POWER RELAY 1 POLE-5 A (CADMIUM FREE CONTACTS TYPE) NY SERIES

■ FEATURES

- Ultra slim type with 5 mm thickness —Good for high density mounting
- Low power consumption and high sensitivity
 —Nominal coil power: 120 mW
 —Operating power: 54 mW
- UL, CSA, VDE recognized
- Conforms to IEC 1010-1 and 1131-2
- Wide operating range
- SIL pitch terminals
- Plastic sealed type
- Compatible with solid state I/O module type SN (see page 376) in size and pin (terminal) arrangement
- Environmentally friendly cadmium free contact type is available.

ORDERING INFORMATION

[Evomplo]	NY	<u>P</u>	-	12	W	– <u>K</u>	
[Example]	(a)	(b)	(*)	(c)	(d)	(e)	

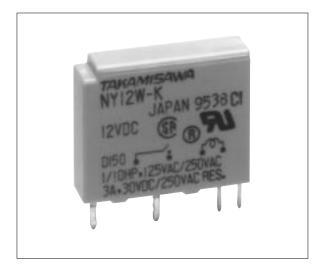
(a)	Series Name	NY: NY Series	
(b)	Terminal Classification	Nil : PC board mounting type P : Socket mounting type	
(c)	Nominal Voltage	Refer to the COIL DATA CHART	
(d)	Contact	W : Bifurcated type	
(e)	Enclosure	K : Plastic sealed type	

Note: Actual marking omits the hyphen (-) of (*)

■ SAFETY STANDARD AND FILE NUMBERS

UL508 (File No. E56140) C22.2 No. 14 (File No. LR35579) VDE0435 (File No. 11039-4940-1013) Please note that UL/CSA ratings may differ from the standard ratings.

Nominal voltage	Contact rating
4.5 to 24 VDC	1/8 HP 125 VAC/250 VAC 5 A 30 VDC/250 VAC resistive Pilot duty C 300



■ SPECIFICATIONS

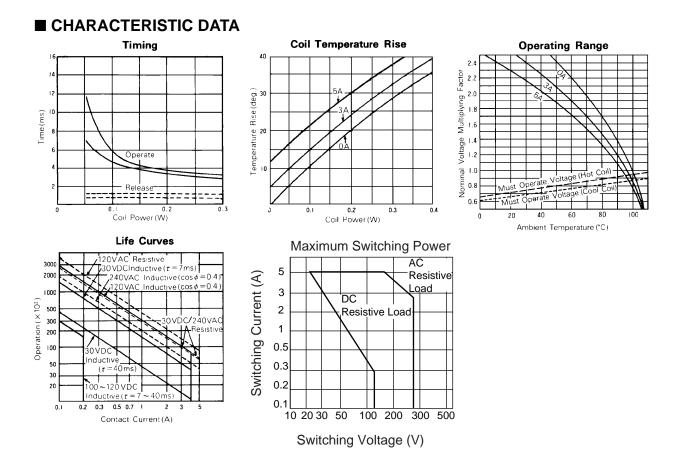
Item		m	NY			
Contact	t Arrangement		1 form A (SPST-NO)			
	Material		Gold overlay silver alloy			
	Style		Bifurcated			
Resistance (initial)		(initial)	Maximum 30 m Ω (at 1 A 6 VDC)			
	Rating (res	istive)	3 A 250 VAC or 3 A 30 VDC			
	Maximum (Carrying Current	5 A			
	Maximum S	Switching Power	750 VA, 90 W			
	Maximum S	Switching Voltage	270 VAC, 125 VDC			
	Maximum S	Switching Current	5 A			
	Minimum S	witching Load*1	1mA 5 VDC			
Coil	Nominal Power (at 20°C)		0.12W			
	Operate Power (at 20°C)		0.054 W			
	Operating Temperature		-40°C to +90°C (no frost) (refer to the CHARACTERISTIC DATA)			
Time Value	e Operate (at nominal voltage)		Maximum 10 ms			
	Release (at nominal voltage)		Maximum 5 ms			
Insulation	Resistance (at 500 VDC)		Minimum 1,000 MΩ			
		between open contacts	750 VAC 1 minute			
		between coil and contacts	3,000 VAC 1 minute			
	Surge Strength		5,080 V (at 1.2×50 μs)			
Life	Mechanical		2 x 10 ⁷ operations minimum			
	Electrical		1.5×10^{5} operations minimum (at 5A 30VDC) 1.5×10^{5} operations minimum (at 3 A 120 VAC) 3×10^{4} operations minimum (at 5 A 250 VAC)			
Other	Vibration	Misoperation	10 to 55 Hz (double amplitude of 1.5 mm)			
	Resistance	Endurance	10 to 55 Hz (double amplitude of 5.0 mm)			
	Shock	Misoperation	100 m/s ² (11 ^{± 1} ms)			
	Shock Resistance	Endurance	1,000 m/s² (6 ^{±1} ms)			
	Weight		Approximately 3.5 g			

