.4	100K

■ SPECIFICATIONS(AT INITAIL VALUE)

Contact Resistance	100 mΩ Max. @1A, 6VDC
Operate Time	30 mSec. Max.
Release Time	30 mSec. Max.
Dielectric Strength	Between Coil & Contact: 4,000VAC at 50/60Hz for one minute Between Contacts: 2,000VAC at 50/60Hz for one minute Different Polarity: 3,000VAC at 50/60Hz for one minute
Surge Strength	10,000V (between coil &contact 1.2x50μSec.)
Insulation Resistance	100MΩ Min. at 500VDC
Max. On/OFF Switching	Electrical: 6 cycles per Minute Mechanical: 300 cycles per Minute
Temperature Range	-25°C~+60°C
Humidity Range	45~85%RH
Coil Temperature Range	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, 0.75mm single amplitude(1.5mm double amplitude)
Shock	Destruction: 1,000 m/s ² Malfunction: 100 m/s ²
Mechanical Life	10 ⁷ operations at no load condition.
Weight	About 90g



*Rely on ECE's Relays,
and You Always Relax!*

■ COIL SPECIFICATION AT 20°C

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (Ma)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
GL DC Coil	6	317	18.9	Abt. 1.9W	75% Max.	10% Min.	110%
	9	211	42.6				
	12	158	75.8				
	24	79	303				
	48	40	1,220				
	60	31.7	1,895				
	100	19	5,260				
	110	17	6,400				
GL AC Coil	12	142	-	Abt. 1.7~2.5VA	75% Max.	10% Min.	110%
	24	71	-				
	48	34	-				
	100~120	17~20.4	-				
	200~240	8.5~10.2	-				

