

FEATURES

- 30A continuous current capacity
- Rough construction suitable for automotive uses
- Available with open, dust cover and sealed version

TYPICAL AUTOMOTIVE APPLICATIONS

- Ventilation motor
- Power window
- Intermittent wiper
- Alarm system
- Inertia valve control
- Rear window heating
- Safety belt warning system

CONTACT DATA

| | | | | |
|----------------------------|---------------------------|-------------------------------------|--------------|--------------|
| Form | | 1 Form A (H) | 1 Form B (D) | 1 Form C (Z) |
| Max. Switching Current | Make | 60A | 45A | NO60A/NC30A |
| | Break | 30A | 20A | NO30A/NC15A |
| Material | AgNi0.15, AgCdO, AgSnOInO | | | |
| Initial Contact Resistance | 100 mΩ max. at 0.1A, 6VDC | | | |
| Max. Switching Voltage | 75VDC | | | |
| Max. Continuous Current | | 30A | 20A | NO30A/NC15A |
| Min. Load | 0.1A, 12VDC | | | |
| Service Life | Mechanical | 10 ⁷ ops. | | |
| | Electrical | 2 x 10 ⁵ ops, see Note 4 | | |

COIL DATA

| Coil Voltage Code | Nominal Voltage (VDC) | Resistance (Ω) ±10% | Must Operate Voltage max. (VDC) | Allowable Voltage (VDC) | Must Release Voltage min. (VDC) |
|-------------------|-----------------------|---------------------|---------------------------------|-------------------------|---------------------------------|
| 006 | 6 | 27 | 3.6 | 11.7 | 0.6 |
| 012 | 12 | 97 | 7.2 | 22.2 | 1.2 |
| 024 | 24 | 380 | 14.4 | 43.9 | 2.4 |

