General Purpose Relay

Description

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



G105-1A-T



G105-1A-B

Specifications:

Coil Ratings

Rated voltage		Rated current	Coil resista	nce	Must operate voltage	Must release voltage	Max.voltage	Power consumption (approx.)	Coil internal circuit
AC(~)	12V	142 mA	_		75% max. Of rated voltage	15% min. Of rated voltage	110% Of rated voltage	1.7 to 2.5 VA (60Hz)	
	24V	71 mA							
	50V	34 mA							
	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	1-
	12V	158 mA	75	Ω					
	24V	79 mA	303	Ω					E
	48V	40 mA	1220	Ω					T
	100V	19 mA	5260	Ω					•

Note: 1. The rated curent and coil resistance are measured at a coil temperature of 23 C with tolerances of +15%/-20% for AC rated o current and +15% for DC coil resistance.

- 2. Performance characteristic data measured at a coil temperature of 23 C.
- 3. ~ idicates AC and =indicates DC (IEC417 publications).

Contact Ratings

Load	G105-1A-T G105-1A-B		
Load	Resistive load(cos ^φ =1)		
Rate load	30A,220VAC		
Contact material	AgCdO		
Carry current	30A		
Max.Operating voltage	250VAC		
Max.Operating current	30A		
Max.Switching capacity	6,600VA		
Min.Permissible load	100mA,5VDC		
Mounting	Panel mount		
Terminals	Quick-connect, screw, PCB		
Coli voltage	12VDC,24VAC,110VAC,220VAC		

Note:P level: =0.1x10 /operation

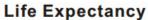
Characteristics

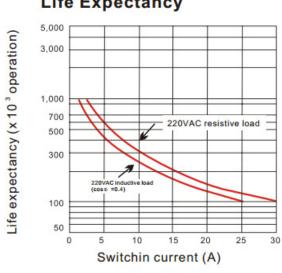
Contact resistance		50m $Ω$ max		
Operate time		30ms max		
Release time		30ms max		
Max.operating	Mechanical	1,800 operations/hour		
frequency	Electrical	1,800 operations/hour(under rated load)		
Insulation resistant	ce	1,000m Ω min.(at 500VDC)		
		4,000VAC,min./5,000VAC typical,50/60Hz for 1 minute 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 voltage		Between coil and contact:10,000V(impulse wave used:1.20x50 ps)		
Vibration	Mechanical durability	10 to 55 Hz,1.50mm(0.06in) double amplitude		
***************************************	Malfunction durability	10 to 55 Hz,1.50mm(0.06in) double amplitude		
Shock	Mechanical durability	1,000m/s ² (approx.100G)		
Ollock	Malfunction durability	1,000m/s²(approx.100G)		
Life expectancy	Mechanical	5,000,000 operations min.(at 1,800 operations/hour)		
Life expectancy	Electrical	100,000 operations min.(at 1,800 operations/hour under rated load)		
Ambient temperatu	ire	-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

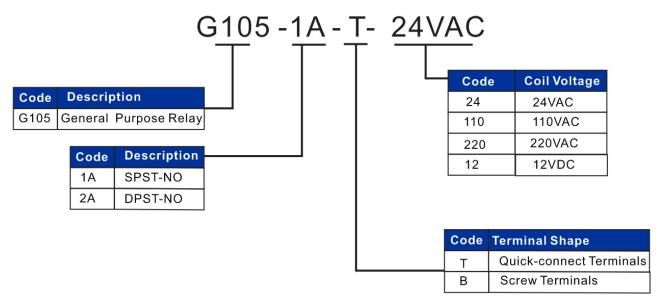
G105-1A-T G105-1A-B

Maximum Switching Power 100 50 40 Switching current (A) 30 20 10 Switching voltage (V)



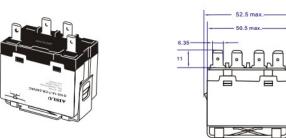


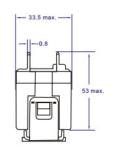
Part Number Scheme



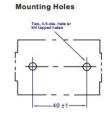
Quick - connect Terminals with E-bracket

G105-1A-T





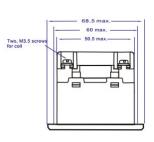
Terminal Arrangement/ Internal Connections (Top View)

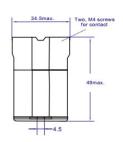


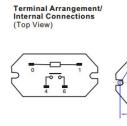
Screw terminals with Upper Bracket

G105-1A-BUB









Two. 4.5-dia. hole or M4 tapped holes

60±0.2

Mounting Holes

E-Bracket

