



FEATURES

- 20A switching capability
- 6 kinds of contact arrangement
- Open type and Sealed type available

CHARACTERISTICS

Contact arrangement	1A, 1B, 1C, 2A, 2B, 2C	
Voltage drop (initial) ¹⁾	Typ:20mV(at 10A)	
	Max:250mV(at 10A)	
Max.switching current	Make:100A(Lamp,Inrush current)	
	Break:60A	
Max.switching voltage	75VDC ²⁾	
Min.contact load	0.5A 6VDC	
Electrical life	1×10 ⁵ ops	
Mechanical life	1×10 ⁷ ops	300ops/min
Initial insulation resistance	100MΩ (500VDC)	
Dielectric strength	500VAC (1min)	
	500VAC (1min,leakage current less than 1mA)	
Operate time	Max:10ms	
Release time	Max:10ms	
Ambient temperature	-40℃~+85℃	
Storage temperature	-40℃~+85℃	
Vibration resistance	10Hz~55Hz 1.27mm DA	
Shock resistance	(11ms)	
Termination	PCB	
Construction	Sealed IP67, Open	
Unit weight	Sealed IP67, Approx:12g	
	Open Approx:8g	

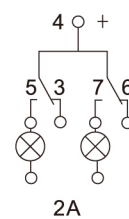
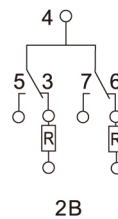
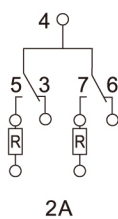
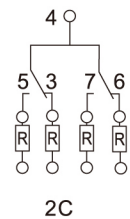
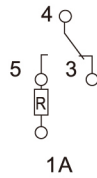
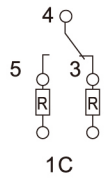
Equivalent to the max, initial contact resistance is 100mΩ (1A 6VDC);

CONTACT DATA

Load voltage	Load type		Load current (A)				On/Off ratio		Electrical life (OPS)	Contact material	Load wiring diagram
			1C		1A	1B	On (s)	Off (s)			
			NO	NC	NO	NC					
13.5VDC	Resistive	Make	15	10	15	10	2	2	2x10 ⁵	AgSnO2 AgNi	See diagram 1
		Break	15	10	15	10	2	2			
	Lamp	Make	3x21W	---	3x21W	---	2	2	1.5x10 ⁵	AgSnO2	See diagram 2
		Break		---		---	2	2			

Load voltage	Load type		Load current(A)				On/Off ratio		Electrical life (OPS)	Contact material	Load wiring diagram
			2C		2A	2B	On (s)	Off (s)			
			NO	NC	NO	NC					
13.5VDC	Resistive	Make	2x7	2x5	2x7	2x5	2	2	2x10 ⁶	AgSnO ₂ AgNi	See diagram 3
		Break	2x7	2x5	2x7	2x5	2	2			
	Lamp	Make	6x21W	---	6x21W	---	2	2	1.5x10 ⁶	AgSnO ₂	See diagram 2
		Break		---		---	2	2			
	Flasher	Make	4x21W x2	---	4x21W x2	---	0.375	0.375	2x10 ⁶	AgSnO ₂ AgNi	See diagram3
		Break		---		---					
	Lamp	Make	2x21W +1x5W x2	---	2x21W +1x5W x2	---	0.2	3	1.5x10 ⁶	AgSnO ₂	See diagram 4
		Break		---		---					

Remark: 1) AgSnO₂ contact is suitable for the lamp load, inductive load and motor load, while AgNi contact is suitable for resistive load;
2) The load wiring diagrams are listed below. When special AgSnO₂ contacts are applied, please heed the anode and cathode's request when wired.



COIL DATA

at 23℃

Normal voltage (VDC)	Pick-up voltage (VDC)		Drop-out voltage (VDC)		Coil resistance (Ω ±10%)	Power consumption (W)	Max. allowable overdrive voltage ¹⁾ (VDC)
	1A, 1B, 1C, 2A, 2B	2C	1B, 2B	1A, 1C, 2A, 2C			
6	3.75	4.5	0.35	0.7	28	1.1	9.0
12	7.5	9.0	0.7	1.4	130	1.1	19.6
24	15	18.0	1.4	2.8	520	1.1	39.3