CHARACTERISTICS

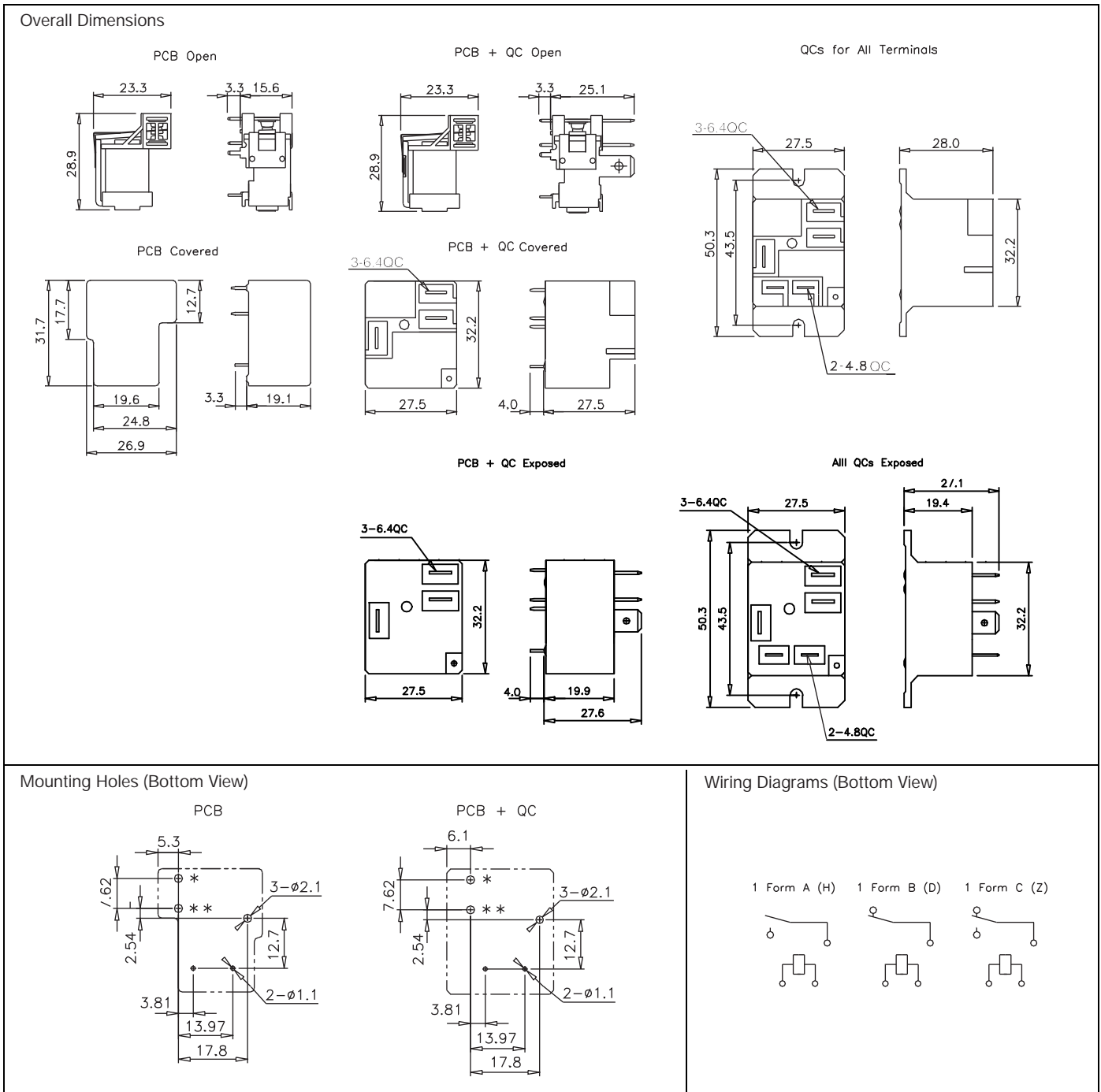
| | |
|-----------------------|--|
| Operate Time | 9 ms. typical |
| Release Time | 7 ms. typical |
| Insulation Resistance | 100 MΩ, at 500 VDC, 50%RH |
| Dielectric Strength | 500 Vrms, 1 min. |
| Shock Resistance | 20 g, 11ms. |
| Vibration Resistance | 10-40Hz: DA 1.27mm; 40-70Hz: 5 g; 70-100Hz: DA 0.5mm; 100-500Hz: 10 g. |
| Drop Resistance | 1 M height drop on concrete (Covered types only) |
| Power Consumption | 1.5 W, approx. |
| Ambient Temperature | -40°C to 125°C operating; -40°C to 155°C storage |
| Weight | Open: 20 g; Covered: 26 g, approx. |

ORDERING DESIGNATION

| | | | | | | | | |
|---|----------|-----|---|---|---|---|---|---|
| Example: | HG4234A/ | 012 | Z | 1 | C | A | F | B |
| Model | | | | | | | | |
| Coil Voltage Code | | | | | | | | |
| Contact Form | | | | | | | | |
| H: 1 Form A; D: 1 Form B; Z: 1 Form C | | | | | | | | |
| Version | | | | | | | | |
| Nil: Open; 1: Sealed; 2: Dust Cover | | | | | | | | |
| Contact Material | | | | | | | | |
| Nil: AgNi10; A: AgNi0.15; C: AgCdO; S: AgSnOInO | | | | | | | | |
| Mounting & Termination Code | | | | | | | | |
| A: PCB B: PCB+QCs for Contacts C: QCs for All Terminals | | | | | | | | |
| Thermal Class | | | | | | | | |
| Nil: UL Class B; F: UL Class F | | | | | | | | |
| QCs Terminal Options* | | | | | | | | |
| Nil: Shrouded QCs; B: All QCs Exposed | | | | | | | | |

*Note: QCs Terminal Options are not applicable for PCB Mounting & Termination Code A

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. In mounting holes drawing, the * hole is not needed for 1 Form A, the ** hole is not needed for 1 Form B.
3. To exert optimum electrical life, please remove the tape tab/knock-off of sealed version after cleaning process.
4. Custom-made services available with operational quantity. Please let us know your special requirements.
5. Specifications subject to change without prior notice.

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