

**Features**

- 30A switching capability
- Ambient temp.: -40°C to 125°C
- 1 form A and 1 form C contacts
- 2.8mm QC terminals
- RoHS & ELV Compliant

**Typical Applications**

Fuel pump control, Horn control, Headlight control, A/C compressor clutch

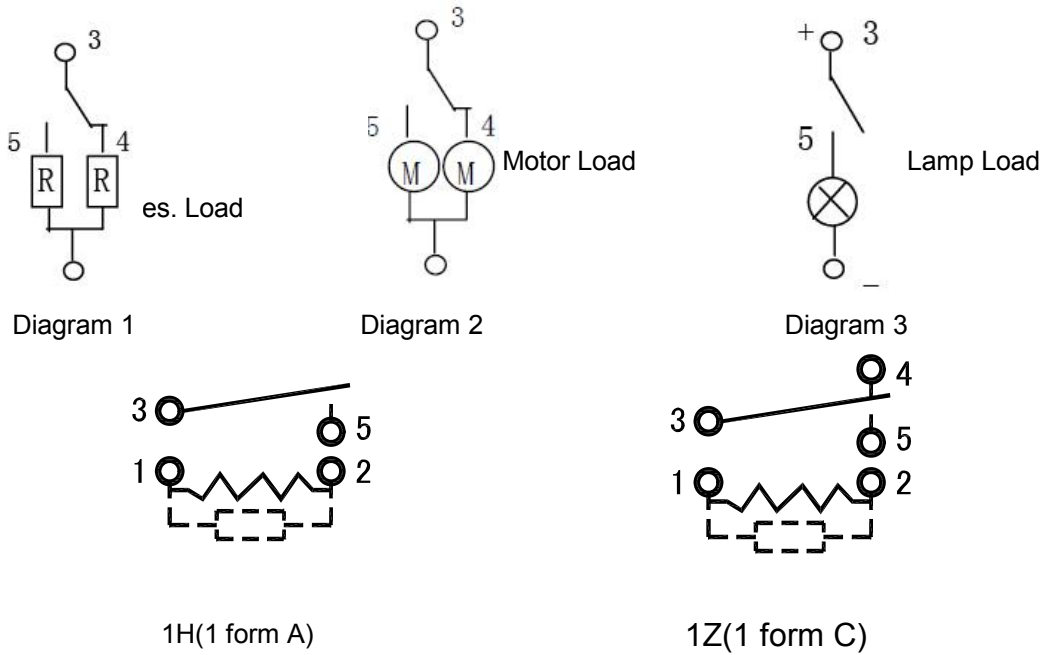
**CHARACTERISTICS**

Contact Arrangement	1A, 1C	Operate Time	Typ.:5ms Max.:10ms
Contact Voltage Drop	Typ.40mV (at 10A 13.5 VDC) Max.100mV (at 10A 13.5 VDC)	Release Time	Typ.:5ms Max.:10ms
Initial Contact Resistance	Max.50mΩ (at 1A 24 VDC)	Vibration Resistance	10Hz~500Hz 49m/s <sup>2</sup> (5g)
Electrical Life	1×10 <sup>5</sup> ops	Shock Resistance	196m/s <sup>2</sup> (20g)
Mechanical Life	1×10 <sup>7</sup> ops	Termination	2.8mm QC
Max. Continuous Current	30A(Resistive)	Weight	Approx.20g
Max. Switching Current	30A(Resistive)	Construction	Dust-proof/Sealed
Max. Switching Voltage	27VDC(Resistive)	Mechanical Data	Cover retention: 200N Terminal retention: 100N Terminal resistance to bending:10N
Insulation Resistance	100MΩ,500VDC		
Dielectric Strength	550VAC 1min		
Ambient Temp.	-40°C ~ +125°C		

**CONTACT DATA**

Load Voltage VDC	Load Version		Carry Current(A)			On/Off Ratio		Electrical Life (ops)	Contact Material	Contact Wiring Diagram
			1C		1A	ON s	OFF s			
			N.O.	N.C.	N.O.					
13.5 VDC	Resistive on/off		30	20	30	2	2	1×10 <sup>5</sup>	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>	Diagram 1
	Motor	on	40	20	40	2	2	1×10 <sup>5</sup>	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>	Diagram 2
		off	20	10	20					
	Lamp	on	100	--	120	2	2	1×10 <sup>5</sup>	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>	Diagram 3
off		20	--	20						
27 VDC	Resistive on/off		20	10	20	2	2	1×10 <sup>5</sup>	AgSnO <sub>2</sub> In <sub>2</sub> O <sub>3</sub>	Diagram 1

Contact Wiring Diagram



COIL DATA 23°C

	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance 1±10% Ω	Parallel Resistance Ω	Equivalent Resistance Ω	Relay Power	Max. Allowable Overdrive VDC	
								23 °C	85°C
Standard	12	<7.2	>1.2	98	—	—	1.5	20	15
	12	<7.2	>1.2	98	680	85.7	1.7	20	15
	24	<14.4	>2.4	385	—	—	1.5	40	30
	24	<14.4	>2.4	385	2700	337	1.7	40	30

ORDERING INFORMATION

	<b>M11</b>	<b>012-</b>	<b>1H</b>	<b>S</b>	<b>R</b>	<b>XXX</b>
<b>Relay Type</b>						
<b>Coil Voltage</b>	012: 12vdc 024: 24vdc					
<b>Contact Arrangement</b>	1H: 1 Form A 1Z: 1 Form C					
<b>Construction</b>	S: Sealed Nil: Dust-proof					
<b>Parallel Resistor</b>	R: With resistor Nil: Without resistor					

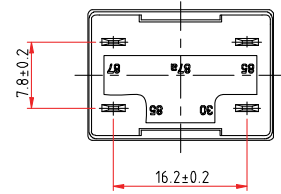
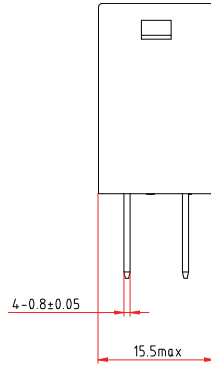
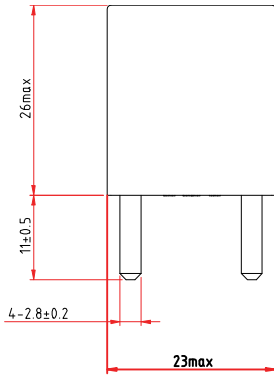
Customer special request code:

Outline Dimensions

Unit :mm

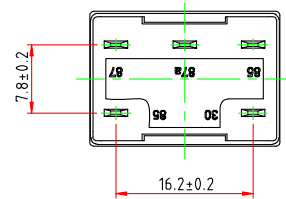
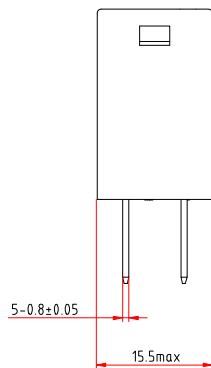
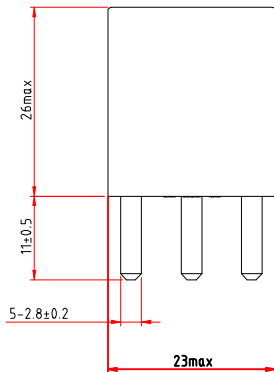
1 Form A

M11/□□□-1H□□(-XXX)



1 Form C

M11/□□□-1Z□□F(-XXX)



Wiring Diagram

