

Automotive Miniature PCB Power Relay

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FEATURES

Sliding roof control

Hazard light

Heater control

• Rear window heating

- 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
 - Air conditioning •
- Automatic mirror adjustment 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)			
				NO	NC		
Max. Switching Current	Make	100A (S: 180A)	30A	100A (S: 180A)	30A		
······································	Break	60A	30A	60A	30A		
Material		AgNi0.15, AgSnOInO					
Initial Contact Resistance		100 mΩ max. at 0.1A, 6VDC					
Max. Switching Voltage		See curve, current dependent					
Max. Continuous Current		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

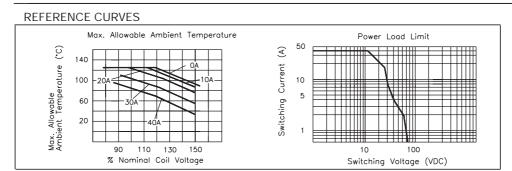
CHARACTERISTICS

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.

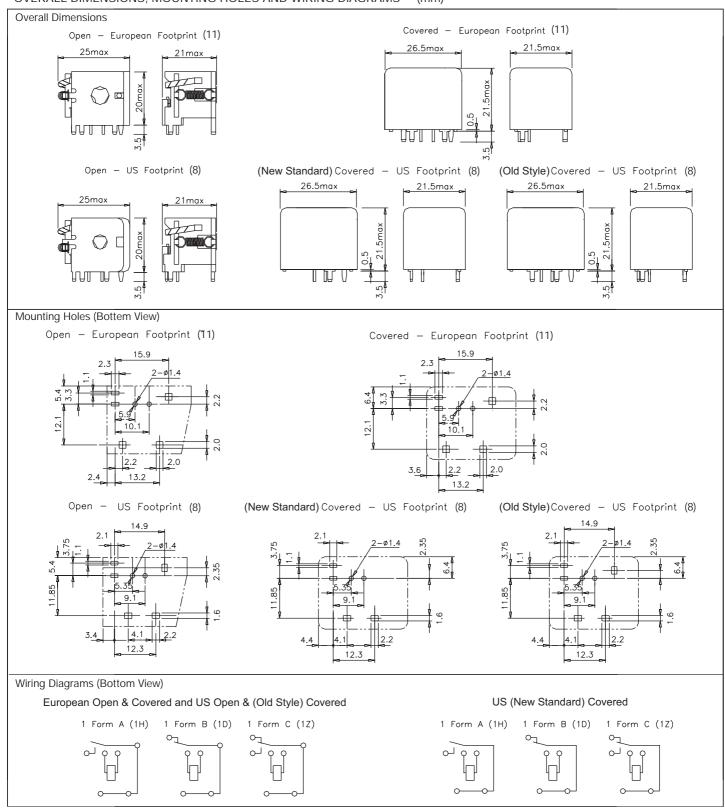
ORDERING DESIGNATION

ONDERNIO	DEGIGINITION							
ļ	Example: HG4119 /	012 -	1H	11	- 1	A		- P
Model								
Coil Voltage	Code							
Contact Forn 1H: 1 Form A	n \; 1D: 1 Form B; 1Z: 1	Form C	-					
Footprint	8: US; 11: European			-				
Version Nil: Open; 1: Sealed; 2: Dust Cover								
Contact Mate	erial Nil: AgNi10; A: Ag	gNi0.15;	S: AgSnC)InO		•		
	r Dust Cover US Footpr		D. O.I.I.C.	ula (Diana)			-	
INII: New Star	ndard (with 1 common p	oin iess);	D: UID St	yie (Discor	ntinued for	new Des	signs)	

RoHS Compliant (lead-free): - P



OVERALL DIMENSIONS, MOUNTING HOLES AND WIRING DIAGRAMS (mm)



NOTES

RH7 6BL

- 1. All parameters, unless otherwise specified, are measured at ambient temperature 23°C.
- 2. Maximum make current refers to inrush current of lamp 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 40A, 15VDC with suitable arc-suppression circuit attached with operating frequency of 1 ops/sec.
- 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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