



GENERAL PURPOSE RELAY

NRG51-SERIES

- Small size and light weight.
- Low coil power consumption.
- High contact load.
- Strong anti-shock high reliability.

SPECIFICATIONS

Contact			
Arrangement	1A□ 1B□ 1C□	2A□ 2B□ 2C□	
Contact Material	Silver Alloy		
Contact Resistance (By voltage drop 6V 1A)	Max. 50mΩ		
Rating			
Resistive load (Cos.Φ=1)	15A 240VAC	10A 240VAC	
	15A 24VDC	10A 24VDC	
Inductive (Cos.Φ=0.75~0.8)	7A 240VAC	5A 240VAC	
Max. Allowable Voltage	110VDC/240VAC		
Max. Allowable Current	15A	10A	
Max. Allowable Power force	1700VA/360W	1100VA/240W	
Referencial Min.Load	10VDC 10mA		
Expected life(min.ope)			
Mechanical(at 120 cpm)	1 × 10 ⁶		
Electrical (at 20 cpm)	1 × 10 ⁵		

Characteristics

Operate Time		Max.25 msec.
Release Time		Max.25 msec.
Operating humidity		45 to 85% RH
Initial breakdown voltage		
Between coil & contact	1500VAC (50/60Hz)for 1 Min.	
Between open contacts	1000VAC (50/60Hz)for 1 Min.	
Insulation Resistance		Min.100MQ (500 VDC)
Ambient temperature		-40□ ~+70□
Shock	Functional	Min.10G
Resistance	Destruction	Min.100G
Vibration	Functional	10 to 55 Hz at double Amplitude of 1.5mm
Resistance	Destruction	10 to 55 Hz at double Amplitude of 1.5mm
Unit weight		40g Max.
Coil		
Nominal operating power		0.9W to 1.2VA

TYPICAL APPLICATION

1.Industrial Machines

2.Electrical Equipments

3.Air conditioner and Household appliance

ORDERING INFORMATION

NRG51 - C - 12D - P

□ □ □ □

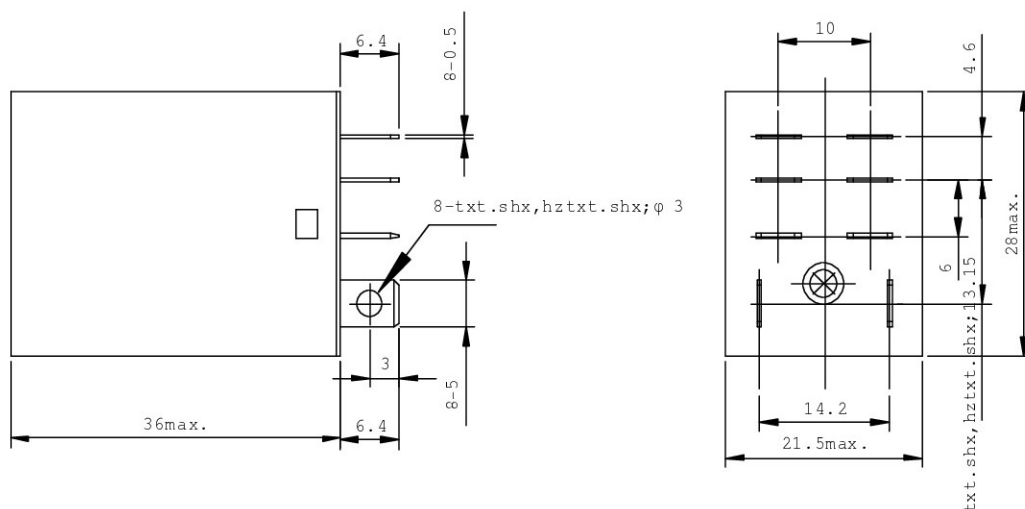
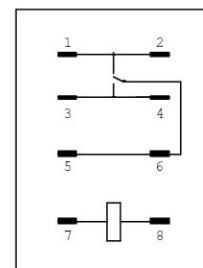
- Part No.
- Contact Arrangement:
A: Normally Open B:Normally Closed C: Change-over
- Coil Voltage:
DC: 6, 12, 24, 48, 110V
AC: 6, 12, 24, 48, 110/120, 220/240VAC
- Terminal Type: P- P.C.B. Terminal
T- Plug-in F- Plug-in with Flange Cover

COIL DATA (at 20 °C)

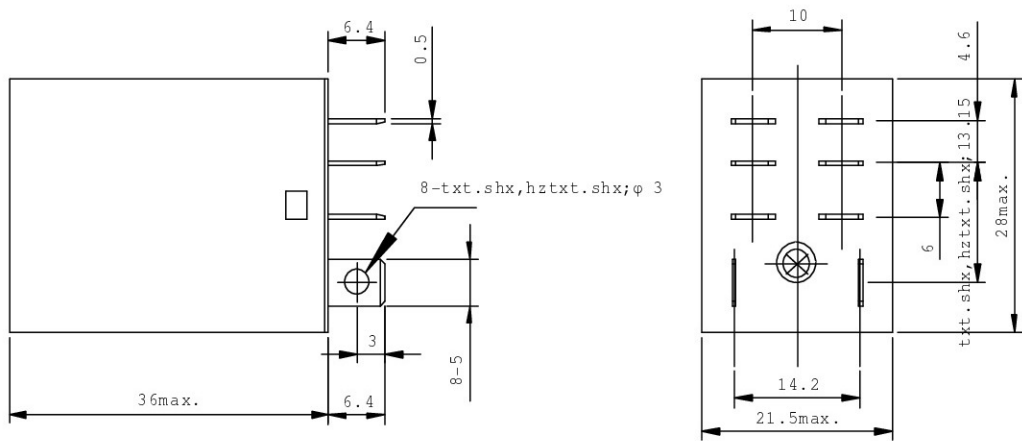
Type	Nominal Voltage	Nominal Current (mA)		Coil Resistance (Ω) $\pm 10\%$	Power Consumption	Pull-in Voltage	Drop-out Voltage	Max.Allowable Voltage
		50Hz	60Hz					
AC	6	220	170	10	abt. 1.0 to 1.3 VA (60Hz)	80% Max.	30% Min.	110%
	12	110	85	43				
	24	60	45	160				
	48	30	23	600				
	110	14	12	3400				
	120	13.5	11.5	3400				
	220/240	6	5	13600				
DC	6	150		40	abt. 0.9W	80% Max.	100% Min.	110%
	12	75		160				
	24	36.9		650				
	48	18.5		2600				
	110	10		11000				

