CMA34

AUTOMOTIVE RELAY

Features

- Microminiature：22.5×15.0×25.0mm
- 125℃ of operating ambient temperature
- 2.8mm of Flat quick connection terminal
- Compliance to Rohs、ELV Directive

Relay Picture

ORDERING INFORMATION

CMA34 - S - DC12V - A - R

Model	Enclosure	Coil Voltage	Contact Form	Parallel Electronic Component
	S - Plastic Sealed Type Blank - Bayonet type	DC12V DC24V	A - 1 Form A C - 1 Form C	Blank-Standard R- With Resistor (12V - 680Ω, 24V - 2700Ω) D - With Diode

SPECIFICATION

CONTACT DATA

Contact Form		1 Form A, 1 Form C
Contact Material		Ag Alloy
Contact Rating (Resistive)		NO/NC:35A/20A 14VDC NO/NC:20A/10A 28VDC
Contact Resistance		Max.50mΩ(6VDC 1A)
Load	Max. Switching Voltage	40VDC
	Max. Switching Current	Make:150A(1) Break:35A
	Max.Continous Current	35A(125℃,1h)
	Min. Switching Load	1A 6VDC
Life	Electrical	100,000operations
	Mechanical	10,000,000operations

COIL DATA

Nominal Coil Power	12V: 1.2W,24V: 1.4W
Nominal Coil Power (With Resistor)	12V: 1.4W,24V: 1.6W
Max.Permitted Coil Voltage	1.2W: 20.4VDC(23℃),14.9VDC(85℃)
	1.4W: 36VDC(23℃), 28VDC(85℃)

GENERAL DATA

Insulation Resistance		Min.100MΩ 500VDC
Dielectric Strength	Between open contacts	550VAC,50/60Hz,1 min
	Between coil and contacts	550VAC,50/60Hz,1 min
Operate Time		Max.10ms
Release Time		Max.10ms
		Max.20ms(With Diode)
Operating Temperature		-40℃ to +125℃
Humidity		35～85%RH
Shock Resistance(2)		20G(≤1ms)
Vibration Resistance(2)		10～40Hz,1.27mm double amplitude 40～70Hz,49m/s^2 70～100Hz,0.5mm double amplitude 100～500Hz,98m/s^2
Weight		Approximately20.0g

Note:Data shown are of initial value

Remark:(1) Surge current for lamp
(2)The open time for Closed contact and the closed time for open contact is not more than 1ms

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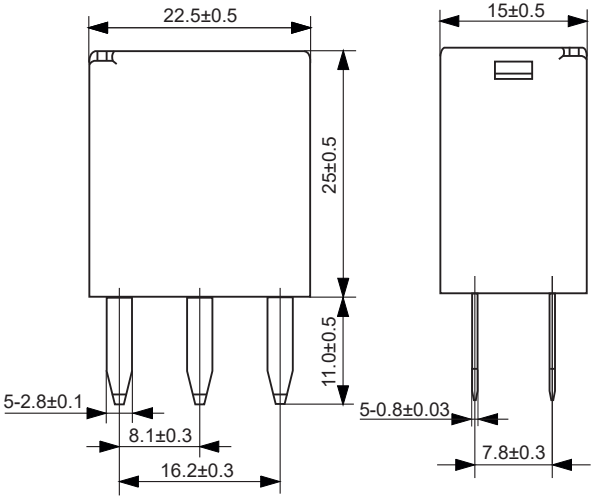
COIL DATA

Ambient Temperature: 23℃

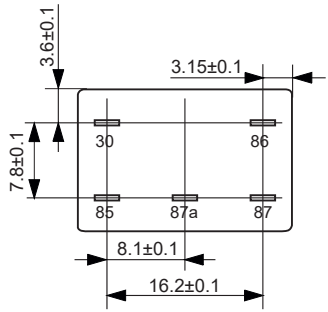
Model	Nominal Voltage VDC	Coil Resistance Ω+/-10%	Parallel Resistance Ω+/-5%	Equivalent Resistance Ω+/-10%	Operate Voltage ≤VDC	Release Voltage ≥VDC	Coil Power W
CMA34-(S)-DC12V	12	124	–	–	7.2	1.2	1.2
CMA34-(S)-DC12V (R)	12	124	680	104.9	7.2	1.2	1.4
CMA34-(S)-DC24V	24	420	–	–	14.4	2.4	1.4
CMA34-(S)-DC24V (R)	24	420	2700	363.4	14.4	2.4	1.6

OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

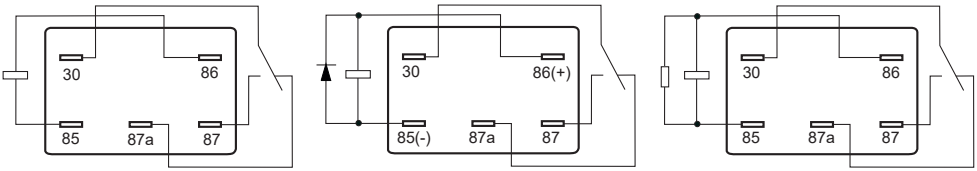
Outline



Mounting Hole Layout
(Bottom View)



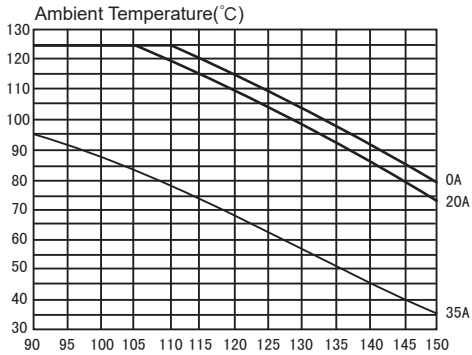
Wiring Diagram
(Bottom View)



REFERENCE DATA

The range of coil continuous voltage

The range of coil continuous voltage for 12VDC



Note：
(1)It is available for no load when Max. continuous coil voltage is energized to relay.
(2)The Max.permitted temperature of coil is 180℃.