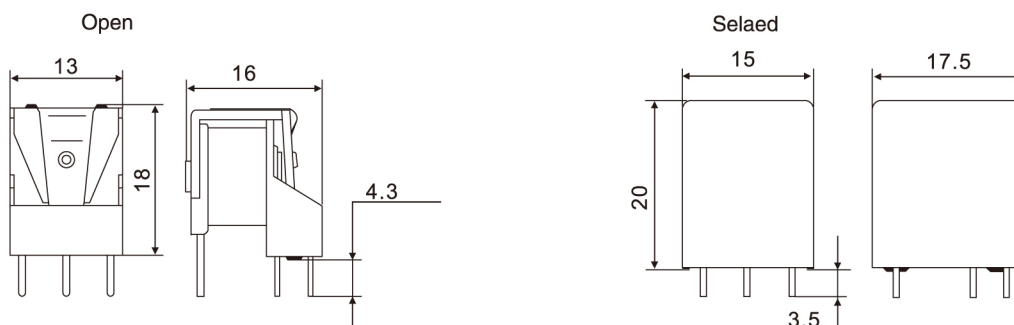
Max. allowable overdrive voltage is stated with 10A load applied.

ORDERING INFORMATION

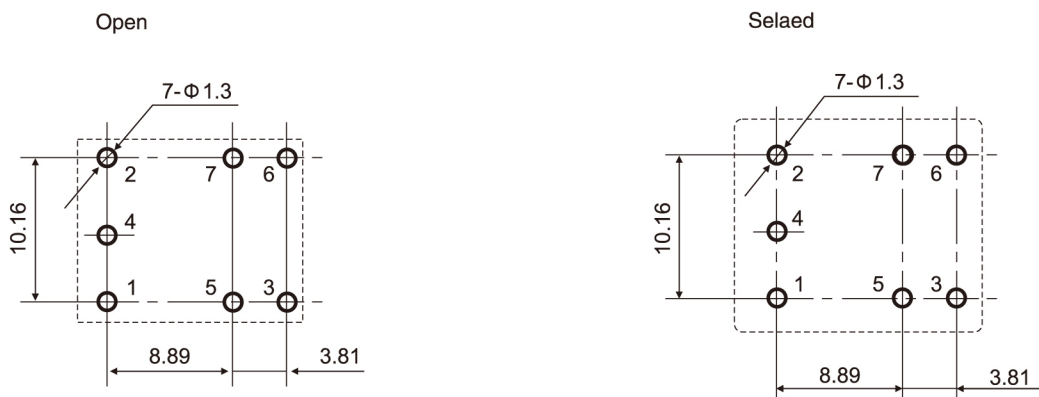
	MAF			-S-		1	12	-C
Type								
Contruction	S-sealed nil-Open type							
Contact group	1 : 1group							
Coil voltage	6, 12,24VDC							
Contact form	A-NO	B-NC	C-NO/NC	2A-2NO	2B-2NC	2C-2NO/2NC		

OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

Outline Dimensions

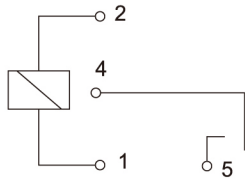


PCB Layout

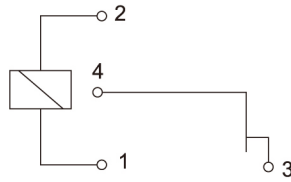


OUTLINE DIMENSIONS, WIRING DIAGRAM AND PC BOARD LAYOUT

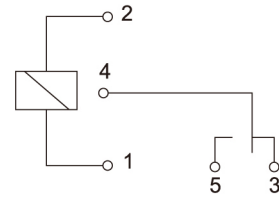
Wiring Diagram



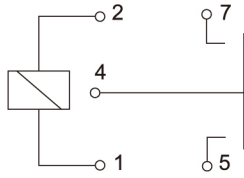
1A



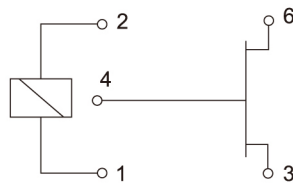
1B



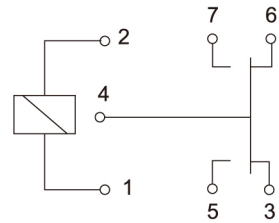
1C



2A



2B



2C

Remark: 1) In case of no tolerance shown in outline dimension: outline dimension $\leq 1\text{mm}$, tolerance should be $\pm 0.2\text{mm}$; outline dimension $> 1\text{mm}$ and $\leq 5\text{mm}$, tolerance should be $\pm 0.3\text{mm}$; outline dimension $> 5\text{mm}$, tolerance should be $\pm 0.4\text{mm}$.
2) The tolerance without indicating for PCB layout is always $\pm 0.1\text{mm}$.