DIMENSIONS

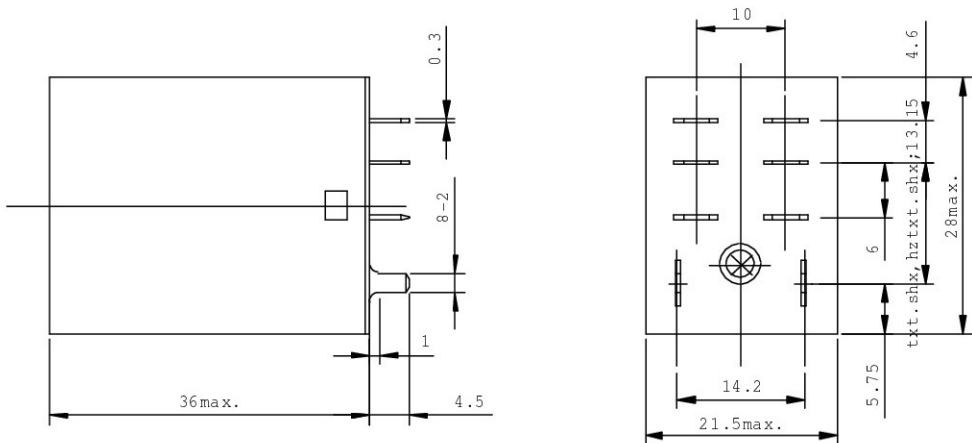
Unit: mm

NRG51-1Pole Plug-in terminal**WIRING DIAGRAM
1 POLE**

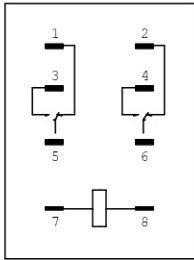
NRG51-2Pole Plug-in terminal



NRG51-2Pole P.C.B terminal

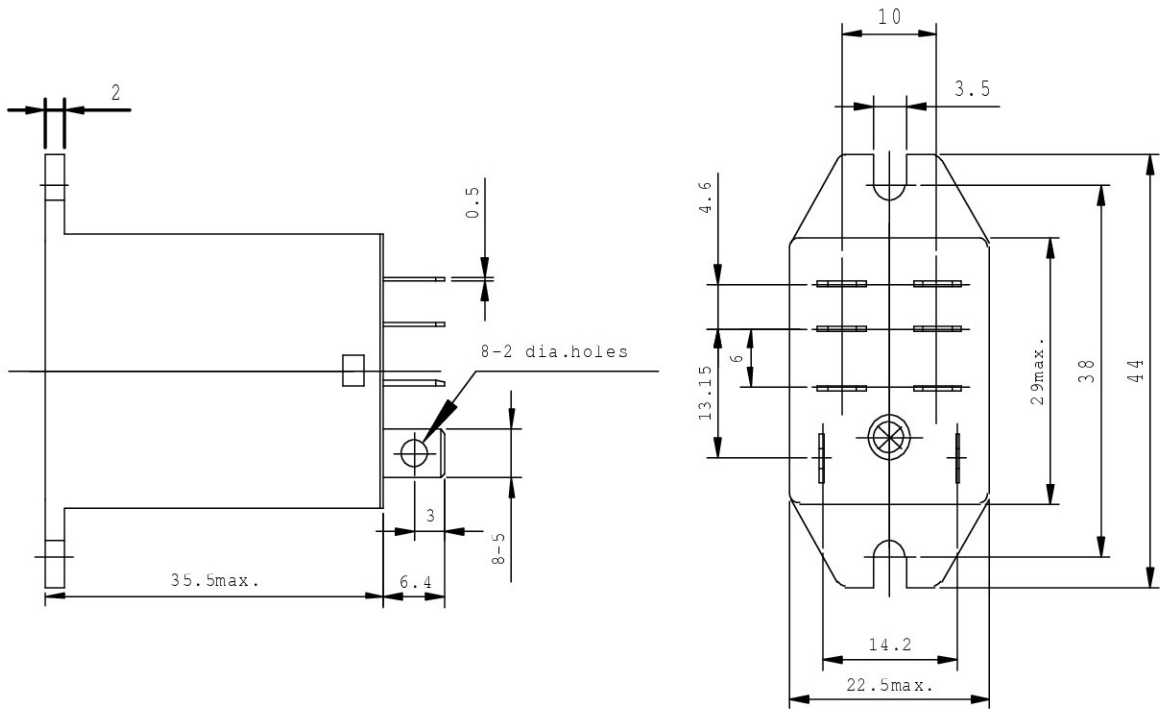


WIRING DIAGRAM
2 POLE



NRG51-1Pole Flange Case and Plug-in Terminal

NRG51-2Pole Flange Case and Plug-in Terminal



Mounting Holes