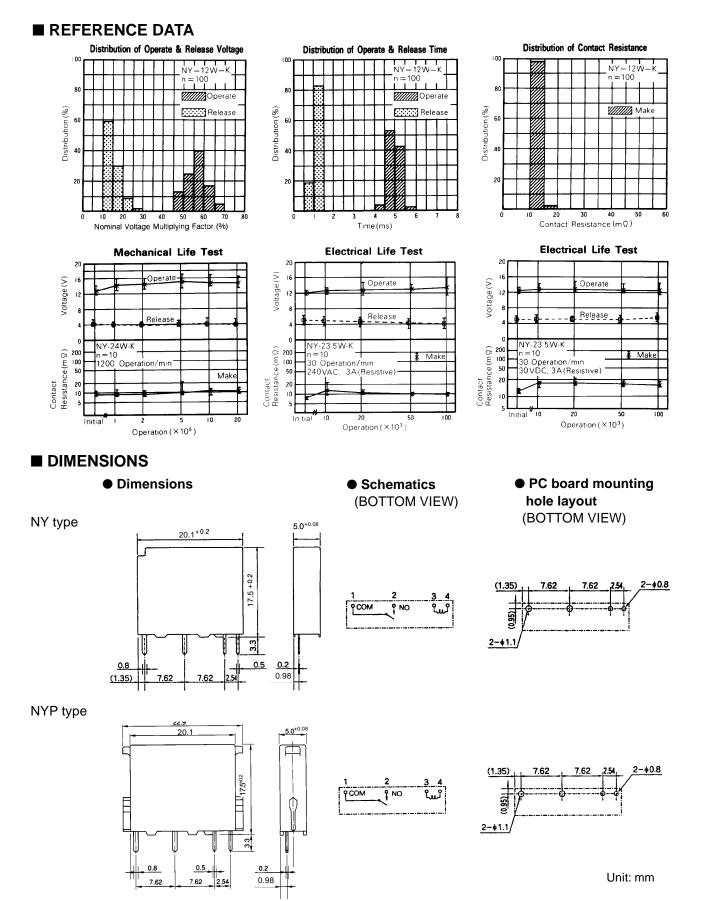
*1 Minimum switching loads mentioned above are reference values. Please perform the confirmation test with the actual load before production since reference values may vary according to switching frequencies, environmental conditions and expected reliability levels.

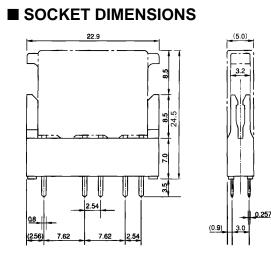
■ COIL DATA CHART

MODEL	Nominal voltage	Coil resistance (±10%)	Must operate voltage	Must release voltage	Nominal power
NY- 4.5 W-K	4.5 VDC	169 Ω	3 VDC	0.45 VDC	120 mW
NY- 5 W-K	5 VDC	208 Ω	3.35 VDC	0.5 VDC	120 mW
NY- 6 W-K	6 VDC	300 Ω	4 VDC	0.6 VDC	120 mW
NY- 9 W-K	9 VDC	675 Ω	6 VDC	0.9 VDC	120 mW
NY- 12 W-K	12 VDC	1,200 Ω	8 VDC	1.2 VDC	120 mW
NY- 18 W-K	18 VDC	2,700 Ω	12.1 VDC	1.8 VDC	120 mW
NY- 24 W-K	24 VDC	4,800 Ω	16.1 VDC	2.4 VDC	120 mW

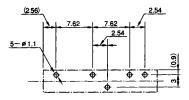
Note: All values in the table are measured at 20°C







SOCKET DRILLING PLANT



Unit: mm

■ NOTES

- 1. Socket ordering code. JL-5N
- 2. Standard IC socket is not recommended. Please use socket JL-5N.

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