



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 : 1.5 W (12 V)

Contact Data

Contact Form : C-1 form C
Contact Material : Ag Alloy
Contact Rating

Type		12 V dc Coil Voltage
Rating (Resistive Load)	Contact Rating	N O : 35 A 14 V dc N C : 20 A 14 V dc
	85°C Switching Current	N O : 20 A (14 V dc) N C : 10 A (14 V dc)

Maximum Switching Power : 490 W (12 V coil voltage)
Maximum Contact Resistance : 50 mΩ (6 V dc 1 A)

Life

Electrical : 1,00,000 operations
Mechanical : 1,000,000 operations

General Data

Minimum Insulation Resistance : 20 MΩ 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 : -40 to +85°C

Shock Resistance

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

Automotive Relays



General Data

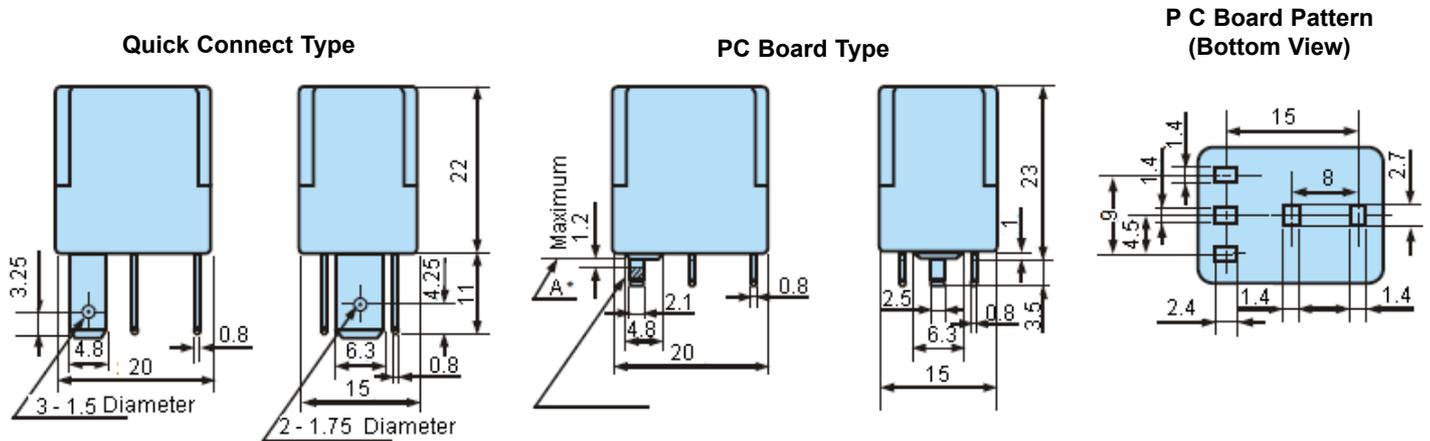
Vibration Resistance

Endurance : 10-55 Hz, double amplitude 1.5 mm
 Misoperation : 10-55 Hz, double amplitude 1.5 mm
 Weight : Approximately 18 g

Coil Data Chart 20°C

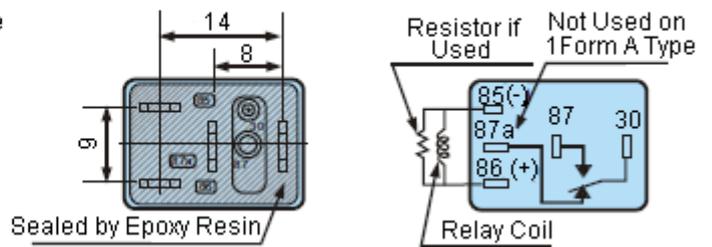
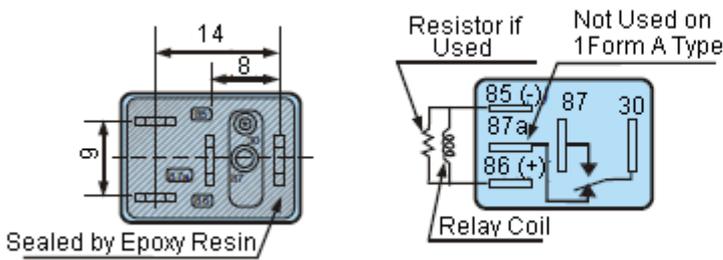
Coil Voltage V dc	Coil Resistance $\Omega \pm 10\%$	Shunt-wound Resistance (Ω)	Operate Voltage $\leq V$ dc	Release Voltage $\geq V$ dc	Coil Power mW
12	96	680	7.2	1.2	1,500

Dimensions



Schematic (Bottom View)

Schematic (Bottom View)



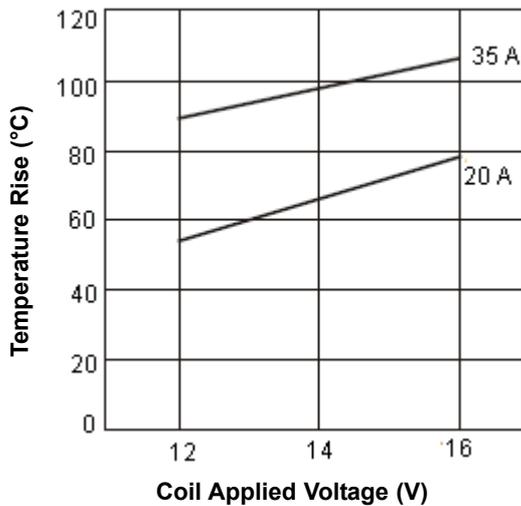
Dimensions : Millimetres

Dimension	General Tolerance
Maximum 1 mm	± 0.1
1 to 3 mm	± 0.2
Minimum 3 mm	± 0.3



Characteristic Data

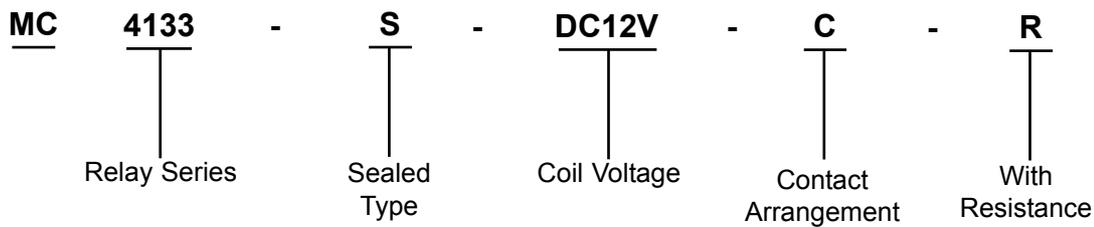
Coil Temperature Rise (12 V Type)



Part Number Table

Description	Part Number
Relay, Auto, SPDT, 12 V dc, 1.5 W	MC4133-S-DC12V-C
Relay, Auto, SPDT, 12 V dc, 1.5 W, 680 Ohm	MC4133-S-DC12V-C-R

Part Number Explanation:



Contact Arrangement : C = C-1 Form C
With Resistance : R = 12 V - 680 Ω

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