Power Relay	NY

Features

- 30A contact change-over capacity
- With opening and dust-proof type
- 2500V dielectric strength (between coil and contacts)
- Various terminals available
- 1 & 2 poles configurations



1. COIL DATA (at 23°C)

1) DC Type

Nominal Voltage (VDC)	Pick-up Voltage (VDC)	Drop-out Voltage (VDC)	Max. Allowable Voltage (VDC)	Coil Resistance (Ω)	Coil Power (W)
6	4.50	0.6	6.6	18 x (1±10%)	Approx. 2
9	6.75	0.9	9.9	40.5 x (1±10%)	
12	9.00	1.2	13.2	72 x (1±10%)	
18	13.5	1.8	19.8	162 x (1±10%)	
24	18.0	2.4	26.4	288 x (1±10%)	
48	36.0	4.8	52.8	1152 x (1±10%)	
60	48.0	6.0	66	1800 x (1±10%)	
110	82.5	11	121	6050 x (1±10%)	
220	165	22	242	24200 x (1±10%)	

2) AC Type

Nominal Voltage (VAC)	Pick-up Voltage (VAC)	Drop-out Voltage (VAC)	Max. Allowable Voltage (VDC)	Coil Resistance (Ω)	Coil Power (VA)
6	4.8	1.8	6.6	3.15 x (1±10%)	Approx. 4
9	7.2	2.7	9.9	7 x (1±10%)	
12	9.6	3.6	13.2	12.6 x (1±10%)	
18	14.4	5.4	19.8	28 x (1±10%)	
24	19.2	7.2	26.4	50.4 x (1±10%)	
48	38.4	14.4	52.8	201 x (1±10%)	
110	88	33	121	1058 x (1±10%)	
220	176	66	242	4235 x (1±10%)	
240	192	72	264	5040 x (1±10%)	
380	304	114	418	12635 x (1±10%)	

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2. CONTACT DATA

Contact Arrangement		1 Form C, 2 Form C
Contact Resistance		100mΩ max. (at 1A 6VDC)
Contact Material		$AgSnO_2$
Contact Ratings (Resistive load)		30A 250VAC / 28VDC
Max. Switching Voltage		250VAC / 28VDC
Max. Switching Current		30A
Max. Switching Power		7500VA / 840W
Min. Switching Load		6VDC 100mA
Life Expectancy	Electrical*	100,000 operations
	Mechanical	10,000,000 operations

Notes: *Please refer to life expectancy on characteristic curves.

3. CHARACTERISTICS

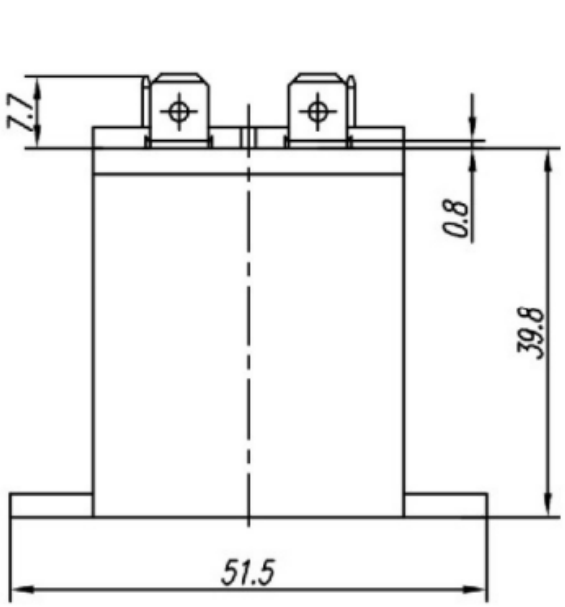
Insulation Resistance		100MΩ
Dielectric Strength	Open Contacts	1500VAC 1min (Leakage current 1mA)
	Coil and Contacts	2500VAC 1min (Leakage current 1mA)
	Contact Sets	1500VAC 1min (Leakage current 1mA)
Operate Time (at nominal voltage)		25ms max.
Release Time (at nominal voltage)		15ms max.
Temperature Range		-44℃ ~ 55℃
Shock Resistance	Error Operation	At peak acceleration $98m/s^2$ Duration 11ms
	Endurance	At peak acceleration $980m/s^2$ Duration 6ms
Vibration Resistance	Error Operation	Amplitude 1mm, 10 ~ 55Hz
	Endurance	Amplitude 1mm, 10 ~ 55Hz
Humidity		5 ~ 85% RH
Termination		Screw
Construction		Dust proof
Weight		1 Form C: Approx. 72g 2 Form C: Approx. 77g
Outline dimension (L x W x H)		51.5 x 35.6 x 39.8mm

