

GENERAL CONTROL RELAY

ETR JE SERIES

■ FEATURES

- Low coil power consumption 200mW.
- Dielectric Strength up to 4,000VAC.
- Low profile 10.5 mm.
- Clearance and creepage more than 5.0 mm.
- UL Class F insulation available.
- In accordance with IEC 60730-1.
- Halogen Free series available.
- 3-in-1 combo available with THR reflow solderable + Halogen Free + IEC 60335-1 GWT Compliance.
- Comply with RoHS and REACH regulations.

■ SAFETY STANDARD

UL&CUL E141060 UL 508

Model	Load	Cycles
JE- D	NO/NC(AgNi& AgSnO ₂ contact)	6K
	5A, 250Vac, cosφ=1, 40°C	6K
JE-DB	5A, 30Vdc, 40°C, L/R=0	6K
	5A, 250Vac, cosφ=1, 40°C	6K
JE-DM	5A, 30Vdc, 40°C, L/R=0	6K
	8A, 250Vac, cosφ=1, 40°C	6K
JE- D	8A, 30Vdc, 40°C, L/R=0	6K
	NO/NC (AgNi contact) :	
JE-DM	5A, 250Vac, cosφ=1, 85°C	10K
	5A, 250Vac, 85°C, General Use	6K
	NO(AgNi contact) :	
	Polit Duty B300/R300, 85°C	6K

VDE 40013405 IEC 61810-1

Model	Load	Cycles
JE- D	NO/NC (AgNi contact) :	
	5A, 250Vac, 85°C, cosφ=1	5K
JE- DM	NO(AgNi contact)	
	8A, 250Vac, 85°C, cosφ=1	25K
JE- DN	NO/NC (AgSnO ₂ contact) :	
	5A, 250Vac, 85°C, cosφ=1	10K
JE- DMN	NO (AgSnO ₂ contact) :	
	8A, 250Vac, 85°C, cosφ=1	15K

■ SPECIFICATIONS(AT INITIAL VALUE)

Contact Resistance	100 mΩ Max. @1A,6VDC
Operate Time	8 mSec. Max.
Release Time	6 mSec. Max.
Dielectric Strength	Between Coil & Contact: 4000VAC at 50/60Hz for one minute Between Contacts: 1000VAC at 50/60Hz for one minute
Surge Strength	10,000V (between coil &contact 1.2x50μSec.)
Insulation Resistance	100MΩ Min. at 500VDC
Max. On/OFF Switching	Electrical: 6 Cycles per Minute Mechanical: 300 Cycles per Minute
Temperature Range	-40°C~+85°C
Humidity Range	45~85%RH
Coil Temperature Range	40°C Max.
Vibration	Destruction: 10 to 55 to 10 Hz, 0.75 mm single amplitude(1.5mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.75 mm single amplitude(1.5mm double amplitude)
Shock	Destruction: 1,000 m/s ² Malfunction: 100 m/s ²
Mechanical Life	10 ⁷ operations at no load condition.
Weight	About 4.5g

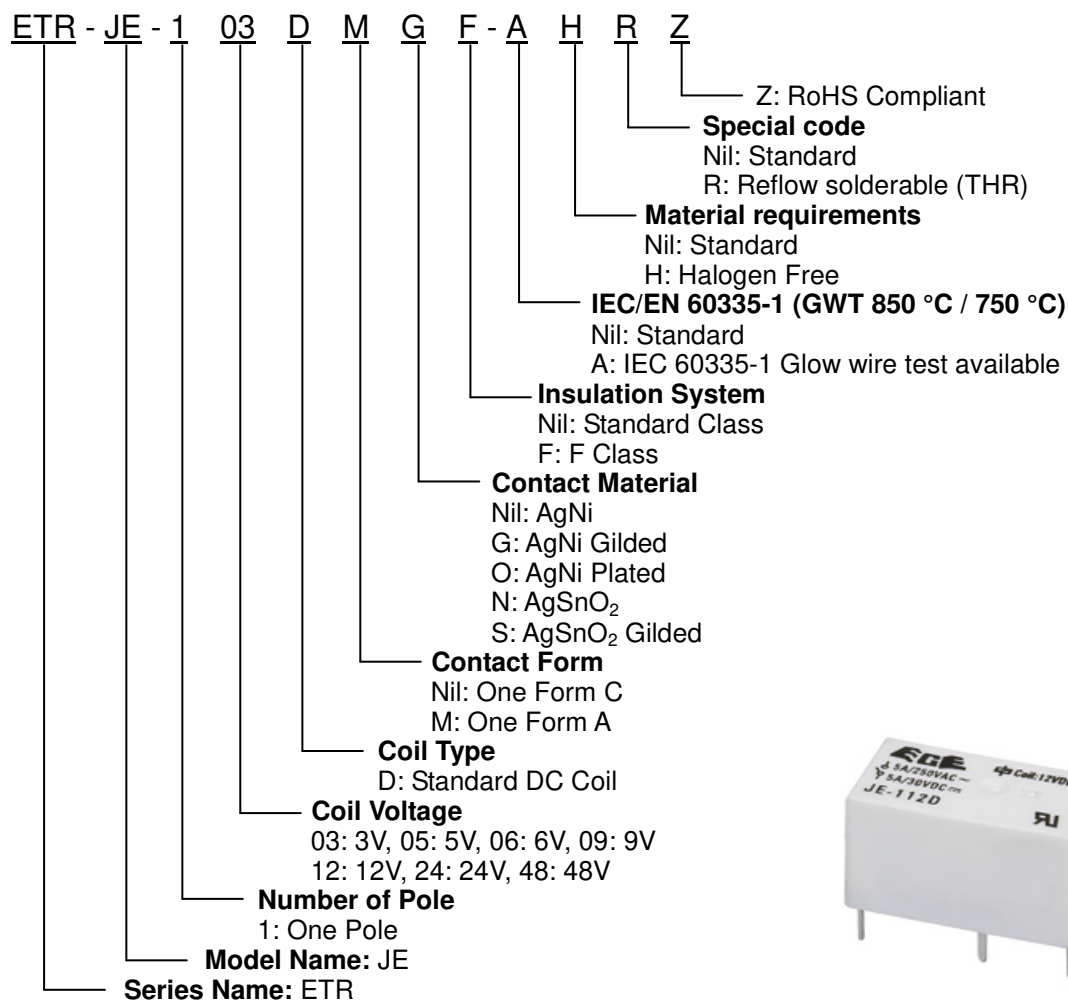


**Rely on ECE's Relays,
and You Always Relax!**

■ COIL SPECIFICATION AT 20°C

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max. Allowable Voltage (VDC)
JE	3	66.7	45	Abt. 0.2	75% Max.	5% Min.	150%
	5	40.0	125				
	6	33.3	180				
	9	22.2	405				
	12	16.7	720				
	24	8.3	2,880				
	48	4.2	11,520				

■ 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: $+0.1\text{mm}$)

