



FEATURES

- 30A switching capability
- Ambient temp can reach 125℃
- 1 form A & form C contact arrangement
- Dust protected type
- Outline dimensions: 23.0×15.5×44.2 mm

CHARACTERISTICS

Contact arrangement	(1A)(1C)	
Voltage drop (initial) ¹⁾	Typ:50mV(at 10A)	
	Max.:250mV(at 10A)	
Max.switching current	Resistive:30A	
Max.switching voltage	Resistive:27VDC	
Min.contact load	1A 6VDC	
Electrical life	1×10 ⁵ ops	
Mechanical life	1×10 ⁷ ops	300ops/min
Initial insulation resistance	500M Ω (500VDC)	
Dielectric strength	500VAC (1min)	
	500VAC (1min,leakage current less than 1mA)	
Operate time	Typ:5ms	
	Max:10ms	
Release time	Typ:5ms	
	Max:10ms	
Ambient temperature	-40℃~+125℃	
Storage temperature	-40℃~+85℃	
Vibration resistance	10Hz~500Hz 49m/s ² (5g)	
Shock resistance	196m/s ² (20g)	
Termination	QC& PCB	
Construction	Dust protected	
Unit weight	Approx:22g	
Mechanical data	Cover retention : (pull & push)200N	
	Terminal retention : (pull & push)100N	
	Terminal rsistance to bendng (front & side)10N	

1)Equivalent to the max,initial contact resistance is 500m Ω (1A 24VDC)。

COIL DATA

at 23℃

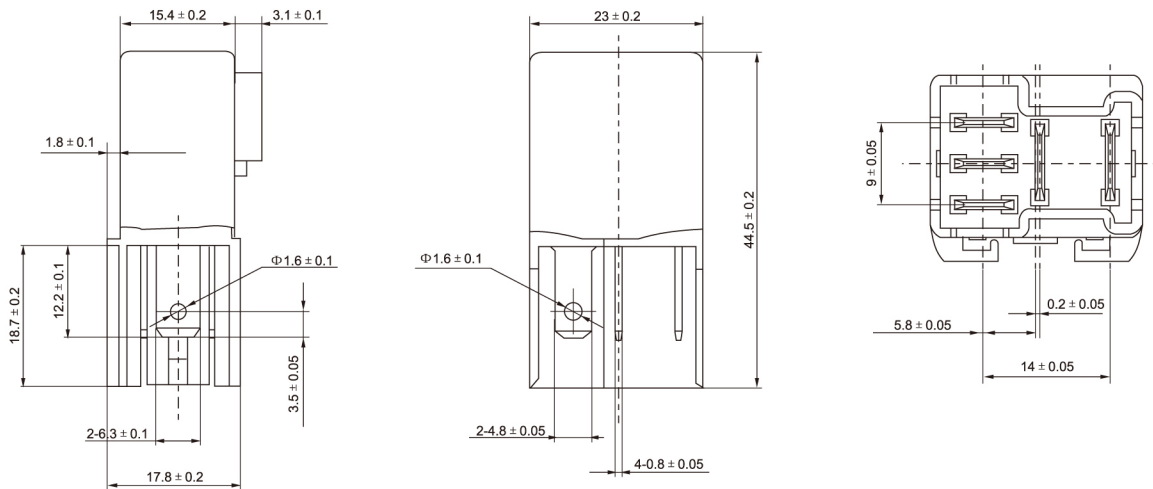
	Normal voltage (VDC)	Pick-up voltage (VDC)	Drop-out voltage (VDC)	Coil resistance (Ω ±10%)	Parallel resistance (Ω ±5%)	Equivalent resistance (Ω ±10%)	Power consumption (W)	Max.allowable overdrive voltage(VDC)	
								20℃	85℃
Standard	12	7.8	1.2	90	-	-	1.6	20	15
	12	7.8	1.2	90	680	79.5	1.8	20	15
	24	15.6	2.4	360	-	-	1.6	40	30
	24	15.6	2.4	360	2700	317.6	1.8	40	30

1)Max. Allowable overdrive voltage is stated with no load applied and minimum coil resistance.

ORDERING INFORMATION

Type	MAA1	-1	12	-C-	R
Contact group	1:1group				
Coil voltage	5, 6, 9, 12, 18, 24, 48VDC				
Contact form	A-NO C-NO/NC				
Transient suppression resistor	R-with resistor D-with parallel diode Nil-without resistor				

EXTERNAL DIMENSIONS



WIRING DIAGRAM

