



HOME APPLICATION RELAY

ETR GU SERIES

■ FEATURES

- Single contact Form (SPST) series Relay offers switching capacity 30A in small size.
- Dust cover, sealed & unclosed cover types are available.
- UL Class F insulation available.
- Halogen Free series available.
- Comply with RoHS and REACH regulations.

■ SAFETY STANDARD

UL&CUL E141060 UL 508

Model	Load	Cycles
GU-D	NO:	
	30A, 240Vac, 40°C, General Use	6K
	30A, 30Vdc, 40°C, L/R=0	6K
	1-1/2 HP, 240Vac, 40°C	1K
	TV-8, 120Vac, 40°C	25K

Model	Load	Cycles
GU-D	NC:	
	10A, 30Vdc, 40°C, L/R=0	6K
	20A, 240Vac, 40°C, General Use	6K
	1/2HP, 240Vac, 40°C	1K

■ SPECIFICATIONS(AT INITIAL VALUE)

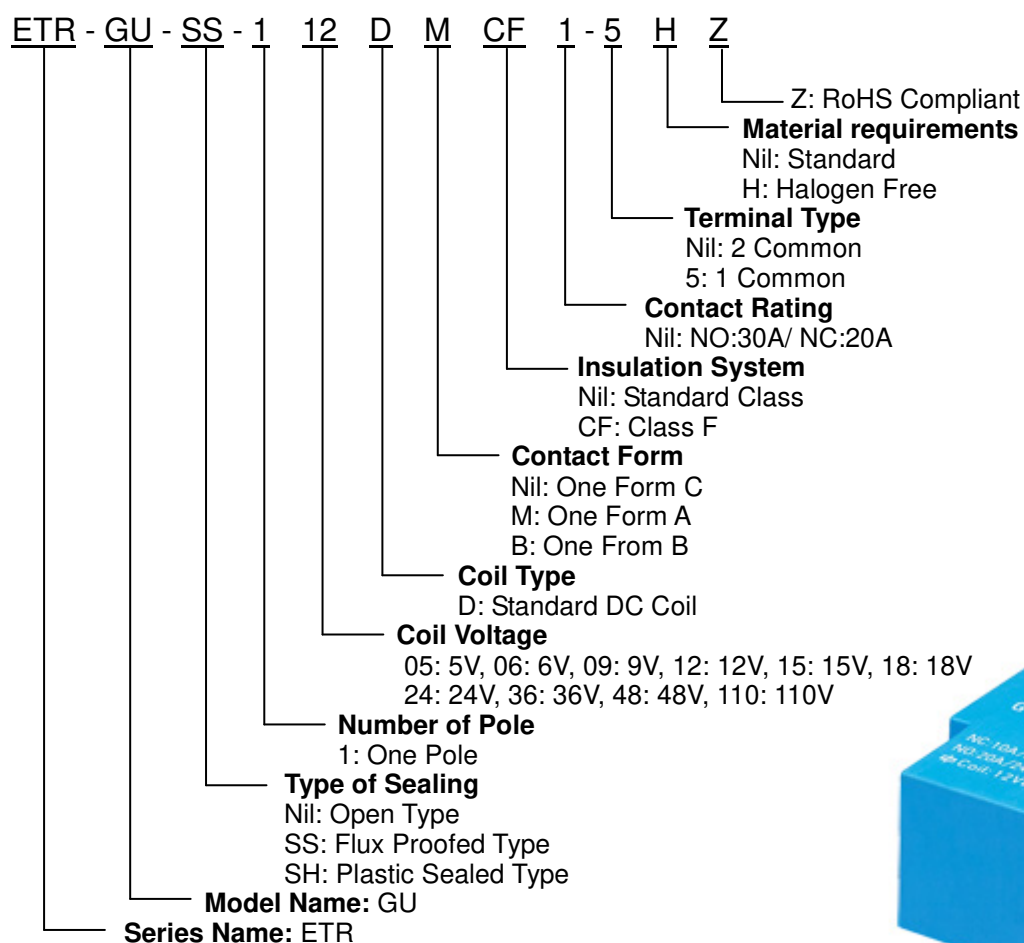
Contact Resistance	100 mΩ Max. @1A,6VDC
Operate Time	15 mSec. Max.
Release Time	10 mSec. Max.
Dielectric Strength	Between Coil & Contact: 1,500VAC at 50/60Hz for one minute Between Contacts: 1,500VAC at 50/60Hz for one minute
Insulation Resistance	100MΩ Min. at 500VDC
Max. On/OFF Switching	Electrical: 6 Cycles per Minute Mechanical: 300 Cycles per Minute
Temperature Range	-25°C~+55°C
Humidity Range	45~85%RH
Coil Temperature Range	60°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: 50 m/s ²
Mechanical Life	10 ⁷ operations at no load condition.
Weight	Flow Solder Type: About 27.2g Open Type: About 21.6g



■ 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)
GU	5	185	27	Abt. 0.93	80% Max.	5% Min.	150% (for short time carrying current)
	6	150	40				
	9	93	97				
	12	77	155				
	15	59	255				
	18	47	380				
	24	36	660				
	36	25.8	1,390				
	48	19.4	2,480				
	110	8.5	13,000				

■ 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: $+0.1\text{mm}$)

