Automotive Relays





Coil Data

Nominal Voltage : 12 V dc

Coil Resistance : Refer to coil data chart
Operate Voltage : Refer to coil data chart
Release Voltage : Refer to coil data chart
Coil Power : 360 mW, 800 mW

Contact Data

Contact Form : A-1 form A, C-1 form C

Contact Material : Ag Alloy

Contact Rating : 15 A 14 V dc Resistive (C-1 form C)

: 20 A 14 V dc Resistive (A-1 form A)

Maximum Switching Voltage : 75 V dc
Maximum Switching Current : 20 A
Maximum Switching Power : 280 W

Contact Resistance : \leq 100 m Ω (6 V dc 1 A)

Life

Electrical : 100,000 operations at nominal load

Mechanical : 10,000,000 operations

General Data

Minimum Insulation Resistance : 100 M Ω 500 V dc

Dielectric Strength : 750 V ac, 1 min between open contacts

: 1,000 V ac, 1 min between coil and contacts

Maximum Operate Time : 15 ms

Maximum Release Time : 10 ms

Operate Temperature : -40 to +85°C

Shock Resistance

Endurance : $1,000 \text{ m/s}^2$ Misoperation : 100 m/s^2



Automotive Relays



General Data

Vibration Resistance

Endurance : 10-55 Hz, double amplitude 1.5 mm Misoperation : 10-55 Hz, double amplitude 1.5 mm

Weight : Approximately 10 g

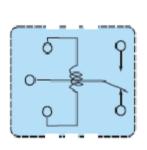
Coil Data Chart 20°C

Nominal Voltage V dc	Coil Resistance Ω ±10%	Operate Voltage ≤ V dc	Release Voltage ≥ V dc	Coil Power mW
12	180	7.2	1.2	800

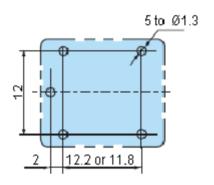
Dimensions

19 15.5 0.3 0.45 2 12.2 or 11.8 0.9

Wiring Diagrams



Mounting Hole Layout

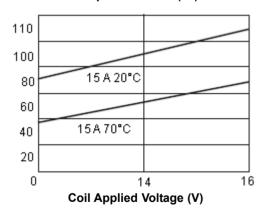


Dimensions: Millimetres

Characteristic Chart Data

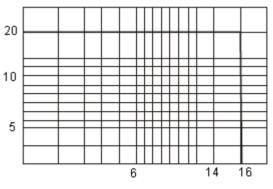
Temperature Rise

Temperature Rise (°C)



Maximum Switching Power

Contact Current (A)



Contact Voltage (V)

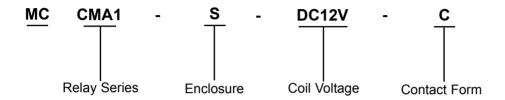
Automotive Relays



Part Number Table

Description	Part Number	
Relay, Auto, SPDT-CO 12 V dc, 0.8 W	MCCMA1-S-DC12V-C	
Relay, Auto, SPDT-NO 12 V dc, 0.8 W	MCCMA1-S-DC12V-A	

Part Number Explanation:



Enclosure : S = Plastic Sealed Type

Contact Form : A = A-1 Form A, C = C-1 Form C

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