



Main Feature

- GU Single contact Form (SPST) series Relay offers switching capacity by 30 Amps in small size for various kinds of applications.
- Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without duct cover. In addition, dust cover and sealed cover types are available to meet customer's various requirements.
- 3. SS Flow Solder Type (Dust Cover) is available for PC Board processing.
- 4. PC Board mounting & quick connect terminals can be used for various application.
- 5. Flanged Cover can be fixed by screw or by snap-in mounting track.
- 6. Halogen Free series is available.

Contact Rating

Load Type	GU (DM)	GU (DB)	GU (D)
	30A 120VAC	10A 240VAC	NC: 10A 240VAC
Rated Load (Resistive)	30A 240VAC	10A 30VDC	10A 30VDC
Rated Load (Resistive)	30A 30VDC	-	NO: 20A 240VAC
	-	-	20A 30VDC
	TV-8 120VAC	-	TV-8 120VAC
Contact Capacity	1-1/2HP 240VAC	1-1/2HP 240VAC	1-1/2HP 240VAC
	1/2HP 240VAC	1/2HP 240VAC	1/2HP 240VAC
Rated Carrying Current	30A	10A	20A
Max. Allowable Voltage	AC 240V	AC 240V	AC 240V
Max. Allowable Current	30A	10A	20A
Max. Allowable Power Force	7,200VA	2,400VA	4,800VA
wax. Allowable Fower Force	900W	300W	600W
Contact Material	Ag Alloy	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST	SPDT

Application

Domestic Appliances, Heating, Ventilating and Conditioning System, Car Control Switching Box, General Power Switching Applications.

Performance (at Initial Value)

 Torridance fat militiar van	~~ <i>,</i>	
Contact Resistance	100	mΩMax.@1A,6VDC
Operate Time	15 r	mSec. Max.
Release Time	10 r	mSec. Max.
Dielectric Strength:		
Between Coil & Contact	1,50	00VAC at 50/60 Hz
	for (one minute.
Between Contacts	1,50	00VAC at 50/60 Hz
	for (one minute.
Insulation Resistance	100	MegaΩ Min. at
	500	VDC.
Max. On/Off Switching:		
Electrical	6	Cycles per Minute.

Mechanical 300 Cycles per Minute.

Temperature Range.....-25~55°C

	Humidity Range	45∼85% RH.
•	Coil Temperature Rice	60°C May

Vibration:	
Endurance	. 10 to 55 Hz dual
	amplitude width 1.5 mm.
Error Operation	. 10 to 55 Hz dual
	amplitude width 1.5 mm.

Shock:	
Endurance1,00	0 m/S^2 .
Error Operation50	m/S^2 .

Endurance	1,00	0 m/S .
Error Operation	50	m/S^2 .
Life Expectancy:		
Mechanical	10 ⁷	Operations at No
		d condition.
Electrical	10 ⁵	Operations at Rated
	Res	istive Load.
Weight	Flov	v Solder Type: 27.2g
	Ope	n Type:21.6g.

Safety Standard & Its File Number

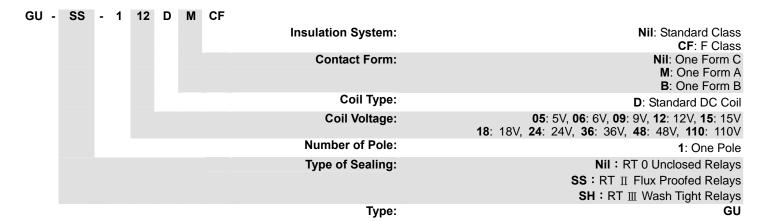
UL & C-UL	E141060
CQC	07001018733



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)	Maximum Allowable Voltage (VDC)
	5	185	27	Abt. 0.93	80% Maximum	5% Minimum	150% but for short time carrying current
	6	150	40				
	9	93	97				
GU-D	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				

Ordering Information



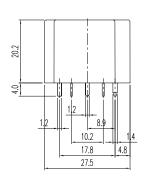
Classification

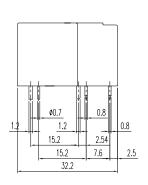
Model	GU				
Insulation System	Nil: Standard Class / CF: F Class				
Contact Form	1C	1A	1B		
Unclosed Relay	GU-1□□D(CF)	GU-1□□DM(CF)	GU-1□□DB(CF)		
Flux Proofed Type	GU-SS/SH-1□□D(CF)	GU-SS/SH-1□□DM(CF)	GU-SS/SH-1□□DB(CF)		

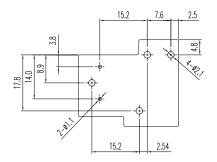


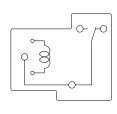
Dimension (≤5mm+ 0.2mm, > 5mm + 0.3mm, the tolerance of PCB thru hole: +0.1mm)

GU





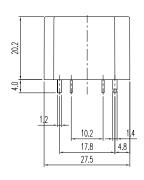


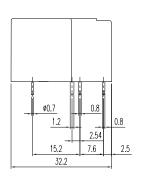


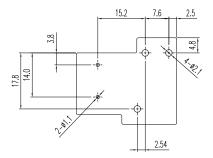
P.C.B. Layout

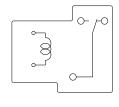
BOTTOM VIEW

GU(Single Common)





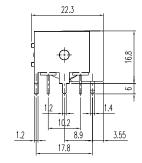


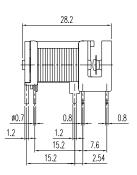


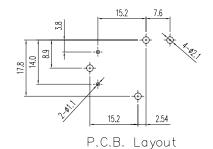
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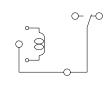
BOTTOM VIEW

GU Unclosed









BOTTOM VIEW