

Automotive Miniature PCB Power Relay



FEATURES

- 30 to 45A continuous current capacity
- Available with two footprints
- Available with open, dust cover and sealed version
- Automotive-oriented design •

TYPICAL AUTOMOTIVE APPLICATIONS

- Flasher •
- Interval wiper control
- Fuel pump control Ventilation motor Alarm system .

- Safety belt warning system
- Inertia valve control
- Automatic mirror adjustment • .

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- Sliding roof control •
- Hazard light •
 - Heater control
 - Rear window heating
- Air conditioning •
- Central door lock •
- ABS •
- Belt tension adjustment
- Power window •
- Seat positioning

CONTACT DATA

Form		1 Form A (1H)	1 Form B (1D)	1 Form C (1Z)		
FOITI		T FUITI A (TH)		NO	NC	
Max. Switching Current	Make	100A (S: 180A)	30A	100A (S: 180A)	30A	
	Break	60A	30A	60A	30A	
Material	AgNi0.15, AgSnOlnO					
Initial Contact Resistance	е		100 m Ω max.	at 0.1A, 6VDC		
Max. Switching Voltage	g Voltage See curve, current dependent					
Max. Continuous Curren	t	45A	30A	45A	30A	
Min. Load		0.5A, 12VDC				
Service Life	Mechancial	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	19	3.3	8.9	0.6
012	12	90	6.8	19.3	1.2
024	24	362	13.9	38.7	2.4

CHARACTERISTICS

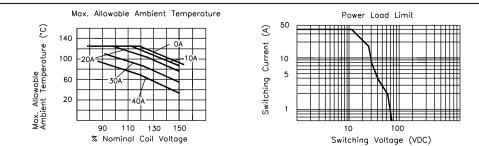
Operate Time	5 ms. typical
Release Time	3 ms. typical
Insulation Resistance	100 MΩ, at 500 VDC, 50%RH
Dielectric Strength	500 Vrms, 1 min.
Shock Resistance	20 g, 11 ms.
Vibration Resistance	DA 1.5mm, 20 - 200 Hz, functional
Drop Resistance	1 M height drop on concrete in final enclosure
Power Consumption	1.5W, approx.
Ambient Temperature	-40°C to 125°C operating; -40°C to 155°C storage
Weight	Open: 18 g; Covered: 23 g, approx.

ORDERING DESIGNATION

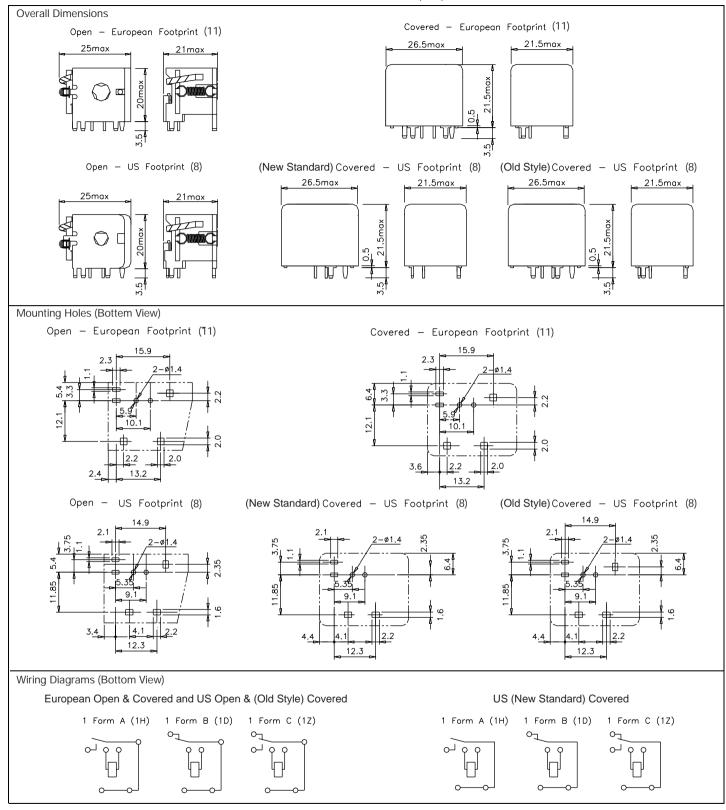
Example: HG4119 / 012 -	1H	11	- 1	А
Coil Voltage Code				
Contact Form 1H: 1 Form A ; 1D: 1 Form B ; 1Z: 1 Form C	-			
Footprint 8: US; 11: European		-		
Version Nil: Open; 1: Sealed; 2: Dust Cover			-	
Contact Material Nil: AgNi10; A: AgNi0.15; C: AgCdO; S: AgSnOInO				_

For Sealed or Dust Cover US Footprint Nil: New Standard (with 1 common pin less); D: Old Style (Discontinued for New Designs)

REFERENCE CURVES



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

- All parameters, unless otherwise specified, are measured at ambient temperature 23°C. 1.
- 2. Maximum make current refers to inrush current of lamp load.
- At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%. 3.
- 4. Electrical life obtained at resistive or inductive load at 40A, 15VDC with suitable arc-suppression circuit attached with operating frequency of 1 ops/sec.

Plant:

- 5. Custom-made services available with operational quantity. Please let us know your special requirements.
- 6. Specifications subject to change without prior notice.

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