



## GENERAL CONTROL RELAY ETR LR SERIES

### ■ FEATURES

- 5mm slim size with 8A rated load.
- 170mW low power consumption.
- Dielectric Strength up to 4,000VAC and Surge Strength reached 6,000V.
- 8mm creepage and clearance safety distance.
- UL Class F insulation available.
- Halogen Free series available.
- Comply with RoHS and REACH regulations.

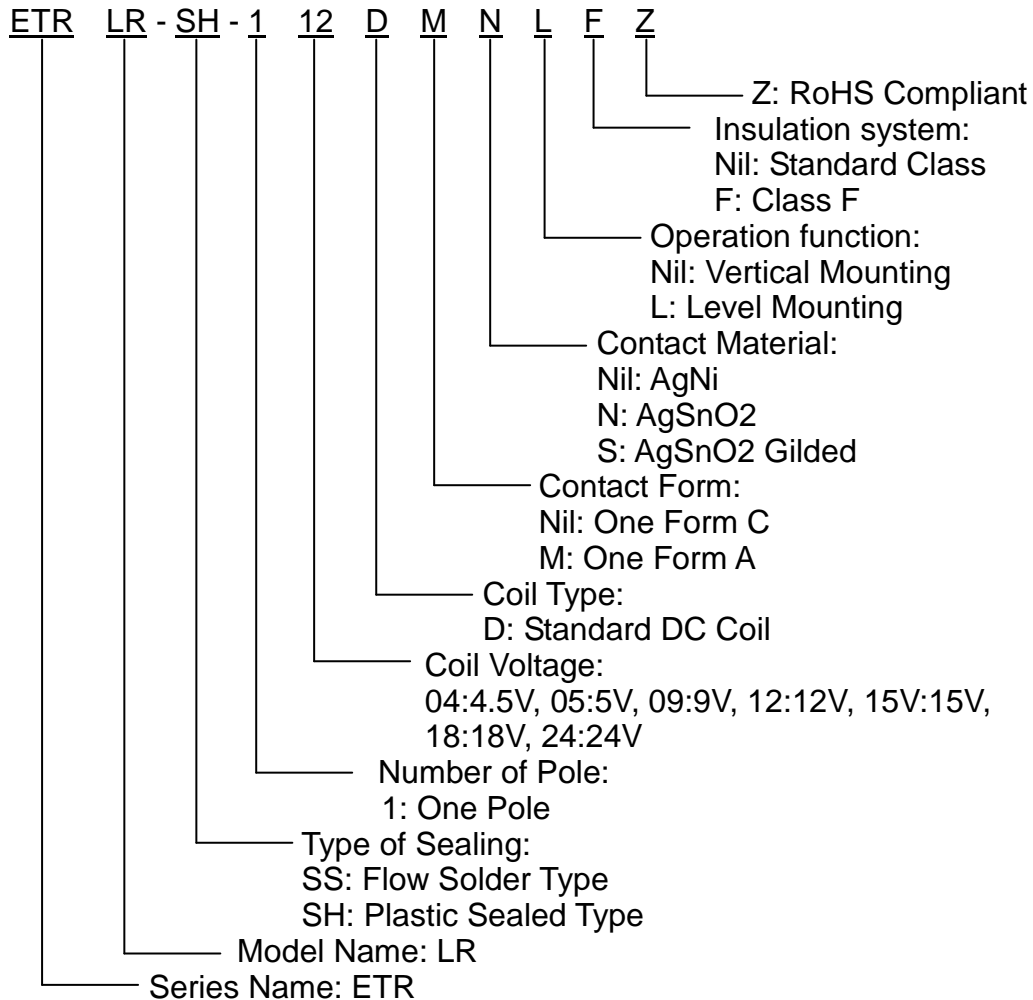
### ■ SPECIFICATIONS

Contact Resistance	Max. 100mΩ at initial value. @1A,6VDC
Contact Capacity	8 Amps at 277 VAC Cosφ=1. 8 Amps at 30 VDC L/R=0.
Operate Time	8m Sec. Max.
Release Time	4m Sec. Max.
Dielectric Strength	Between coil & Contact: 4000VAC at 50/60Hz for one minute Between Contacts: 1000VAC at 50/60Hz for one minute
Insulation Resistance	100MΩ Min. at 500VDC

### ■ COIL SPECIFICATION AT 20°C

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)
LR	4.5	37	121	Abt. 0.17	70% Max.	5% Min.	150%
	5	34	147				
	9	18.8	476				
	12	14.2	847				
	15	11.3	1,323				
	18	9.4	1,905				
	24	7.1	3,388				

## ■ PART NUMBER SYSTEM



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

**ETR LR-SH-105D-L**



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

