

GENERAL CONTROL RELAY
ETR GZR SERIES

■FEATURES

- 8mm clearance and creepage distance.
- Slim size with high capacity up to 25A.
- Dielectric Strength 5,000 VAC. Surge resistance (7000V).
- Class F insulation system.
- Halogen free series available.
- Comply with RoHS and REACH regulations.

■SPECIFICATIONS

Contact Resistance		Max. 100mΩ at initial value. @1A,6VDC
Contact Capacity	GZR (LM/DM)	20 Amps at 277VAC Cosφ=1 20 Amps at 30VDC L/R=0 1HP 250VAC TV-10 120VAC
	GZR (L/D)	20 Amps at 277 VAC Cosφ=1. (N/O) 16 Amps at 277 VAC Cosφ=1. (N/C) 20 Amps at 30 VDC L/R=0. (N/O) 16 Amps at 30 VDC L/R=0. (N/C) 1HP 250VAC TV-10 120VAC (N/O)
Operate Time		15m Sec. Max.
Release Time		5m Sec. Max.
Dielectric Strength		Between coil & Contact: 5000VAC at 50/60Hz for one minute Between Contacts: 1000VAC at 50/60Hz for one minute
Insulation Resistance		1000MΩ Min. at 500VDC

■COIL SPECIFICATION AT 20℃

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
GZR D/DM	3	240	13	Abt. 0.72	70% Max.	15% Min.	130%
	5	144	36				
	6	120	50				
	9	80	112.5				
	12	60	200				
	15	48	313				
	18	40	450				
	24	30	820				
	48	15	3,300				

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
GZR L/LM	3	176.7	17	Abt. 0.53	70% Max.	15% Min.	130%
	5	106	47				
	6	88.3	68				
	9	58.8	155				
	12	44.2	275				
	15	35.3	425				
	18	29.4	612				
	24	22.08	1,100				
	48	11.04	4,170				

■PART NUMBER SYSTEM

ETR GZR - SH - 1 12 D M F Z

- Z:RoHS Compliant
- Insulation System:
  Nil: Standard Class
  F: F Class
- Contact Form:
  Nil:One Form C
  M:One Form A
- Coil Type:
  D:Standard DC Coil
  L: High Sensitivity DC Coil
- Coil Voltage:
  03:3V, 05:5V, 06:6V, 09:9V, 12:12V,
  15V:15V, 18:18V, 24:24V, 48:48V
- Number of Poles:
  1: One Pole
- Type of Sealing:
  S: Dust Protected Relays
  SS: Flux Proofed Relays
  SH: Wash Tight Relays
- Model Name: GZR
- Series Name: ETR

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

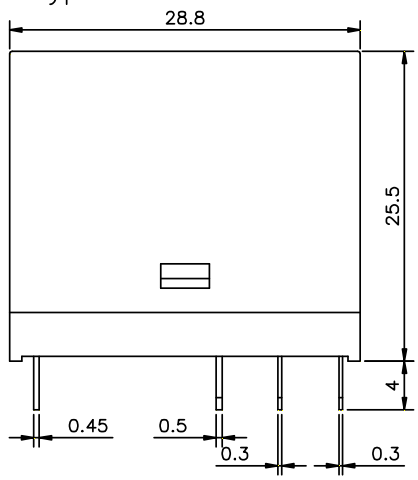
ETR GZR-S-112L



■DIMENSIONS (≦5mm±0.2mm, ＞5mm±0.3mm, the tolerance of PCB thru hole: +0.1mm)

ETR GZR

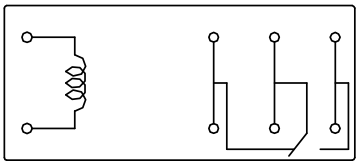
S type



One Form A

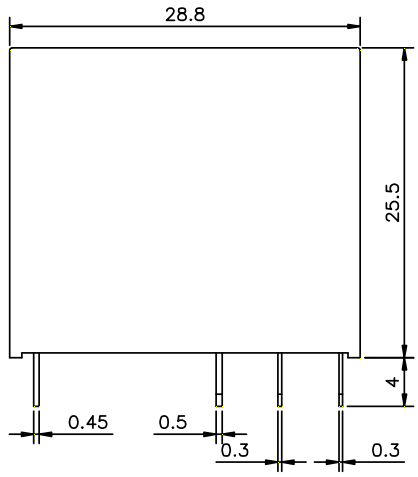


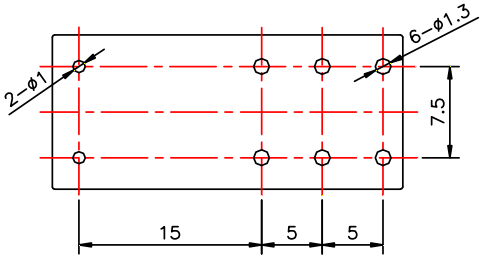
One Form C



BOTTOM VIEW

SS/SH type





P.C.B. LAYOUT