



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.
- Safety standard & File number: UL&C-UL E141060 & E175730 / VDE 40029874

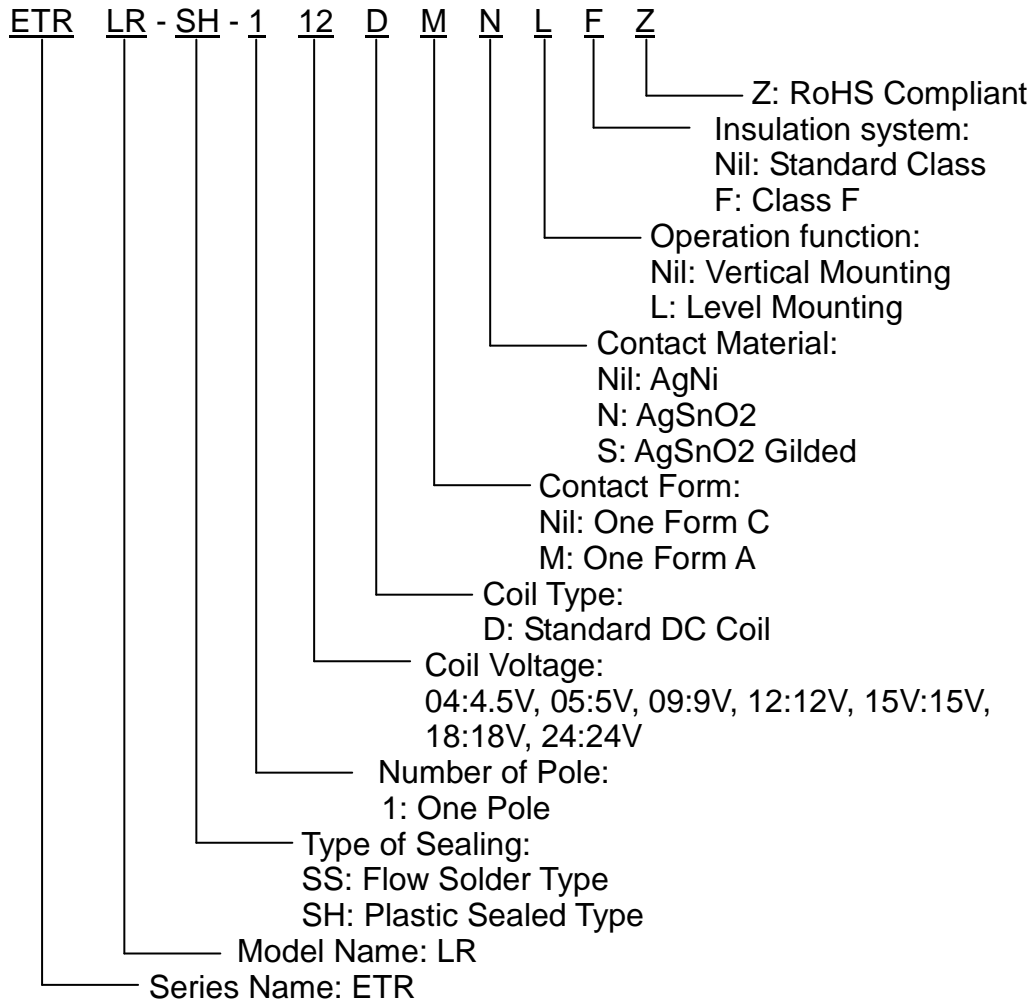
■ SPECIFICATIONS

| | |
|-----------------------|--|
| 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: $+0.1\text{mm}$)

