G105-1A-T General Purpose Relay

Descriptions

General Purpose Relays are cost effective, provide excellent functionality and are ideal for any application from controlling smaller loads, to those requiring high current-carrying capacity. Assembly and installation of General Purpose Relays are quick, easy and secure with little risk of damage.

Features & Specifications:

- High capacity, High dielectric strength relay
- Compatible with momentary voltage drops
- No contact chattering for momentary voltage drops up to 50% of rated voltage
- Wide range AC-activated coil that handles 100 to 120 or 200 to 240VAC at either 50 or 60Hz.
- Miniature hinge for maximum switching power, particularly for incuctive loads
- Flame resistance materials(UL94V-0-qualifying) used for all insulation material
- · Quick-connect, screw, and PCB terminals





Specifications

Coil Ratings:

Rated voltage		Rated current	Coil resistance	Must operate voltage	Must release voltage	Max.voltage	Power consumption (approx.)	Coil internal circuit
AC(~)	12V	142 mA	P4 P5	75% max. Of rated voltage	15% min. Of rated voltage	110% Of rated voltage	1.7 to 2.5VA (60Hz)	■←
	24V	71 mA						
	50V	34 mA	<u></u>					
	100 to 120V	17.0 to 20.4 mA		75V	18V	132V		
	200 to 240V	8.5 to 10.2 mA	_	150V	36V	264V		•0
DC(=)	6V	317 mA	18.9 Ω	75% max. Of rated voltage	15% min. Of rated voltage	110% Of rated voltage	1.9 W	Į-
	12V	158 mA	75 Ω					
	24V	79 mA	303 Ω					E
	48V	40 mA	1220 Ω					T
	100V	19 mA	5260 Ω					0

Note:

- 1. The rated curent and coil resistance are measured at a coil temperature of 23C with tolerances of +15%/-20% for AC rated current and +15% for DC coil resistance.o
- 2. Performance characteristic data measured at a coil temperature of 23C.
- 3. ~ idicates AC and =indicates DC (IEC417 publications).

Contact Ratings:

	G105-1A-T			
Load	Resistive load (cosφ =1)			
Rate load	30A,220VAC			
Contact material	AgCdO			
Carry current	30A			
Max.Operating voltage	250VAC			
Max.Operating current	30A	100		
Max.Switching capacity	6,600VA	5,500VA		
Min.Permissible load	100mA,5VDC	0.0		

Note: P level: λ 60=0.1x10-6 /operation

Characteristics:

Contact resistance		50m Ω max		
Operate time		30ms max		
Release time		30ms max		
Max.operating	Mechanical	1,800 operations/hour		
frequency	Electrical	1,800 operations/hour(under rated load)		
Insulation resistance		1,000mΩ min.(at 500VDC)		
		4,000VAC,min./5,000VAC typical,50/60Hz for 1 minute between coil and contacts		
Dielectric strength		2,000 VAC,50/60Hz for1minute between contacts of same pole		
		2,000 VAC,50/60Hz for1minute between contacts of different poles(DPST-NO type)		
Impulse withstand v	/oltage	Between coil and contact:10,000V(impulse wave used:1.20x50µs)		
Vibration	Mechanical durability	10 to 55 Hz, 1.50mm(0.06in) double amplitude		
VIDIATION	Malfunction durability	10 to 55 Hz, 1.50mm(0.06in) double amplitude		
Shock	Mechanical durability	1,000m/s²(approx.100G)		
SHOCK	Malfunction durability	1,000m/s ² (approx.100G)		
Life expectancy	Mechanical	5,000,000 operations min.(at 1,800 operations/hour)		
Encoxpectancy	Electrical	100,000 operations min.(at 1,800 operations/hour under rated load)		
Ambient temperatur	re	-20°C to 85°C(-4°F to 185°F)		
Humidity		35% to 85%RH		
		Quick-connect terminal type:approx.90g(3.17oz)		
Weight		PCB terminal type:approx.100g(3.52oz)		
		Screw terminal type:approx.120g(4.32oz)		

Note: Data shown are of initial value.

Characteristic Data:

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