



Coil Data

Nominal Voltage : 12V DC
Coil Resistance : Refer to coil data chart
Operate Voltage : Refer to coil data chart
Release Voltage : Refer to coil data chart
Coil Power : 1.5W (12V)

Contact Data

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

Type		12V DC Coil Voltage
Rating (Resistive Load)	Contact Rating	NO : 35A 14V DC NC : 20A 14V DC
	85°C Switching Current	NO : 20A (14V DC) NC : 10A (14V DC)

Max. Switching Power : 490W (12V coil voltage)
Contact Resistance : 50mΩ (6V DC 1A)

Life

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

General Data

Min. Insulation Resistance : 20MΩ 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 : 1,000 m/s²
Mis-operation : 100 m/s²

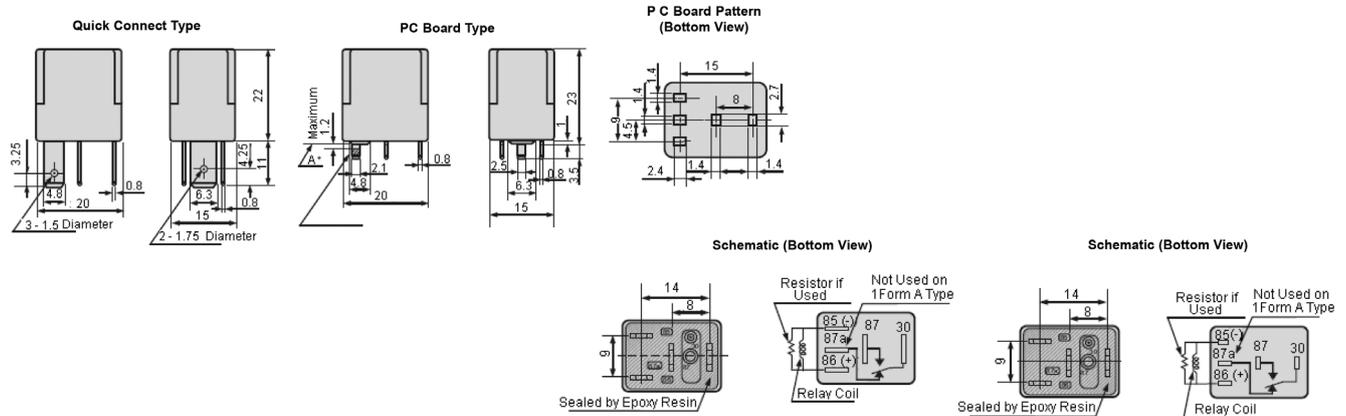
Vibration Resistance

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

Coil Data Chart 20°C

Nominal Voltage V DC	Coil Resistance Ω ±10%	Shunt-wound Resistance (Ω)	Operate Voltage ≤V DC	Release Voltage ≥V DC	Coil Power mW
12	96	680	7.2	1.2	1,500

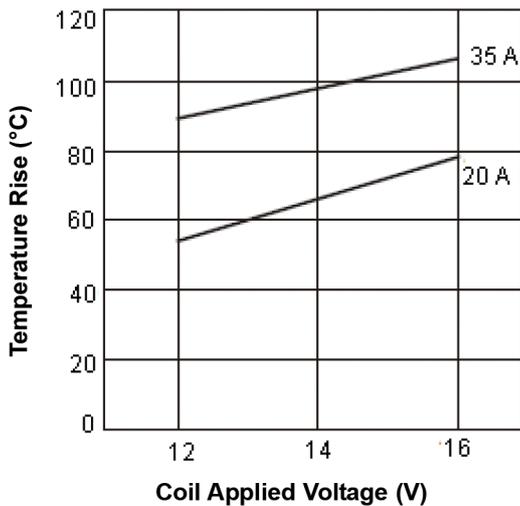
Diagram



Dimensions : Millimetres

Characteristic Chart Data

Coil Temperature Rise (12 V Type)



General Tolerance

- Maximum 1mm ±0.1
- 1mm to 3mm ±0.2
- Minimum 3mm ±0.3

Part Number Table

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

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