

## FEATURES

- 5A to 10A contact capacity
- Subminiature design
- 1 Form A, 1 Form C contact form
- Sealed and dust cover version for choice
- UL, CUR approved

## TYPICAL APPLICATIONS

- Household appliances
- Office machine
- Vending machine
- Audio equipment

## CONTACT RATING

|            |                                                                    |
|------------|--------------------------------------------------------------------|
| Form       | 1 Form A (H), 1 Form C (Z)                                         |
| Rated Load | 5A, 250VAC/30VDC (NO)<br>10A, 125VAC (NO)<br>3A, 250VAC/30VDC (NC) |

## CONTACT DATA

|                            |                          |                      |
|----------------------------|--------------------------|----------------------|
| Material                   | AgCdO                    |                      |
| Initial Contact Resistance | 100 mΩ max. at 1A, 24VDC |                      |
| Service Life               | Mechanical               | 10 <sup>7</sup> ops. |
|                            | Electrical               | 10 <sup>6</sup> ops. |

## COIL DATA

| Coil Votage Code | Nominal Voltage (VDC) | Resistance (Ω) ±10% |       |           |      | Must Operate Voltage max. (VDC) | Must Release Voltage min. (VDC) |
|------------------|-----------------------|---------------------|-------|-----------|------|---------------------------------|---------------------------------|
|                  |                       | Power Consumption   |       |           |      |                                 |                                 |
|                  |                       | Standard            |       | Sensitive |      |                                 |                                 |
| 003              | 3                     | 20                  | 0.45W | 45        | 0.2W | 2.25                            | 0.15                            |
| 005              | 5                     | 55                  |       | 125       |      | 3.75                            | 0.25                            |
| 006              | 6                     | 80                  |       | 180       |      | 4.50                            | 0.30                            |
| 009              | 9                     | 180                 |       | 400       |      | 6.75                            | 0.45                            |
| 012              | 12                    | 320                 |       | 720       |      | 9.00                            | 0.60                            |
| 018              | 18                    | 720                 |       | 1600      |      | 13.50                           | 0.90                            |
| 024              | 24                    | 1280                |       | 2800      |      | 18.00                           | 1.20                            |

## CHARACTERISTICS

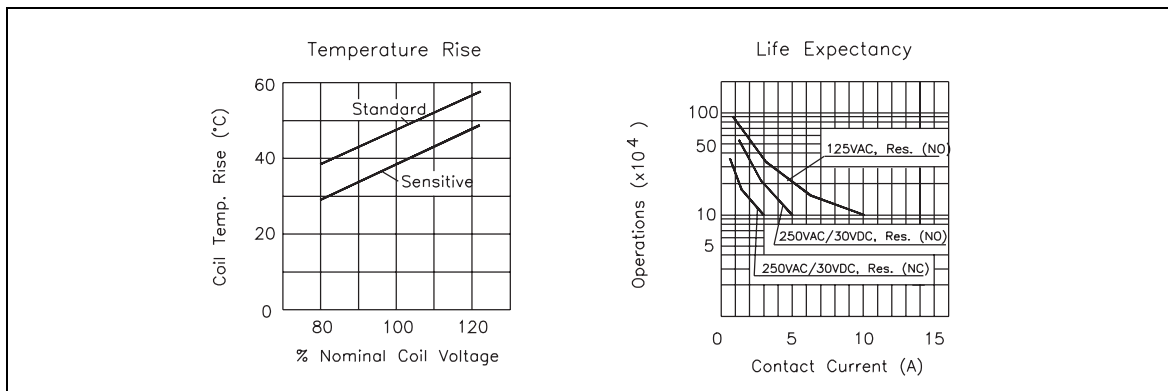
|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Operate Time          | 8 ms.                                                                                  |
| Release Time          | 5 ms.                                                                                  |
| Insulation Resistance | 1000 MΩ, at 500 VDC, 50%RH                                                             |
| Dielectric Strength   | 4000 Vrms, 1 min. between coil and contacts<br>1000 Vrms, 1 min. between open contacts |
| Shock Resistance      | 10 g, 11ms. functional; 100 g, destructive                                             |
| Vibration Resistance  | DA 1.6 mm, 10 - 55 Hz                                                                  |
| Ambient Temperature   | -40°C to 70°C                                                                          |
| Weight                | 7 g, approx.                                                                           |

