



# AUTOMOTIVE RELAY

## ETR ZEM SERIES

### ■ FEATURES

- Designed for 30A switching load to comply with automotive system use.
- Compatible plug-in terminal available.
- Standard type contact form SPDT and SPST are available for customer's selection.
- Operating ambient temperature range from -40°C to +125°C.
- Comply with RoHS, REACH and ELV regulations.
- Safety standard & File number: NIL

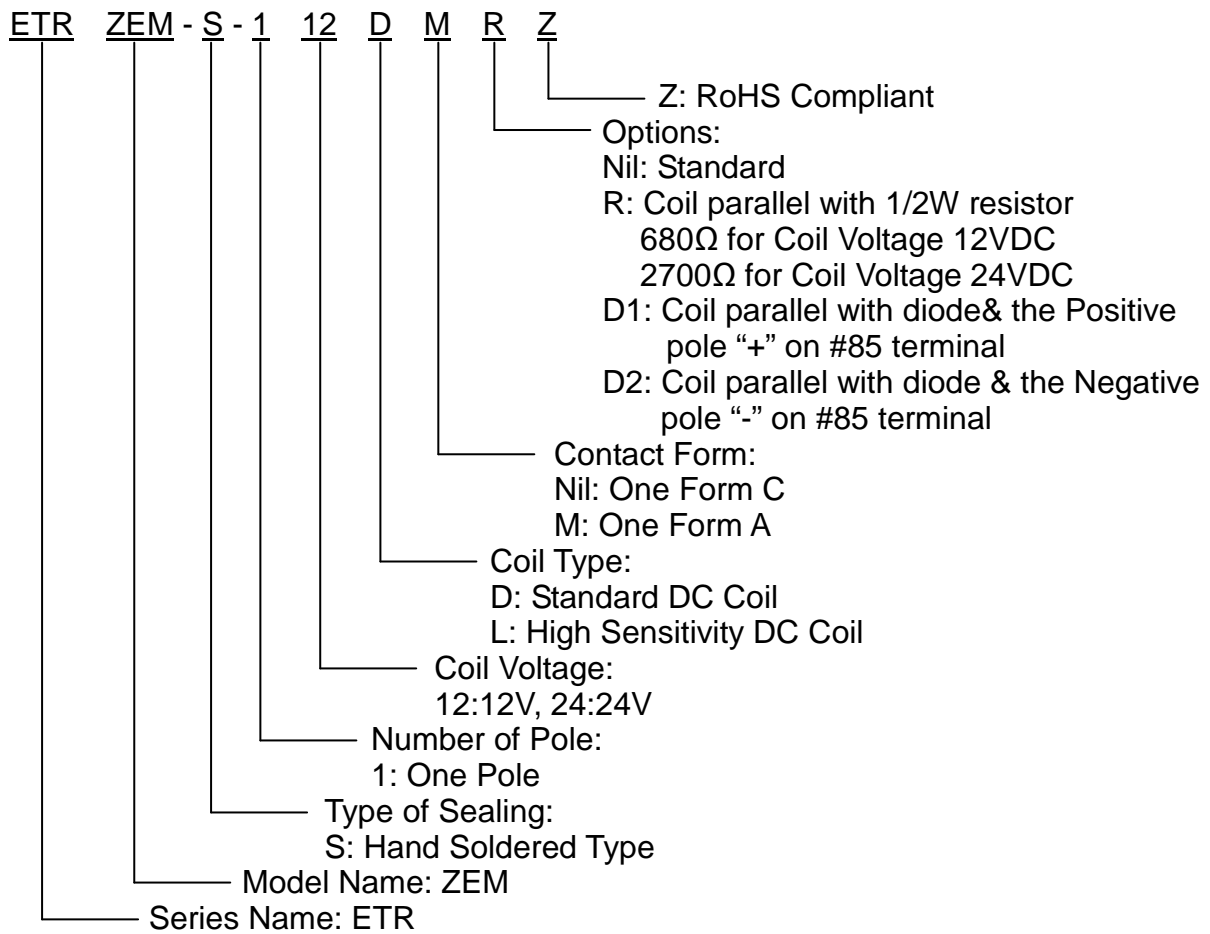
### ■ SPECIFICATIONS

Contact Resistance	Max. 100mΩ at initial value. @1A,6VDC
Contact Capacity	D/L: NO: 30 Amps at 12 VDC L/R=0 15 Amps at 24 VDC L/R=0 NC: 20 Amps at 12 VDC L/R=0 10 Amps at 24 VDC L/R=0 DM/LM: 30 Amps at 12 VDC L/R=0 15 Amps at 24 VDC L/R=0
Operate Time	10m Sec. Max.
Release Time	10m Sec. Max.
Dielectric Strength	Between coil & Contact: 500VAC at 50/60Hz for one minute Between Contacts: 500VAC 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)
ZEM-D	12	133	90	Abt. 1.6	8	1.2	130%
	24	67	360		16	2.4	
ZEM-L	12	100	120	Abt. 1.2	8	1.2	130%
	24	50	480		16	2.4	

## ■ PART NUMBER SYSTEM



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

**ETR ZEM-S-112D**



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

