

FEATURES

- High coil sensitivity - 0.25W
- 10A contact capacity
- 1 Form A, B, C contact forms
- 5 KV dielectric strength between coil and contacts
- 10 mm creepage distance between coil and contacts
- Low profile design, 15.7 mm in height
- Sealed and dust cover versions available
UL, CUR, VDE, FI approved

TYPICAL APPLICATIONS

- Home appliances
- Office machine
- Vending machine
- Air conditioner and refrigerator

CONTACT RATING

| | |
|------------------------|--|
| Form | 1 Form A (H) 1 Form B (D) 1 Form C (Z) |
| Rated Load | 10A, 250VAC |
| Max. Switching Current | 10A |
| Max. Switching Voltage | 440VAC |
| Max. Switching Power | 2500VA |

CONTACT DATA

| | | |
|----------------------------|------------------------|----------------------|
| Material | AgCdO | |
| Initial Contact Resistance | 50 mΩ max. at 1A, 6VDC | |
| Service Life | Mechanical | 10 ⁷ ops. |
| | Electrical | 10 ⁵ ops. |

COIL DATA

| Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ω)±10% | Power Consumption | Must Operate Voltage Max. (VDC) | Max. Allowable Voltage at 20°C (VDC) | Must Release Voltage Min. (VDC) |
|-------------------|-----------------------|--------------------|-------------------|---------------------------------|--------------------------------------|---------------------------------|
| 005 | 5 | 100 | 0.25W | 3.75 | 7.5 | 0.5 |
| 006 | 6 | 144 | | 4.50 | 9.0 | 0.6 |
| 012 | 12 | 576 | | 9.00 | 18.0 | 1.2 |
| 018 | 18 | 1,296 | | 13.50 | 27.0 | 1.8 |
| 024 | 24 | 2,304 | | 18.00 | 36.0 | 2.4 |
| 048 | 48 | 9,216 | | 36.00 | 72.0 | 4.8 |
| 060 | 60 | 12,857 | | 45.00 | 90.0 | 6.0 |

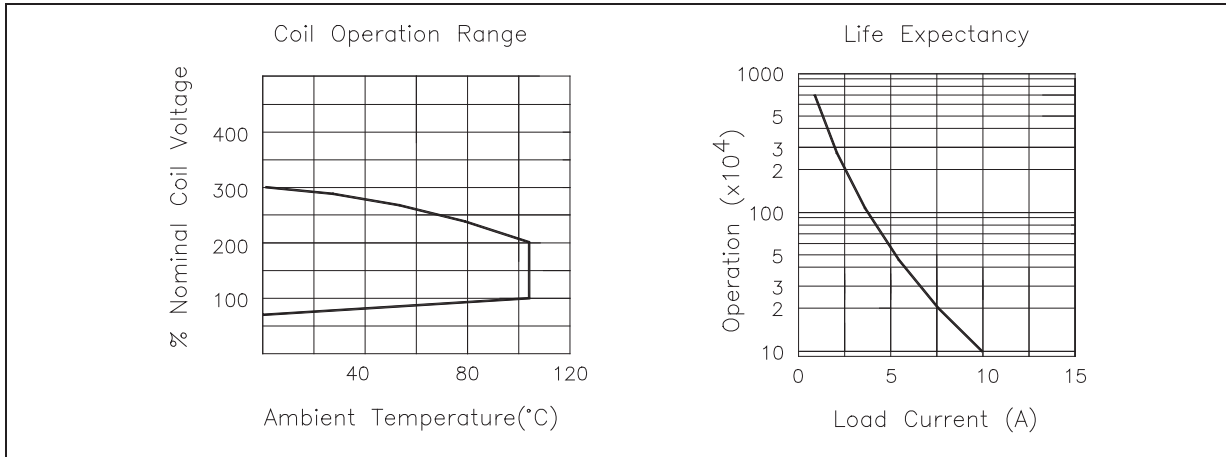
CHARACTERISTICS

| | |
|-----------------------|--|
| Operate Time | 7 ms. |
| Release Time | 3 ms. |
| Insulation Resistance | 1000 MΩ, at 500 VDC, 50%RH |
| Dielectric Strength | 5000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts |
| Shock Resistance | 10 g, 11ms. functional; 100 g, destructive |
| Vibration Resistance | 5 g / 10 g, 10 - 150 Hz |
| Ambient Temperature | -40°C to 85°C |
| Weight | 13.5 g, approx. |