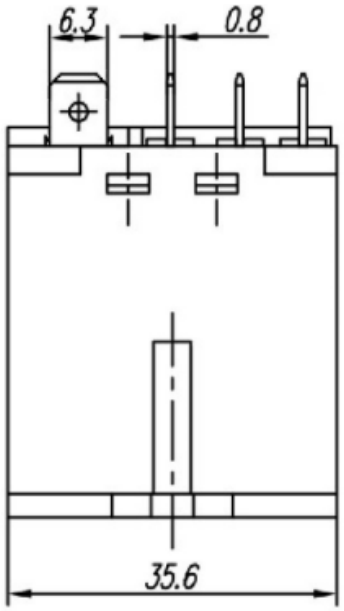
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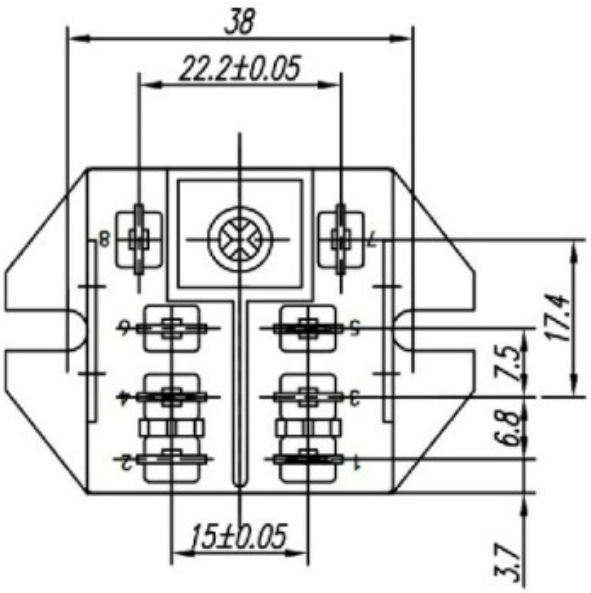
4. ORDERING INFORMATION

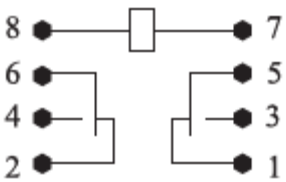
NY 1 - A220 ① ② ③	
① Relay Model	NY
② Contact Arrangement	1: 1 Form C (SPDT) 2: 2 Form C (DPDT)
③ Coil Voltage	DC : D6=6VDC, D12=12VDC, D24=24VDC, D48=48VDC, D60=60VDC, D110=110VDC AC: A12=12VAC, A24=24VAC, A48=48VAC, A110=110VAC, A220=220VAC, A240=240VAC

5. DIMENSIONS (Unit: mm)

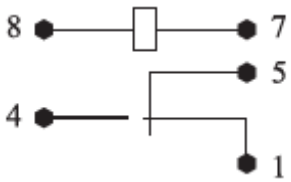








2 Form C



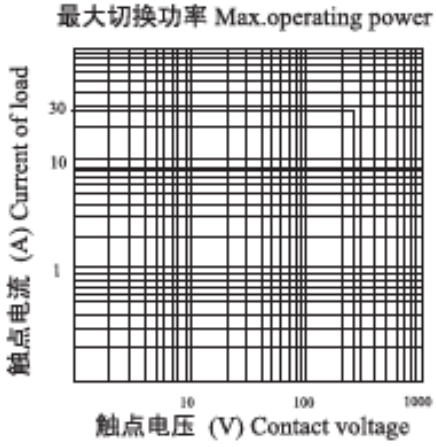
1 Form C

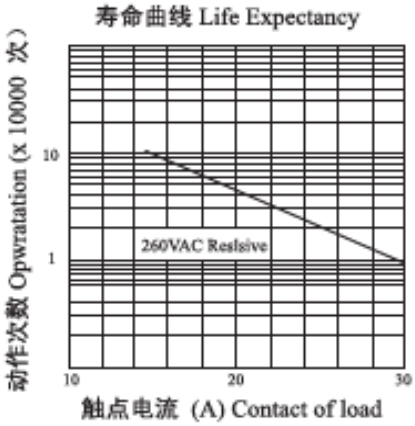
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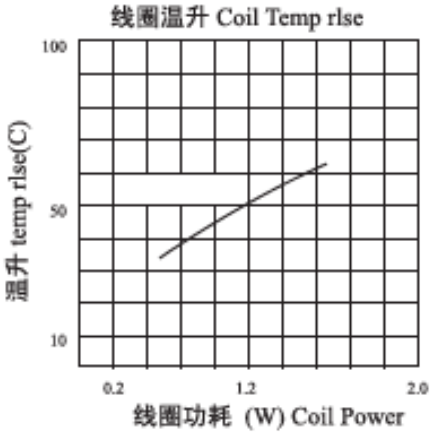
Remark: 1) In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

2) The tolerance without indicating for PCB layout is always ±0.1mm.

6. CHARACTERISTIC CURVES







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