



Features

- 30A switching capability.
- Ambient temp. : -40°C to 125°C.
- 1 form A and 1 form C contacts
- Extended operation range.
- Plug-in or PC board terminals.

Typical Applications

Heaters (seat, front/rear windows), Fan motors control, Fuel pump control, Wiper motors control, Magnetic valves control, Fog lamp & headlight control, Air-conditioning, Oil injection, Lifting magnets, Interlocks.

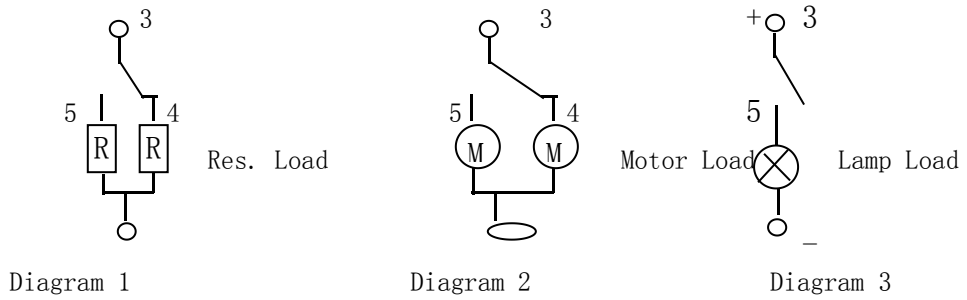
CHARACTERISTICS

Contact Arrangement	1C, 1A	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)	Ambient temp.	-40°C ~ +125°C
Electrical life	1.5×10^5 ops	Vibration Resistance	10Hz ~ 500Hz 49m/s ² (5g)
Mechanical life	1×10^7 ops	Shock resistance	196m/s ² (20g)
Max. Carry current	40A (NO) / 20A (NC)	Termination	Plug-in & PCB
Max. switching voltage	27VDC	Weight	Approx. 22g
Insulation resistance	100MΩ, 500VDC	Construction	Dust covered
Dielectric Strength	550VAC 1min		
Coil power	1.4W to 1.8W		
Coil Voltage	12VDC, 24VDC		

CONTACT DATA

Nominal Voltage VDC	Load Version		Carry current (A)			Electrical life (ops)	Contact Material	Testing Ambient temp.	Contact Wiring Diagram
			1C		1A				
			N. O.	N. C.	N. O.				
12 VDC	Res. 13VDC on/off		30	20	30	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 1
	13VDC Motor	on	40	20	40	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 2
		off	20	10	20				
	13VDC Lamp	on	120	40	120	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 3
off		20	10	20					
24 VDC	Res. 27VDC on/off		25	15	30	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 1
	27VDC Motor	on	38	28	38	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 2
		off	15	6	15				
	27VDC Lamp	on	70	—	70	1×10^5	AgSnO ₂ In ₂ O ₃	23°C	Diagram 3
off		7	—	7					

Contact Wiring Diagram



COIL DATA 23°C

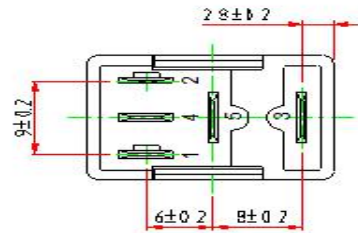
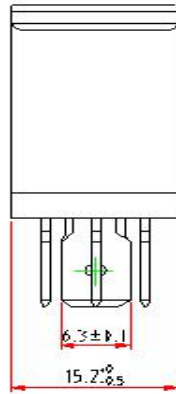
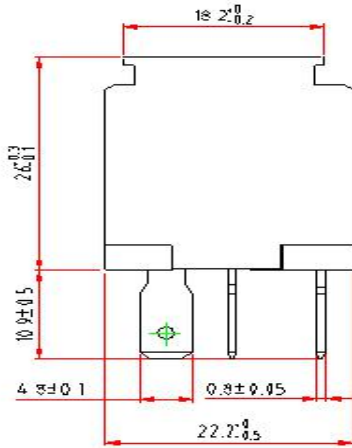
Coil Power	Nominal Voltage VDC	Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Parallel Resistance Ω
Standard	12	<7.2	>1.2	98	---
	12	<7.2	>1.2	98	680
	24	<14.4	>2.4	385	---
	24	<14.4	>2.4	385	2700
Sensitive	12	<7.2	>1.2	124	---
	12	<7.2	>1.2	124	680
	24	<14.4	>2.4	441	---
	24	<14.4	>2.4	441	2700

ORDERING INFORMATION

	MC2/	012-	1H	L	R	F	XXX
Relay Type							
Coil voltage	012: 12vdc 024: 24vdc						
Contact arrangement	1H: 1 Form A 1Z: 1 Form C						
Coil power	L: Sensitive Nil: Standard						
Parallel resistor	R: With resistor Nil: Without resistor						
	D: Parallel diode (D1: anode on #86, D2: anode on #85)						
Construction	Nil: flute F: flat						
Customer special request code:							

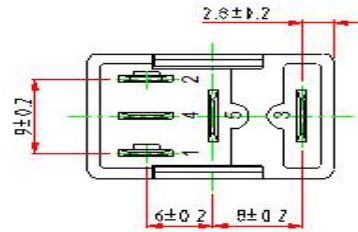
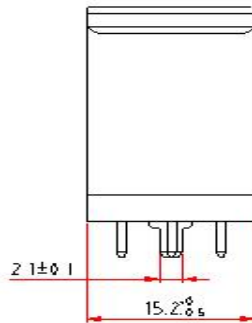
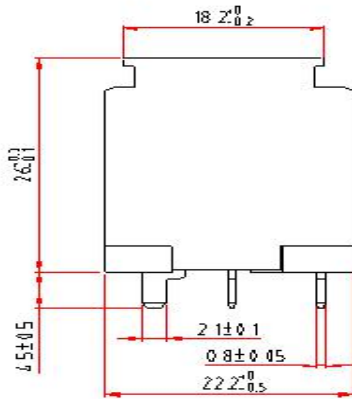
Outline Dimensions

Plug-in Type



- Pin 1 (86) coil
- Pin 2 (85) coil
- Pin 3 (30) common
- Pin 4 (87A) N.C. contact
- Pin 5 (87) N.O. contact

PCB Type



- Pin 1 (86) coil
- Pin 2 (85) coil
- Pin 3 (30) common
- Pin 4 (87A) N.C. contact
- Pin 5 (87) N.O. contact

Wiring Diagram

