



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	: 600 mW, 800 mW

Contact Data

Contact Form	: C-1 form C
Contact Material	: Ag Alloy
Contact Rating	: 20 A 14 V dc Resistive
Maximum Switching Voltage	: 16 V dc
Maximum Carrying Current	: 35 A / 10 minutes. 25 A / 1hr
Maximum Switching Load	: 35 A
Maximum Inrush Current	: 60 A
Minimum Switching Load	: 6 V dc 1 A
Contact Resistance	: $\leq 50 \text{ m}\Omega$ (6 V dc 1 A)

Life

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

General Data

Minimum Insulation Resistance	: 100 M Ω 500 V dc
Dielectric Strength	: 500 V ac, 1 min between open contacts : 500 V ac, 1 min between coil and contacts
Maximum Operate Time	: 10 ms
Maximum Release Time	: 10 ms
Operate Temperature	: -30 to +85°C

Shock Resistance

Minimum Endurance	: 100 m/s ²
Minimum Misoperation	: 1,000 m/s ²

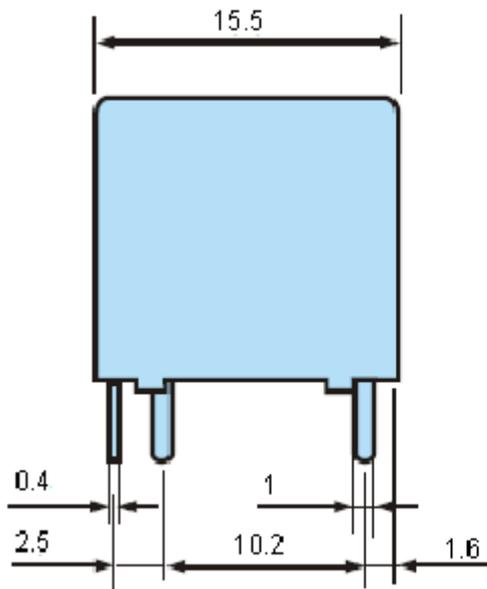
Automotive Relays

General Data

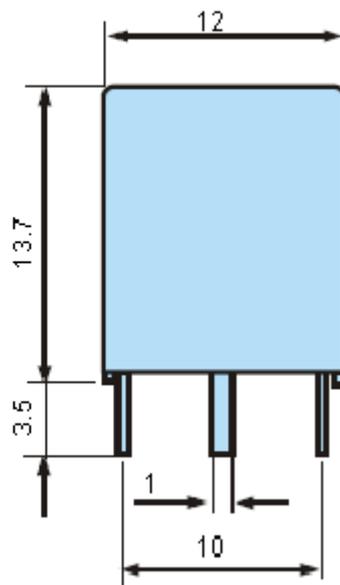
Vibration Resistance

Endurance : 10 -55 Hz, double amplitude 1.5 mm
 Misoperation : 10 -55 Hz, double amplitude 1.5 mm
 Weight : Approximately 6 g

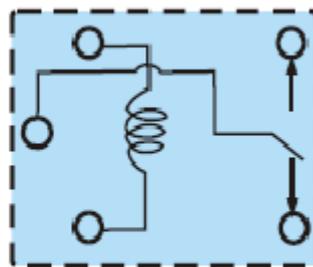
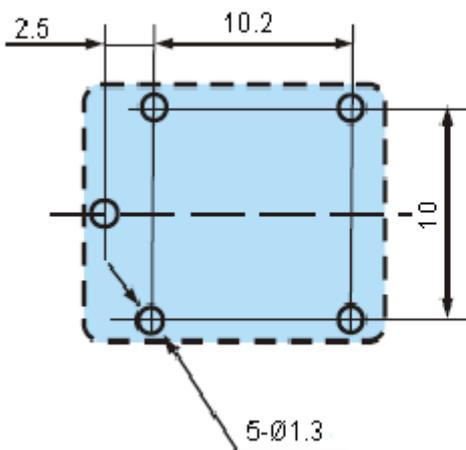
Dimensions



Wiring Diagrams



Mounting Hole Layout

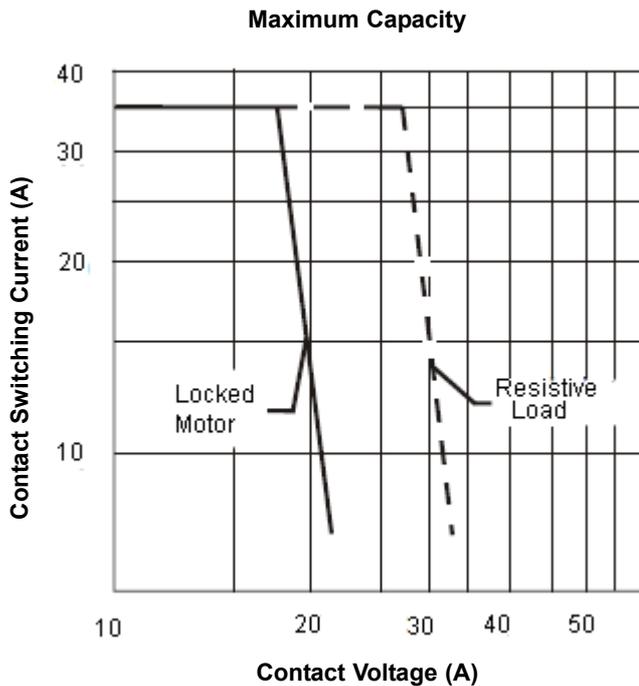


Dimensions : Millimetres

Coil Data Chart 20°C

Nominal Voltage V dc	Coil Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ dc	Release Voltage $\geq V$ dc	Coil Power mW
12	180	7.2	1.2	800

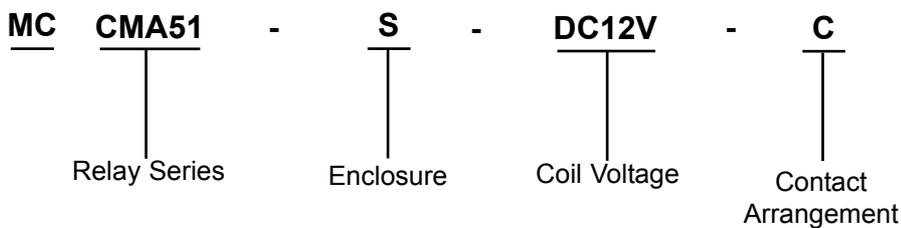
Characteristic Data



Part Number Table

Description	Part Number
Relay, Auto, SPDT, 12 V dc, 0.8 W	MCCMA51-S-DC12V-C

Part Number Explanation:



- Relay Series** : CMA51 = Contact Gap: 0.3 mm
- Enclosure** : S = Washable
- Contact Arrangement** : C = C-1 Form C

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