Y02 Series Relay

FEATURES

- UL safety approval.
- 16A switching capabilities.
- 1 & 2 pole configurations.
- 5KV dielectric coil to contacts.
- Height is 15.7mm.
- Sealed & unsealed type available.
- Creepage distance 10mm.
- Sensitive coil 250mW.

UL FILE NO: E171095/E188367

CONTACT RATINGS

●Contact Arrangement

Y02……...1 Form A (SPST-NO)
……1 Form C (SPDT)
……2 Form A (DPST-NO)
……2 Form C (DPDT)
Y02-T…….....1 Form A (SPST-NO)
……...1 Form C (SPDT)
Y02H…….....1 Form A (SPST-NO)
……...1 Form C (SPDT)

● Max. Switching Power

Y02 (1 Form A、1 Form C)…….....3000VA 360W
Y02 (2 Form A、2 Form C)……2000VA 240W
Y02-T(1 Form A、1 Form C)…….4000VA 480W
Y02H (1 Form A、1 Form C)…….2500VA 300W

● Max. Switching Voltage……250VAC 30VDC

● Max. Switching Current

Y02 (1 Form A、1 Form C)…….....12A
Y02 (2 Form A、2 Form C)……8A
Y02-T(1 Form A、1 Form C)…….20A
Y02H (1 Form A、1 Form C)…….10A

●Contact Resistance……≤100mΩ

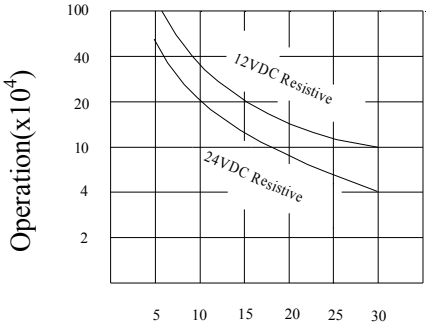
● Resistive Load

Y02 (2 Form A、2 Form C)……..8A/250VAC, 8A/30VDC
Y02 (1 Form A、1 Form C)……..12A/250VAC ,12A/30VDC
Y02-T(1 Form A、1 Form C)……16A /250VAC ,20A/125VAC
16A/30VDC
Y02H (1 Form A、1 Form C)……10A/250VAC ,10A/30VDC

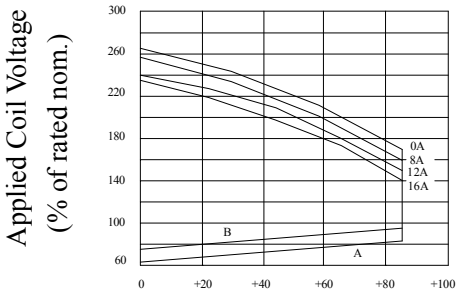
● Inductive Load (Cos ϕ=0.4，L/R=7ms)

Y02-T(1 Form A、1 Form C)…….8A/250VAC ,8A/30VDC
Y02 (1 Form A、1 Form C)…….....6A/250VAC ,6A/30VDC

Y02 Referential Data Life Curves



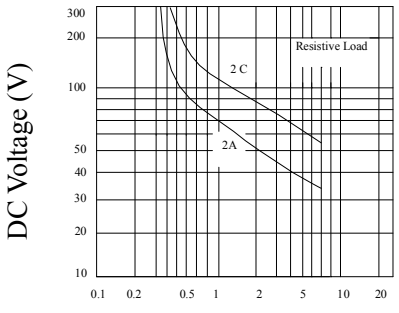
Max. Ambient Temp. VS Coil Voltage



A: Coil temperature = Ambient temperature.

B: 110% of nominal coil voltage at rated contact load

Max. DC Load Breaking Capacity



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Y02H (1 Form A、1 Form C)……5A/250VAC, 5A/30VDC

Y02 (2 Form A、2 Form C)……2A/250VAC ,2A/30VDC

●Motor Load (Cosφ=0.6)

Y02-T(1 Form A、1 Form C)…….1HP/240VAC ,1/2HP/120VAC

Y02 (1 Form A、1 Form C)……..1/2HP/240VAC ,1/3HP/120VAC

Y02H (1 Form A、1 Form C)……1/2HP/240VAC ,1/3HP/120VAC

Y02 (2 Form A、2 Form C)……...1/2HP/240VAC,1/4HP/120VAC

●Contact Material ……..Ag Alloy

● Pilot Duty Load

Y02 (1 Form A、1 Form C)……720VA/240VAC(Form A Only)