## ORDERING DESIGNATION

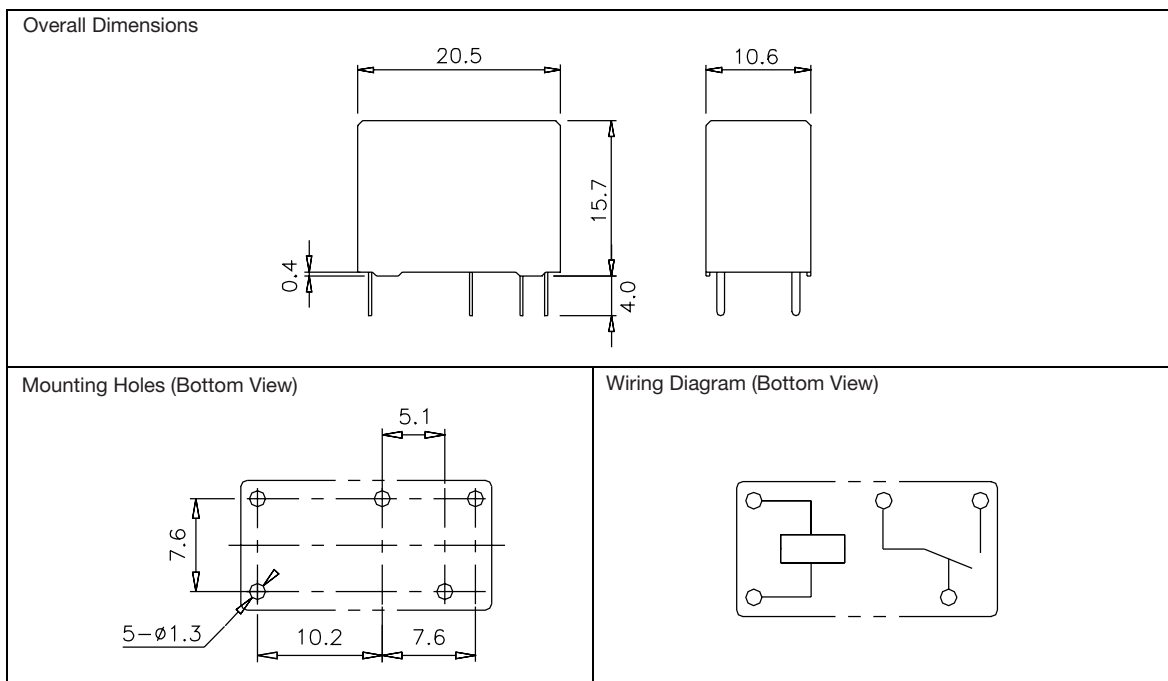
|                                                             |          |       |   |   |   |   |
|-------------------------------------------------------------|----------|-------|---|---|---|---|
| Example:                                                    | HG4503 / | 012 - | H | 1 | C | L |
| Model                                                       |          |       |   |   |   |   |
| Coil Voltage Code                                           |          |       |   |   |   |   |
| Contact Form<br>H: 1 Form A<br>Z: 1 Form C                  |          |       |   |   |   |   |
| Version<br>1: Sealed, 2: Dust Cover                         |          |       |   |   |   |   |
| Contact Material<br>C: AgCdO; S: AgSnOInO                   |          |       |   |   |   |   |
| Coil Sensitivity<br>Nil: Standard 0.45W; L: Sensitive 0.2W* |          |       |   |   |   |   |

\*Note: Sensitive 0.2W (L) is only available for 1 Form A (H)

## REFERENCE CURVES



## OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAM (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.