

Automotive Miniature PCB Power Relay

HG4234A



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

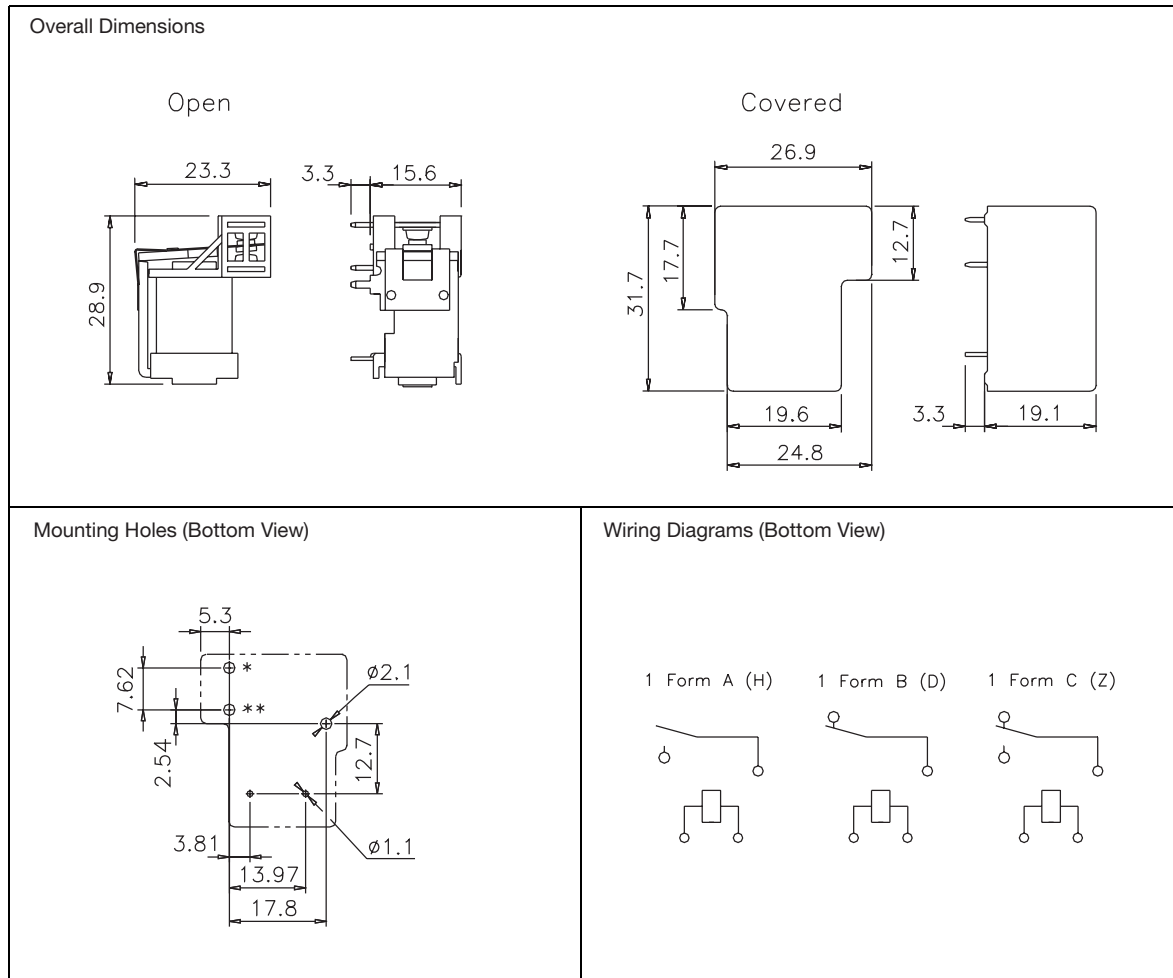
CHARACTERISTICS

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 -	H	1	A	F
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						
Thermal Class						
Nil: UL Class B; F: UL Class F						

OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
2. Maximum make current refers to inrush current of motor load.
3. At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%.
4. Electrical life obtained at resistive or inductive load at 30A, 15VDC with suitable arc-suppression circuit attached with operating frequency of 1 ops/sec.
5. In mounting holes drawing, the * hole is not needed for 1 Form A; the ** hole is not needed for 1 Form B.
6. Custom-made services available with operational quantity. Please let us know your special requirements.
7. Specifications subject to change without prior notice.