Y02 (2 Form A、2 Form C)……360VA/240VAC(Form A Only)

Y02-T(1 Form A、1 Form C)……720VA/240VAC(Form A Only)

Y02H (1 Form A、1 Form C)…….720VA/240VAC(Form A Only)

●TV Rating

Y02 (2 Form A、2 Form C)……TV-3 (2A)

Y02-T(1 Form A、1 Form C)……..TV-8 (1A-T)

CHARACTERISTICS

●Electrical life……1×10^5

●Mechanical life……1×10^7

●Initial Insulation Resistance……Min. 1000MΩ 500VDC

●Contact Resistance (Initial)…….....≤100mΩ

●Operate Time……≤7ms(excluding bounce) typ 15ms max at nom voltage

●Release Time……....≤3ms(excluding bounce) typ 5ms max at nom voltage

●Initial Dielectric Strength ……..50/60Hz 1000VAC 1min. (between open contacts)

……..50/60Hz 5000VAC 1min. (between contacts and coil)

……..50/60Hz 2500VAC 1min. (between contact sets)

●Vibration Resistance ……..Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm

……..Destructive: 10 to 55Hz at Double Amplitude of 1.5mm

●Shock Resistance……..Malfunction: 10G (11ms) / Destructive: 100G (6ms)

●Ambient Temperature……-40℃～+85℃

●Relative Humidity……..85% at 40℃

●Unit Weight……Approx. 13g

ORDERING INFORMATION

Y02 H - 1A - 12 D S - T- F

1 2 3 4 5 6 7 8

Type of Insulation……Nil = Class A ； F = Class F

Terminal Type……Nil = One Foot

……T = Two Feet (Remark: “T” is for 1 Pole only)

Enclosure……Nil = Standard Type ； S = Sealed Type

Coil Type……..D：DC

Coil Voltage……..…….5～110V

Contact Arrangement……1A = 1 Form A (SPST-NO)

...……...1C = 1 Form C (SPDT)

……2A = 2 Form A (DPST-NO)

……2C = 2 Form C (DPDT)

Coil Sensitivity……. Nil = Standard Type ； H = High Sensitive Type

Model Number……Y02

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COIL RATINGS (at20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance (Ω)	Pick-Up Voltage (V) ≤	Drop-Out Voltage (V) ≥	Nominal Current (mA)
Standard Coils	5	62±10%	3.5	0.5	80.6
	6	90±10%	4.2	0.6	66.7
	9	200±10%	6.3	0.9	45
	12	360±10%	8.4	1.2	33.3
	24	1440±10%	16.8	2.4	16.7
	48	5520±10%	33.6	4.8	8.7
	60	7340±12%	42	6.0	8.2
	110	26600±12%	77	11.0	4.1
High Sensitive Coils	5	100±10%	3.7	0.5	50
	6	144±10%	4.5	0.6	41.7
	9	320±10%	6.8	0.9	28.1
	12	576±10%	9.0	1.2	20.8
	24	2304±10%	18.0	2.4	10.4
	48	9216±10%	36.0	4.8	5.2
	60	12857±12%	45.0	6.0	4.7

Max Continuous Voltage at 20℃: 110% of Coil Nominal Voltage.

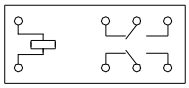
OUTLINE DIMENSIONS

Dimensions

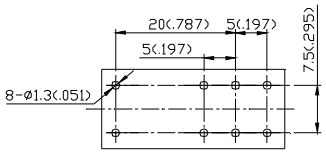
■A: 3.5;5.0

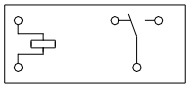
Internal Connections (Bottom View)

Drilling Plan (Bottom View)

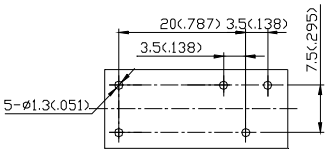


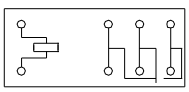
2C



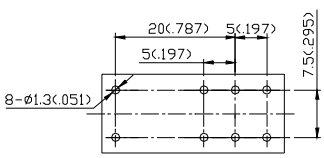


1C





1C-T



REMARK: Tolerance of outline dimensions: ±0.2(.008).

UNIT: mm (inch)

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