

TYPE : MV002 Series Relay

Revised : 2015-01-24 Issued : 2012-08-22



Type List

Terminal		Contact			Designation (provided with)									
style	form				Dust cover						Flux tight	Flanged cover (Dust cover)		
							MV002-1AH-F-D						MV002-1AH-F-D1	
Plug-in terminal		1A (SPDM)			MV002H-1AH-F-D							MV002H-1AH-F-D1		
DCD torminal											MV002P-1AH-F-C			
PCB terminal											MV002HP-1AH-F-C			
Ordering I	nformati	on												
MV002	2 H	Ρ-	1A	Н	-	F	-	С	-	R	1	XXX		
1	2	3	4	5		6		7		8		9		
1. MV002	Basi	c serie	es des	ignat	ion					ŝ	S	Sealed type washable		
										[D1 Flanged cover (Dust cover)			
2. Blank	Stan	Standard								(C1	Flanged cover (Flux tight)		
Н	High power type					5	S1	Flanged cover (Sealed type washable)						
							[D1SW Steel bracket (dust cover with weather						
3. Blank	Socł	ket terminal							proof)					
Р	PCB	terminal						[D1SF	1SF Steel bracket (dust cover with shroud)				
										[D1S	Steel bracket (dus	st cover)	
4. 1A	Sing	le-pole	e, doul	ble-n	nake	e (SF	PDM)		(C1S	Steel bracket (flux tight)		
					ŝ	S1S	S Steel bracket (sealed type washable)							
5. H	Contact material Ag alloy													
										8. I	Blank	 Standard type 		
6. Blank	ank Standard type						ł	R1	Coil parallel with resistor 1/2W for					
F	Clas	s F										12V 680Ω		
7. D	Dust	Just cover					9.)	ххх	Special feature co	ode				
С	Flux	tight												

Contact Rating

Туре	Standard	High power type		
Poted load (Posistiva)	30A 60VDC	40A 60VDC		
Raleu Ioau (Resistive)	20A 72VDC			
Max. Switching Capacity	1800W	2400W		



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■ Coil Rating (DC)

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Pick up Voltage (Max) at 23°C	Drop out Voltage (Min) at 23°C	Max. continuous voltage at 23°C ⁽¹⁾	Power consumption at rated voltage
12	133.3	90	75% of	5% of	130% of	
24	66.7	360	rated	rated	rated	approx. 1.6W
48	33.3	1440	voltage	voltage	voltage	

Notes : (1) Without contact load.

Specification

Contact material	Ag alloy					
Voltage drop ⁽¹⁾	Typ.50 mV at 10A					
Operate time ⁽¹⁾	20ms Max.					
Release time ⁽¹⁾	20ms Max.					
Insulation resistance (1)	20MΩ Min. (DC 500V)					
Dialactria atranath ⁽¹⁾	Between open contact : AC 750V, 50/60Hz 1 min.					
	Between contact and coil : AC 750V, 50/60Hz 1 min.					
Vibratian registance	Operating extremes	10~500Hz, 5.0G				
VIDIATION TESIStance	Damage limits	10~500Hz, 5.0G				
Shock registered	Operating extremes	10G				
Shock resistance	Damage limits	100G				
	Mechanical	1000,000 operations				
Life expectancy	Weenamear	(frequency 9,000 operations/hr)				
	Electrical	10,000 operations				
	Liectrical	(frequency 600 operations/hr)				
Operating ambient temperature	-40~+85°C (no freezing)					
Weight	Approx. 40 g					

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

- (2) All tests are conducted under room temperature and room humidity.
- (3) Consider the heat of PCB is necessary, please check the actual condition of PCB.
- (4) If it includes ripple, the ripple factor should be less than 5%. And do not have a parallel connection with diode for the purpose of coil surge instead of diode, a varistor (ZNR) is recommend for the absorber.
- (5) Do not use the relay exceeding the coil rating, contact rating and life expectancy, or this may cause the risk of overheating.
- (6) To assure optimum performance, avoid the relay from dropping, hitting, or other unnecessary shocks.
- (7) Do not switch the contacts without any load as the contact resistance may become increased rapidly.