

FEATURES

- 5A switching capacity
- 1 Form A and 1 Form C configurations available
- 5KV dielectric strength between coil and contacts
- High sensitive 0.2W version available for 1 Form A
- UL, CSA and VDE approval in progress

CONTACT RATING

| | |
|------------------------|--|
| Form | 1 Form A (H), 1 Form C, (Z) |
| Rated Load | 1 Form A (H): 5A 250VAC / 30VDC; 1 Form C (Z): 3A 250VAC / 30VDC |
| Max. Switching Voltage | 250VAC/30VDC |
| Max. Switching Current | 5A |
| Max. Switching Power | 1250VA/150W |

CONTACT DATA

| | | |
|----------------------------|----------------------------|--------------------------|
| Material | AgNi10 | |
| Initial Contact Resistance | 70 mΩ, max. at 0.1A, 24VDC | |
| Service Life | Mechanical | 1 x 10 ⁶ ops. |
| | Electrical | 1 x 10 ⁵ ops. |

COIL DATA

| Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ohm) ± 10% | | Allowable Voltage Max. (VDC) | | Must Operate Voltage Max. (VDC) | Must Release Voltage Min. (VDC) |
|-------------------|-----------------------|------------------------|------------------|------------------------------|------------------|---------------------------------|---------------------------------|
| | | Standard (0.45W) | Sensitive (0.2W) | Standard (0.45W) | Sensitive (0.2W) | | |
| 003 | 3 | 20 | 45 | 3.9 | 5.1 | 2.25 | 0.15 |
| 005 | 5 | 55 | 125 | 6.5 | 8.5 | 3.75 | 0.25 |
| 006 | 6 | 80 | 180 | 7.8 | 10.2 | 4.50 | 0.30 |
| 009 | 9 | 180 | 400 | 11.7 | 15.3 | 6.75 | 0.45 |
| 012 | 12 | 320 | 720 | 15.6 | 20.4 | 9.00 | 0.60 |
| 018 | 18 | 720 | 1600 | 23.4 | 30.6 | 13.50 | 0.90 |
| 024 | 24 | 1280 | 2800 | 31.2 | 40.8 | 18.00 | 1.20 |

