



FEATURES

- 30A switching capability
- Ambient temp can reach 125℃
- 1 form A & form C contact arrangement
- Dust protected type and sealed type available
- Outline dimensions:23.0×15.5×25.4mm

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	500MΩ (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	Sealed ,dust protected
Unit weight	Approx:22g
Mechanical data	Cover retention : (pull & push)200N
	Terminal retention : (pull & push)100N
	Terminal rrsistance to bendng (front & side)10N

注意: 1)Equivalent to the max,initial contact resistance is 500mΩ (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
Sensitive (L)	12	7.8	1.2	124	-	-	1.2	25	19
	12	7.8	1.2	124	680	104.9	1.4	20	15
	24	15.6	2.4	441	-	-	1.3	47	35
	24	15.6	2.4	441	1800	354.2	1.6	33	25

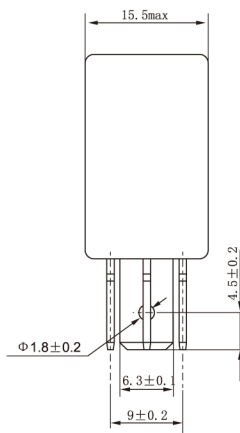
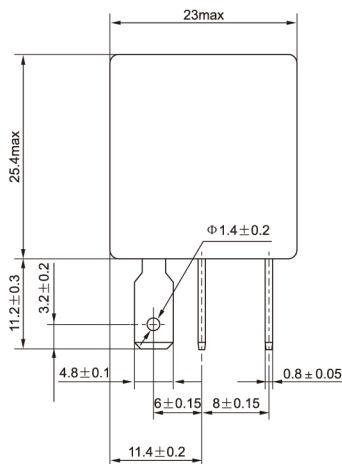
1)Max. Allowable overdrive voltage is stated with no load applied and minimum coil resistance.

ORDERING INFORMATION

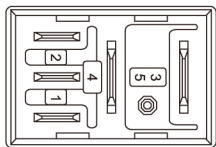
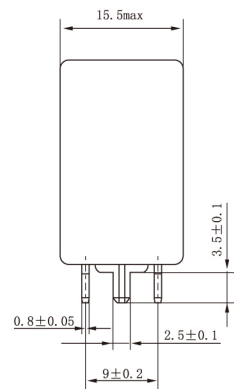
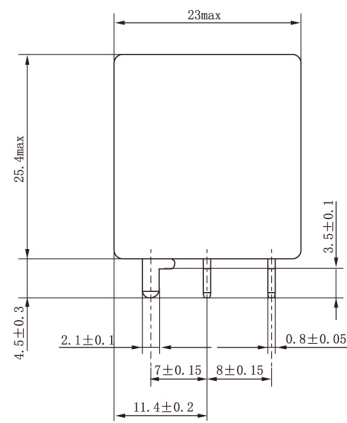
Type	MAA	-S-	1	12	-C	-1	R
Contruction	S-sealed nil-dust protected						
Contact group	1 : 1group						
Coil voltage	6, 9, 12, 18, 24, 36, 48						
Contact form	A-NO C-NO/NC						
Termination	1-QC 2-PCB						
Transient suppression resistor	R-with resistor D-with parallel diode Nil-without resistor						

EXTERNAL DIMENSIONS

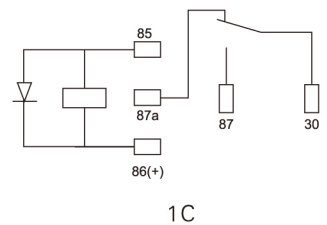
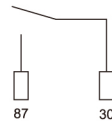
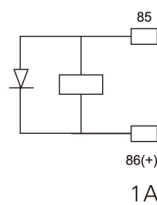
MAA(Standard,QC)



MAA(PCB)



(Bottom view)



Wiring Diagram