

Coil Data

Nominal Voltage : 12V DC
Coil Power : 1,600mW

Contact Data

Contact Form : C-1 form C
Contact Material : Ag Alloy
Contact Rating : 30A 14V DC Resistive (1 Form C)
Max. Switching Voltage : 75V DC
Max. Switching Current : 40A
Max. Switching Power : 420W (1 Form C)
Max. Load Current : 14V DC load voltage

Load	C	
	NO	NC
Contact Rating Current	40A	30A
Max. Make Current	100A	
Max. Break Current	40A	

Contact Resistance : ≤ 100mΩ (6V DC 1A)

Life

Electrical : 100,000 operations
Mechanical : 10,000,000 operations

General Data

Min. Insulation Resistance : 100MΩ 500V DC
Dielectric Strength : 500V AC, 1 min between open contacts
500V AC, 1 min between coil and contacts
Max. Operate Time : 10 ms
Max. Release Time : 10 ms
Operate Temperature : -40°C to +85°C

Shock Resistance

Endurance : 1,000m/s²
Misoperation : 100m/s²

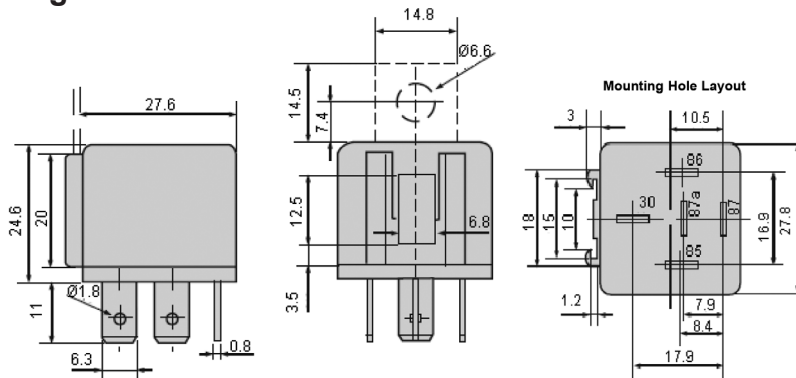
Vibration Resistance

Endurance : 10-55 Hz, double amplitude 1.5 mm
Misoperation : 10-55 Hz, double amplitude 1.5 mm
Weight : Approximately 37 g (With Shoulder)
Approximately 32 g (No Shoulder)

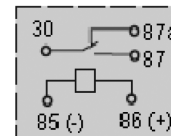
Coil Data Chart 20°C

Nominal Voltage V DC	Coil Resistance Ω ±10%	Operate Voltage ≤ V DC	Release Voltage ≥ V DC	Coil Power mW
12	90	8.4	1.2	1,600

Diagram



Wiring Diagrams

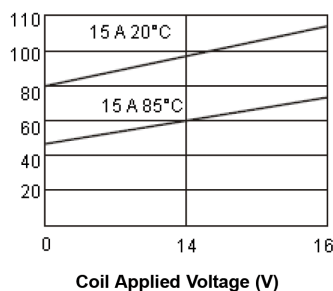


Dimensions : Millimetres

Characteristic Data

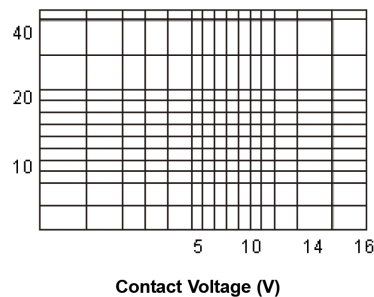
Temperature Rise

Temperature Rise (°C)



Maximum Switching Power

Contact Current (A)



Contact Voltage (V)

Part Number Table

Description	Part Number
Relay, Auto, SPDT, 12V DC, 1.6W	MCCMA31-DC12V-C-NS
Relay, Auto, SPDT, 12V DC, 1.6W, Shoulder	MCCMA31-DC12V-C

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