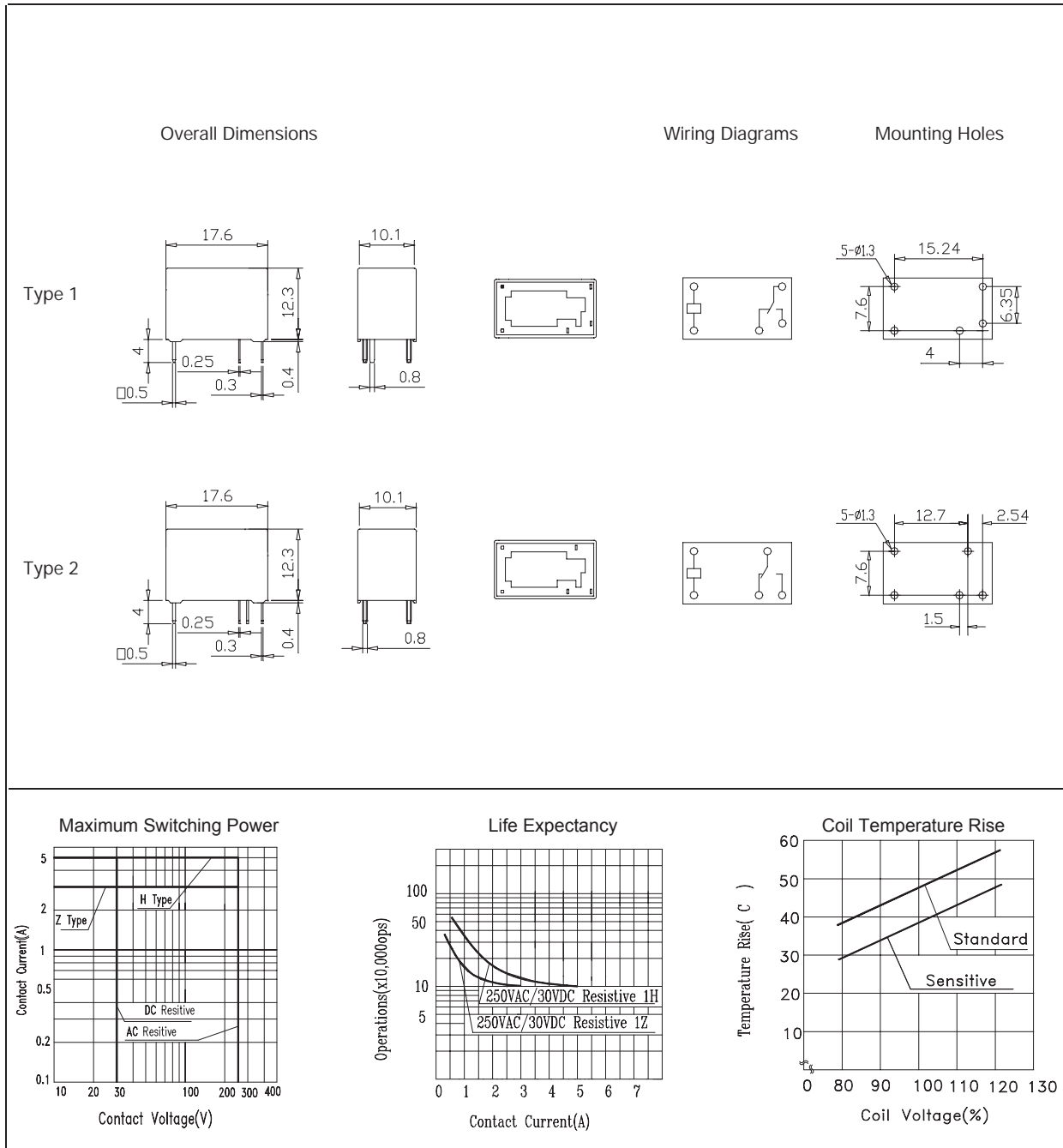
CHARACTERISTICS

| | |
|-------------------------------|--|
| Operate Time | 8 ms., typical |
| Release Time | 4ms., typical |
| Initial Insulation Resistance | 1,000MΩ, at 500VDC |
| Dielectric Strength | Between coil and contacts: 5,000Vrms, 1 Min. Between open contacts: 1,000Vrms, 1 Min. |
| Surge Voltage | Between coil and contacts: 1,000V (1.2 x 50 μs) |
| Shock Resistance | Functional: 10 g; Destructive: 100 g |
| Vibration Resistance | 1.65mm, 10 to 55 Hz |
| Power Consumption | Standard: 0.45W; Sensitive: 0.2W |
| Ambient Temperature | -40°C to 70°C |
| Weight | 4.6g approx. |

ORDERING DESIGNATION

| | | | | | | | |
|--|----------|------|---|---|---|---|---|
| Example: | HG4548 / | 012- | Z | 1 | C | L | 1 |
| Model | | | | | | | |
| Coil Voltage Code | | | | | | | |
| Contact Form | | | | | | | |
| H: 1 Form A; Z: 1 Form C | | | | | | | |
| Version | | | | | | | |
| 1: Sealed | | | | | | | |
| Contact Material | | | | | | | |
| Nil: AgNi10 | | | | | | | |
| Coil Sensitivity | | | | | | | |
| Nil: Standard 0.45W; L: Sensitive 0.2W (For 1 Form A (H) only) | | | | | | | |
| Footprint Version Code (See Drawing) | | | | | | | |
| 1: Type 1 | | | | | | | |
| 2: Type 2 | | | | | | | |

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.

Willow Technologies Limited
 Shawlands Court, Newchapel Road
 Lingfield, Surrey, England. RH7 6BL
 Tel: +44 (0) 1342 835234
 Fax: +44 (0) 1342 834306
 email: sales@willow.co.uk
 http://www.willow.co.uk