■ PART NUMBER SYSTEM

ETR - GL - S - 1 12 D M P F C Z

Z: RoHS Compliant

Internal Form

Nil: PC Board

C: PC Board+Capacitor for AC model

Case Type

Nil: Standard Square Shape

F: Flanged Case

Terminal Type

Nil: Plug-in Terminal

P: PC Board Terminal

Contact Form

M: One Form A

Coil Type

D: Standard DC Coil

A: Standard AC Coil

Coil Voltage

DCV: 06: 6V, 09: 9V, 12: 12V, 24: 24V

48: 48V, 60: 60V, 100: 100V, 110: 110V

ACV: 12: 12V, 24: 24V, 48: 48V,

110: 100~120V, 220: 200~240V

Number of Pole

1: One Pole

2: Two Poles

Type of Sealing

S: Hand Solder Type

Model Name: GL

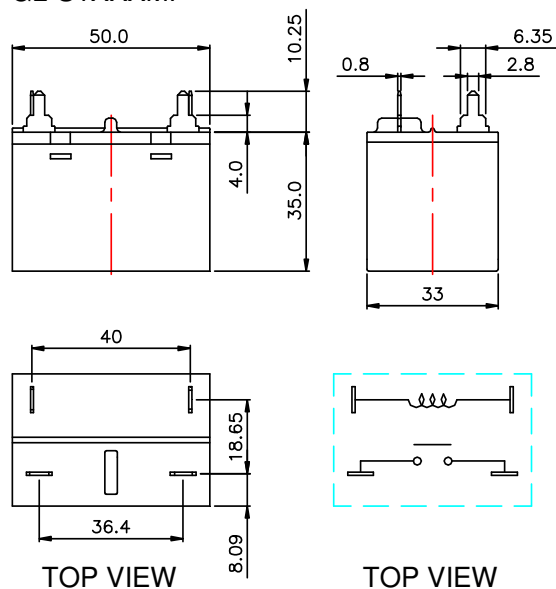
Series Name: ETR

***Marking without: "ETR" & "Z".**

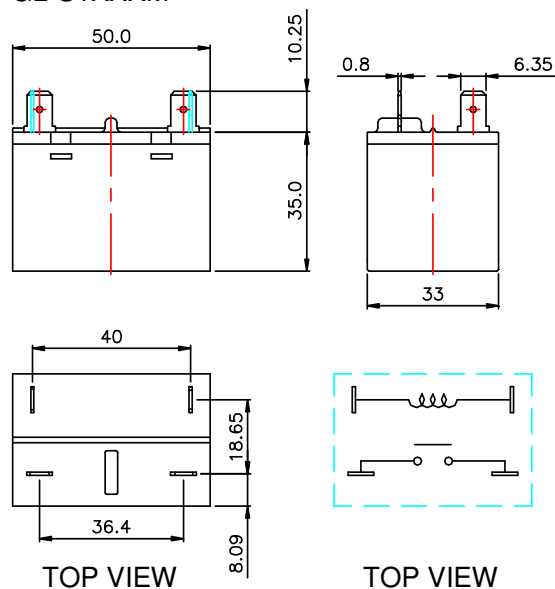


DIMENSIONS ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

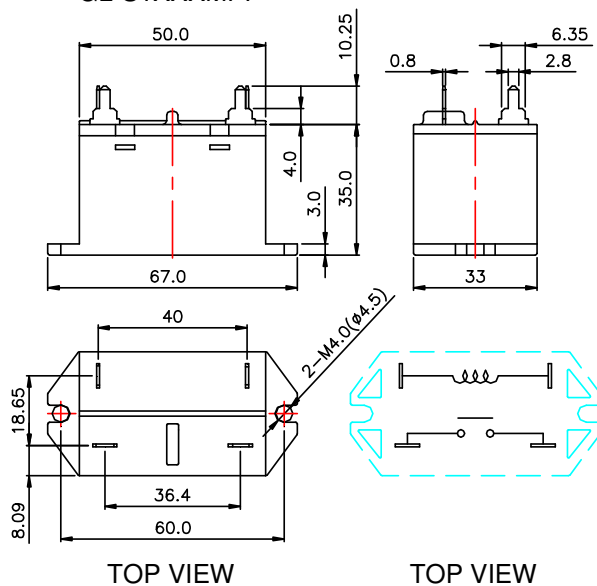
ETR GL-S1
GL-S1XXXMP



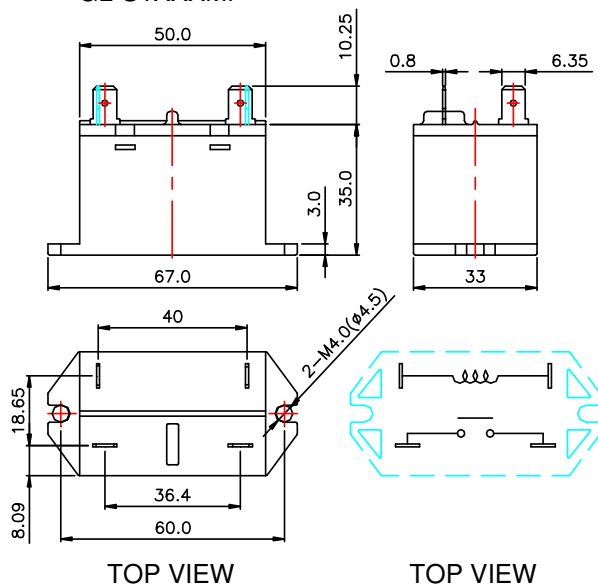
GL-S1XXXM



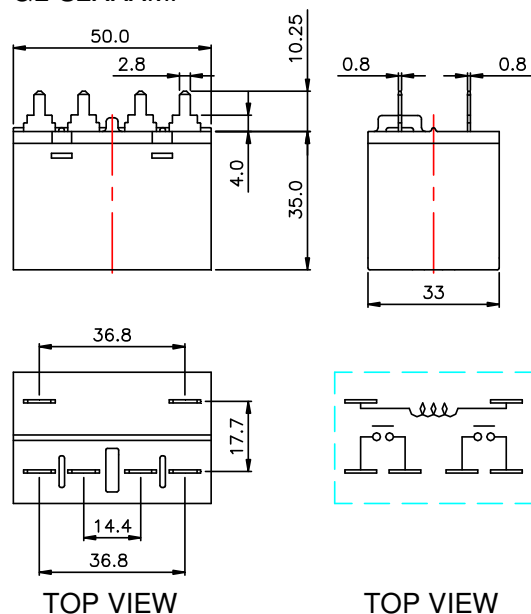
ETR GL-S1-F
GL-S1XXXMPF



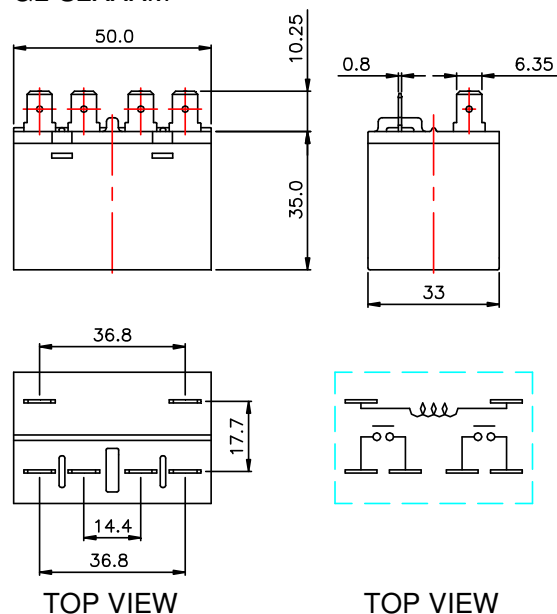
GL-S1XXXMF



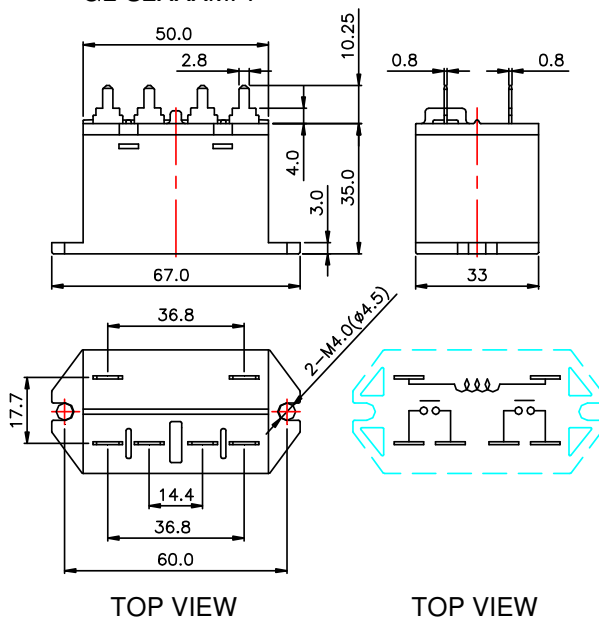
ETR GL-S2
GL-S2XXXMP



GL-S2XXXM



ETR GL-S2-F
GL-S2XXXMPF



GL-S2XXXMF

