

Subminiature PCB Power Relay

Automotive Subminiature PCB Power Relay

HG4231
HG4231A



FEATURES

- Subminiature type, compact design
- Heavy duty, contact capacity up to 12A, 120VAC and 20A, 16VDC
- Low cost PCB relay

TYPICAL APPLICATIONS

- Office machine
- Home appliances
- Audio equipment
- Automotive control

CONTACT RATING

Type	HG4231	HG4231A
Resistive	12A, 120VAC 12A, 28VDC 7A, 240VAC	20A, 16VDC

UL/CSA/TUV/VDE RATING

Type	HG4231
Resistive	12A, 120VAC (UL/CSA) 12A, 28VDC (UL/CSA/TUV/VDE) 6A, 250VAC (TUV/VDE)
TV	5A, 120VAC(NO) (UL/CSA)

CONTACT DATA

Material	AgCdO	
Initial Contact Resistance	100 mΩ max. at 0.1A, 6VDC	
Service Life	Mechanical	10 ⁷ ops.
	Electrical	10 ⁵ ops.

COIL DATA

Type	Coil Voltage Code	Nominal Voltage (VDC)	Resistance (Ω) ± 10%				Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)
			Power Consumption					
			Standard		Sensitive			
HG4231	003	3	20	0.45W	25	0.36W	2.25	0.3
	006	6	80		100		4.5	0.6
	009	9	180		225		6.75	0.9
	012	12	320		400		9.0	1.2
	018	18	720		900		13.5	1.8
	024	24	1280		1600		18.0	2.4
	048	48	4500		6400		36.0	4.8
HG4231A	006	6	45	0.8W			3.2	0.6
	012	12	180				6.3	1.2
	024	24	720				12.6	2.4

CHARACTERISTICS

Operate Time	10 ms. typical
Release Time	5 ms. typical
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH
Dielectric Strength	1000 Vrms, 1 min. between coil and contacts 1000 Vrms, 1 min. between open contacts
Shock Resistance	10 g, 11ms. functional; 100g, destructive
Vibration Resistance	DA 1.5mm, 10 - 55 Hz, functional
Power Consumption	HG4231: Standard 0.45W; Sensitive: 0.36W HG4231A: 0.8W
Ambient Temperature	HG4231: -40°C to 70°C; HG4231A: -40°C to 85°C
Weight	10 g, approx.

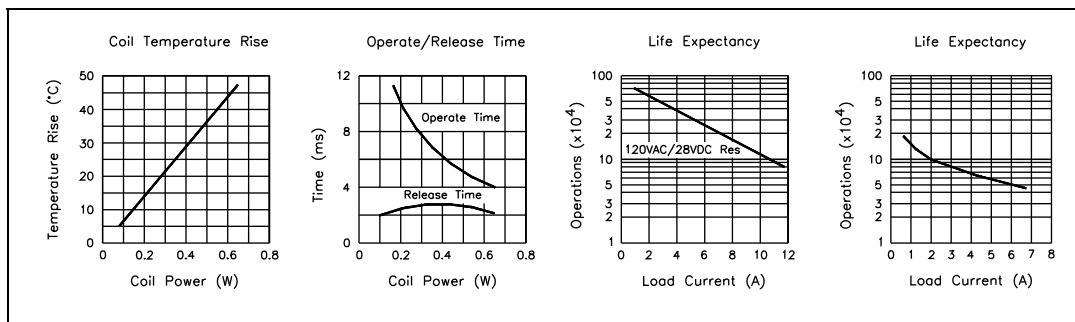
HG4231

HG4231A

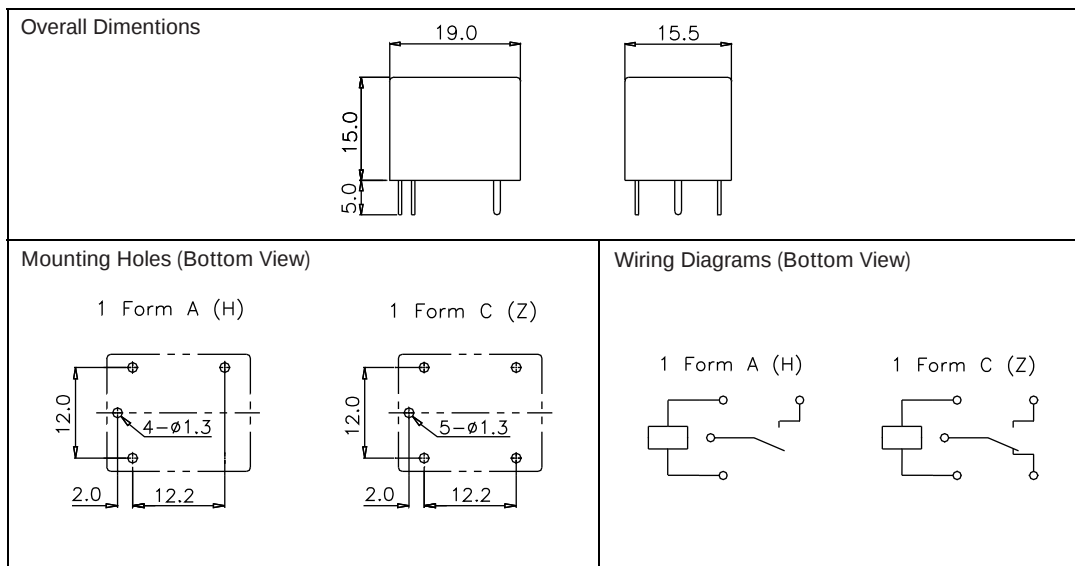
ORDERING DESIGNATION

Example:	HG4231	A /	012-	Z	1	C	L
Model							
Type							
Nil: General Purpose							
A: Automotive							
Coil Voltage Code							
Contact Form							
H: 1 Form A; D: 1 Form B; Z: 1 Form C							
Version							
1: Sealed; 2: Flux Free; 3: Dust Cover							
Contact Material							
Nil: AgNi10; A: AgNi0.15; C: AgCdO; S: AgSnOInO							
General Purpose Type Coil Sensitivity							
Nil: Standard 0.45W; L: Sensitive 0.36W							

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.

TYH Enterprise Limited
Room 1620B, Nan Fung Centre
264-298 Castle Peak Road
Tsuen Wan, N.T.
Hong Kong
Tel: 852-2416-0132
Fax: 852-2413-6229
http://www.tyhhk.com
email: info@tyhhk.com

Plant: Shanghai Hi-Gradex Relay Mfg. Co., Ltd
918 Shixin Road
Airport Town
Pudong New Area
Shanghai 201202
China
Tel: 86-21-6299-5619 / -5877
Fax: 86-21-6299-5619
email: tyhesh@online.sh.cn