

812HM



>>> Features

☐ High performance sugar cube automotive relay.
 ☐ Heavy duty suitable for wiper motor control, flashing lamp control, adjustable driver seat motor control, etc.
 ☐ Optional for flux-free type or sealed washable type.
 ☐ Complies with RoHS-Directive 2011/65/EU, and ELV-Directive 2000/53/EC.

>>> Type List

Terminal	Contact	Designation (provided with)				
style			Sealed type	Sealed type washable		
DCR terminal	1A (SPNO)	812HM-1A-C	812HM-1A-V	812HM-1A-S		
PCB terminal	1C (SPDT)	812HM-1C-C	812HM-1C-V	812HM-1C-S		

>>> Ordering Information

812	Н	М	-	1C	-	С	
1	2	3		4		5	6

- 1. 812 -- Basic series designation
- 2. H -- High power type
- 3. M -- Automotive relay
- 4. 1A -- Single pole normally open1C -- Single pole double throw

- 5. C -- Flux tight
 - V -- Sealed type
 - S -- Sealed type washable
- 6. -- Coil voltage (please refer to the coil rating data for the availability)

>>> Contact Rating

Resistive load	15A 14VDC	Motor load	5A 14VDC Inrush 25A
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>>> Coil Rating (DC)

Rated	Rated current	Coil resistance	Max. continuous	Pick up	Drop out	Power consumption
voltage	±10 % at 23°C	±10 % at 23°C	voltage	voltage(Max.)	voltage(Min.)	at rated
(V)	(mA)	(Ω)	at 85°C ⁽¹⁾	at 23°C	at 23°C	voltage
9	71.4	126	133 % of	65 % of	5 % of	
12	53.3	225	rated	rated	rated	approx. 0.64W
24	26.7	900	voltage	voltage	voltage	

Note: (1) Continuous contact current at 10A.

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>>> Specification

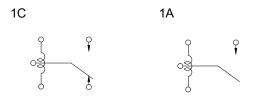
Contact material	AgSnO alloy			
Contact voltage drop (1)	Typ. 50mV at 10A			
Operate time (1)	15ms Max.			
Release time (1)	10ms Max.			
Insulation resistance (1)	100 MΩ Min. (DC 500V)			
Dielectric strength (1)	Between open contact : AC 500V , 50/60Hz 1 min.			
Dielectric strength V	Between contact and coil : AC 500V , 50/60Hz 1 min.			
Vibration resistance	Operating extremes	10∼500Hz , 4.4G		
Vibration resistance	Damage limits	10∼500Hz , 4.4G		
Shock resistance	Operating extremes	10G		
Shock resistance	Damage limits	100G		
	Mechanical	10,000,000 operations		
Life evenestoney		(frequency 18,000 operations/hr)		
Life expectancy	Electrical	100,000 operations		
		(frequency 1,200 operations/hr)		
Operating ambient temperature	-40∼+85°C (no freezing)			
Weight	Approx. 10 g			

Note: (1) Initial value. Operate and release time excluding contact bounce.

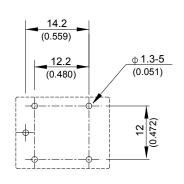
>>> Outline Dimensions

TOLERANCE: LESS THAN: 1(0.039) ±0.1(0.004) 5(0.197) ±0.3(0.012) 2(0.787) ±0.5(0.012) 2(0.787) ±0.5(0.039) MORE THAN: 20(0.787) ±1(0.039)

>>> Wiring Diagram



>>> PC Board Layout BOTTOM VIEW





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>>> Engineering Data

