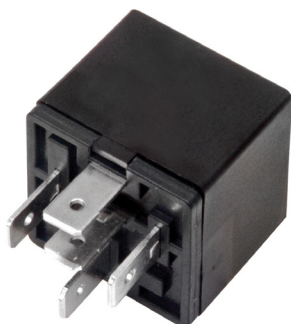


**RoHS
Compliant**



Coil Data

Nominal Voltage	: 12V DC
Coil Resistance	: 90Ω ±10% at 23°C
Nominal Current	: 133.3mA ±10% at 23°C
Operating Voltage	: 8.4V DC Max.
Release Voltage	: 1.2V DC Min.
Max. Coil Voltage	: 15.6V DC (130% of Nominal Voltage)
Nominal Operating Power	: 1600mW

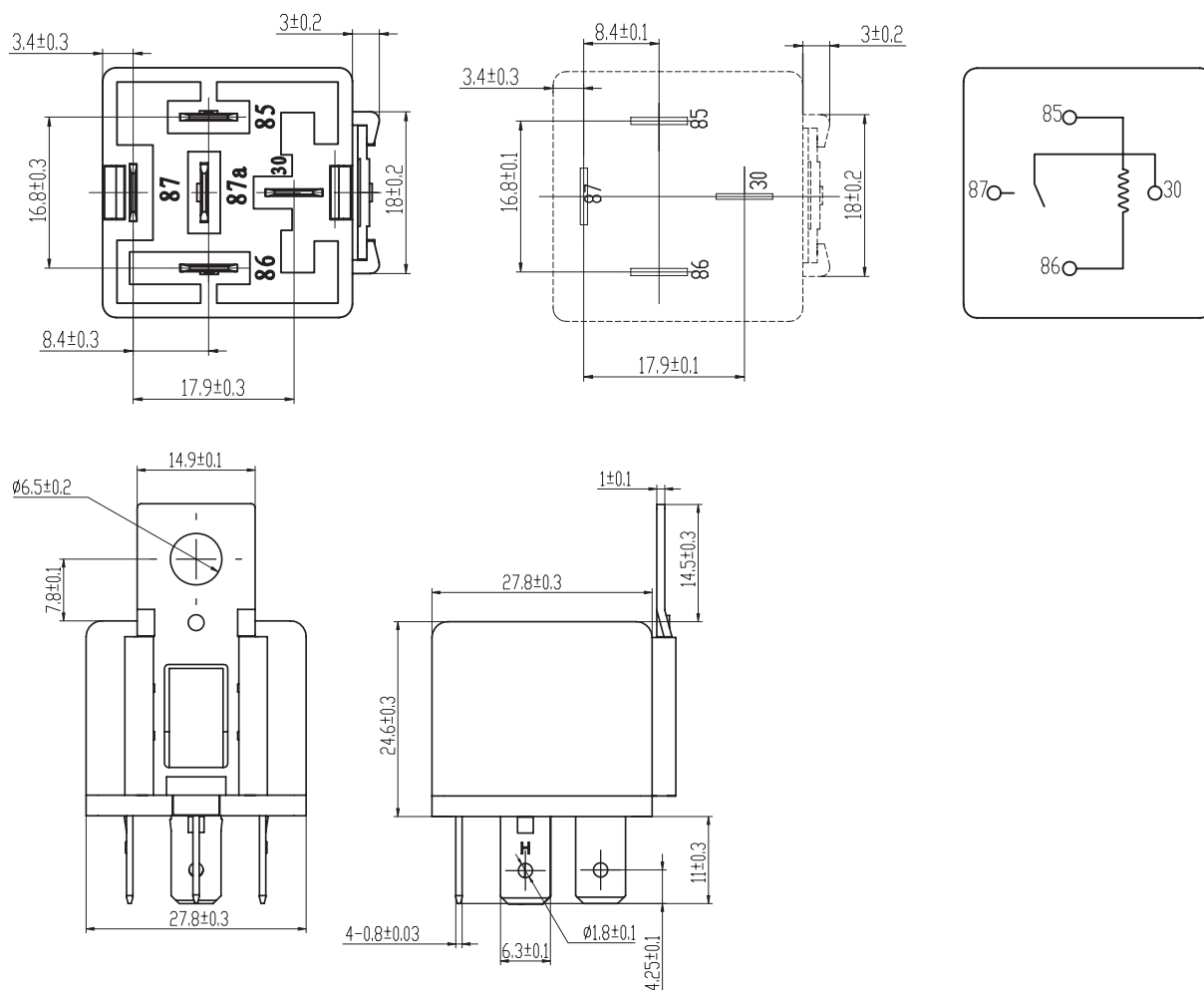
Contact Data

Contact Form	: 1 Form A-SPST
Contact Material	: Ag Alloy
Contact Rating	: Resistive: 40A 14V DC
Max. Switching Voltage	: 75V DC
Max. Continuous Current	: 60A (23°C 10min)
Max. Inrush Current	: 100A
Contact Resistance (Initial)	: Max. 100mΩ at 6V DC 1A
Electrical Durability	: 100,000 cycles at room temperature (720 cycles/h) After test, the dielectric strength shall be not less than 75% of initial value
Mechanical Durability	: 10,000,000 operations at no load (18,000 ops / hour)

General Data

Insulation Resistance	: Min .100MΩ at 500V DC
Dielectric Strength	: Leakage current: 1mA
(1) Between Contacts	: 500V AC, 1min, 50 / 60Hz
(2) Between Coil and Contact	: 500V AC, 1min, 50 / 60Hz
Operate Time	: Max. 10ms.
Release Time	: Max. 10ms.
Operating Temperature	: -40°C to +85°C
Storage Conditions	
(1) Storage Temperature	: -40°C to +85°C
(2) Environments	: Store in locations where the product is not exposed to corrosive gas such as hydrogen sulfide gas or salty air. Store in locations where the product is not exposed to the direct ray of the sun and rain, snow.
Temperature Rise Coil	: 70k max. by resistance method when 40A current is applied to contact and 100% of rated voltage to coil at 85°C
Terminal Strength Tensile and pushing	: To be free from any abnormality in both the construction and characteristics after pushing and pulling the relay terminal 2mm from the body with 10kg for 10sec.
Cold and Heat Resistance	: Less than 100mΩ
Heat Shock	: Less than 100mΩ and insulation resistance shall be more than 10MΩ.
Damp Heat Cyclic Test	: Less than 100mΩ and insulation resistance shall be more than 10MΩ .

Diagram



Part Number Table

Description	Part Number
Voltage Monitoring Relay, SPST, 12V DC, 40A	CMA31-DC12V-A

Dimensions : Millimetres

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