



**Rely on ECE's Relays,
and You Always Relax!**

GENERAL CONTROL RELAY ETR EML SERIES

■ FEATURES

- High switching current at 16A in small size.
- 1 N/O contact with a Tungsten pre-make contact.
- Dielectric Strength up to 5,000VAC.
- 1 pole 16 A, 1 NO contact (W pre-make contact + AgSnO₂).
165 A / 20 ms inrush peak current.
- Comply with RoHS and REACH regulations.
- Safety standard & File number: UL&C-UL E141060

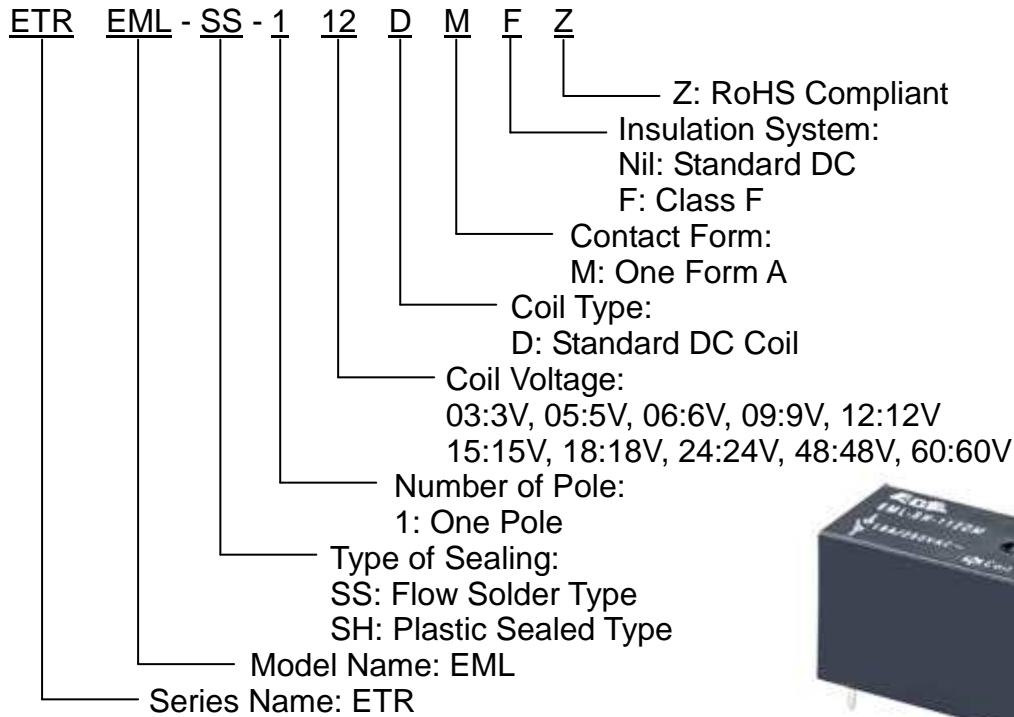
■ SPECIFICATIONS

Contact Resistance	Max. 100mΩ at initial value. @1A,6VDC
Contact Capacity	16 Amps at 277VAC Cosφ=1 Tungsten Load: 3000W/230VAC
Operate Time	10m 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	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)
EML DC Coil	3	130	23	Abt. 0.40	75% Max.	10% Min.	130%
	5	80	63				
	6	67	90				
	9	44	203				
	12	33	560				
	15	27	563				
	18	22	810				
	24	17	1440				
	48	8	5760				
	60	7	9000				

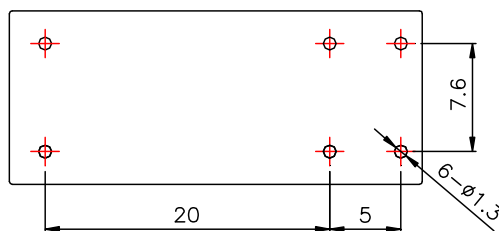
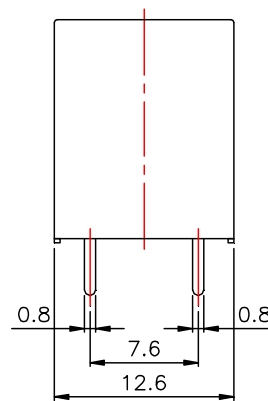
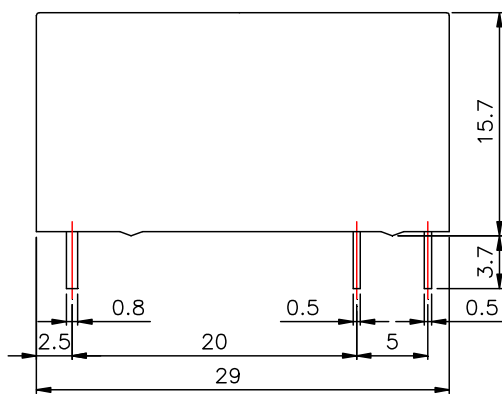
■ PART NUMBER SYSTEM



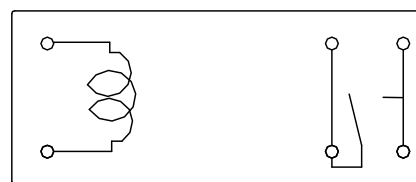
*Marking without: "ETR" & "Z".

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

ETR EML-SS/SH



P.C.B LAYOUT



One Form A

BOTTOM VIEW