



Automotive Relays



Features

- 60A switching capability
- Variety installations available
- Waterproof version
- Negative spike suppression (Internal metal film resistor)

Mounting Bracket Series

5083 With Mounting Bracket

5084 Waterproof version IP55

Standard Series

5083W Without Mounting Bracket

5084W Waterproof version IP55

Board Series

5083BP Board Mount Housed

5083B Board Mount (No Housing)

Characteristics

Insulation system	Class B / Class F
Insulation resistance	100M Ω (500VDC)
Dielectric Strength	Between contacts and coil 550VAC 1minute
	Between open contacts 550VAC 1minute
Operate time (Under nominal voltage)	≤ 10 ms
Release time (Under nominal voltage)	≤ 10 ms
Humidity	85% RH (20°C)
Ambient Temperature	-40°C~+125°C
Shock resistance	Functional 98m/s ²
	Destructive 980m/s ²
Vibration resistance (Double amplitude)	10Hz~55Hz 1.5mm
Weight	Approx 36g
Construction	Dustproof

Contact Rating

Contact arrangement	1A(spsno)/1B(Spsnc)/1C(Spdt)
Voltage drop	≤ 200 mV
Contact material	Silver alloy: AgCdO, AgSnO ₂ , AgNi
Contact rating	40A 60A 12VDC
Max switching voltage	50VDC
Max switching current	60A (Resistive 12VDC)
Min contact load	1A 6VDC
Electrical endurance (frequency: 900 ops/h)	1x10 ⁷ ops
Mechanical endurance (frequency: 1800 ops/h)	1x10 ⁷ ops

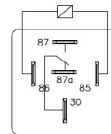
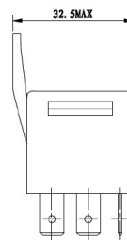
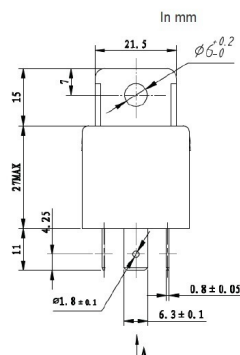
Coil Data

(at 20°C)

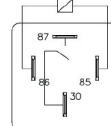
Power dissipation W	Voltage VDC	Current $\Omega \pm 10\%$	Resistance Ω	Pick-up voltage	Drop-out voltage	Max allowable
1.6	12	90				
1.8	12	90	680			
1.6	24	360				
1.8	24	360	2700	70%Max	10%Min	130%
1.8	24	320				
2	24	320	2700			

This product specification only for your reference. we will not notify you if we do any improvement. We reserve all the right for the final explanation

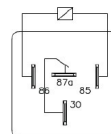
Mounting Bracket Series



Conversion C type



Normally open A type



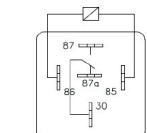
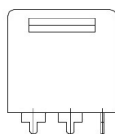
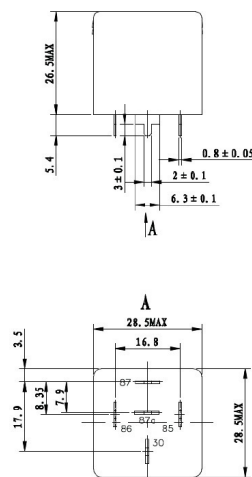
Normally closed B type

Tolerance: ± 0.3

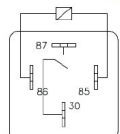
Terminal deviation tolerance is 0.2mm

Board Mount Series

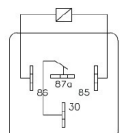
Shown with Plastic Housing



Conversion C type



Normally open A type

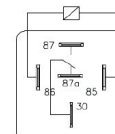
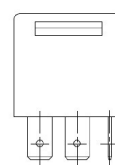
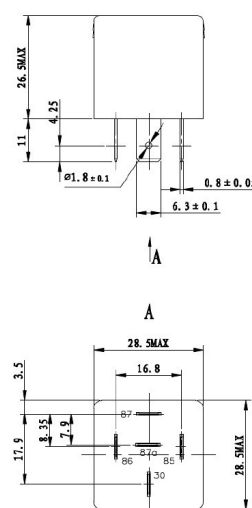


Normally closed B type

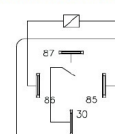
Tolerance: ± 0.3

Terminal deviation tolerance is 0.2mm

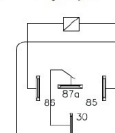
Standard Series



Conversion C type



Normally open A type



Normally closed B type