

AUTOMOTIVE RELAY ETR GRL SERIES

FEATURES

- New 54A version with Class F insulation
- 40A switching use relay at ambient temperature of 80℃.
- Compatible plug-in terminal available.
- Metal or plastic bracket selection.
- Standard type contact form SPDT and DPST available for customer's selection.
- Operating ambient temperature range covers from -40℃ to +125℃.
- Comply with RoHS, REACH and ELV regulations.
- Safety standard & File number: Only DM1F :UL&C-UL E141060 / TUV R50406275

SPECIFICATIONS				
Contact Resistance	Max. 100mΩ at initial value. @1A,6VDC			
Contact Capacity	GRL D/DM/DB: N.O. Contact: 40 Amps at 12VDC L/R=0 N.C. Contact: 30 Amps at 12VDC L/R=0 GRL-2P(DM): 40 Amps (20 Ampsx2) at 12VDC L/R=0			
	GRL (DM1F): 54A at 30VDC L/R=0			
Operate Time	10m Sec. Max. 20m Sec. Max. (DM1F)			
Release Time	10m Sec. Max.			
Dielectric Strength	Between coil & Contact: 1000VAC at 50/60Hz for one minute 1600VAC at 50/60Hz for one minute (DM1F) Between Contacts: 500VAC at 50/60Hz for one minute			

100M Ω Min. at 500VDC

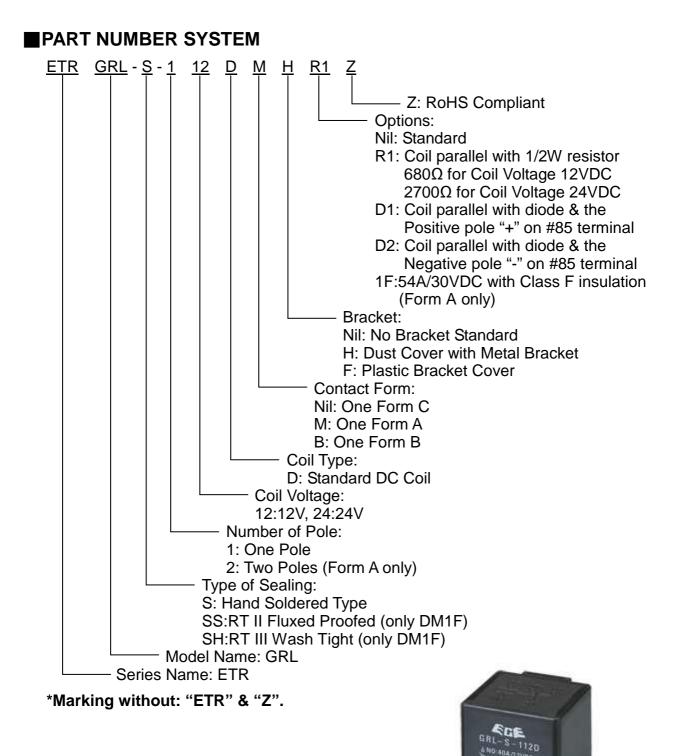
SPECIFICATIONS

Insulation Resistance

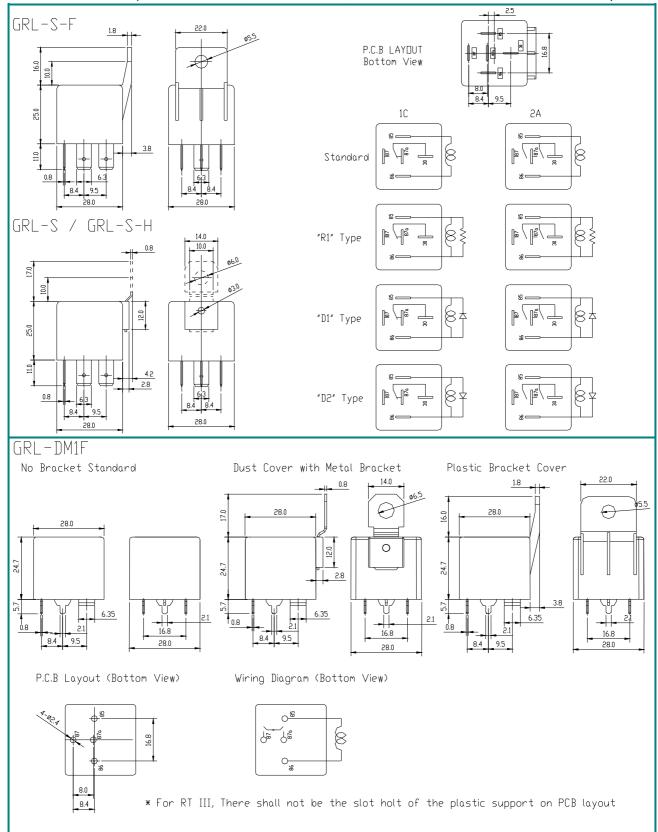
Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
GRL	12	150	80	Abt. 1.8	75% Max.	5% Min.	150% (for short time carrying current)
	24	75	320				
GRL (DM1F)	12	100	120	- Abt. 1.2	80% Max.	5% Min.	150% (for short time carrying current)
	24	50	480				

2000VAC at 50/60Hz for one minute (DM1F)









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

3