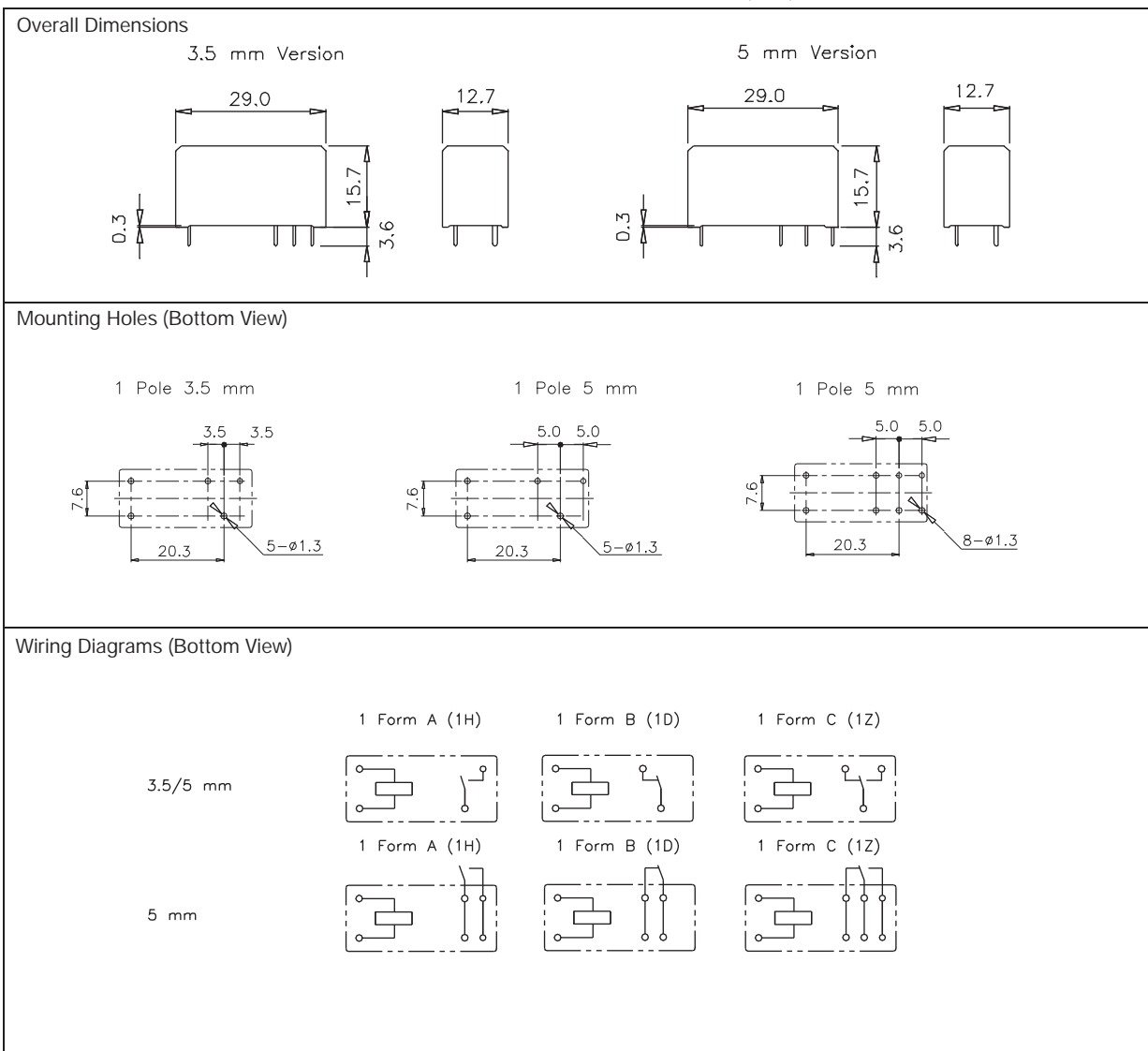
ORDERING DESIGNATION

| | | | | | | |
|--|-----------|-------|----|---|---|---|
| Example: | HG4509B / | 012 - | 1Z | 1 | A | 1 |
| Model | | | | | | |
| Coil Voltage Code | | | | | | |
| Contact Form | | | | | | |
| 1H: 1 Form | | | | | | |
| 1D: 1 Form B | | | | | | |
| 1Z: 1 Form C | | | | | | |
| Version | | | | | | |
| 1: Sealed; 2: Dust Cover | | | | | | |
| Contact Material | | | | | | |
| Nil: AgCdO; A: AgNi10; S: AgSnO; G: Au plated AgCdO; GA: Au plated AgNi10; GS: Au plated AgSnO | | | | | | |
| Structure Version | | | | | | |
| 1: 1 pole, 3.5 mm | | | | | | |
| 2: 1 pole, 5 mm | | | | | | |
| 3: 1 pole, 5 mm | | | | | | |

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Custom-made services available with operational quantity. Please let us know your special requirements.
3. Specifications subject to change without prior notice.

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