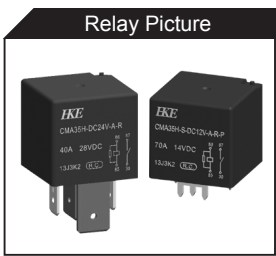
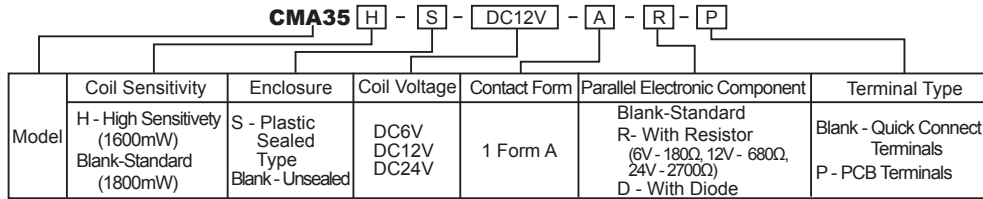




- ### Features
- Heavy duty general purpose automotive relay
  - Outline dimensions:26.0×26.0×24.8 (mm)
  - 70A of contact switching capacity
  - 125°C of working temperature
  - Normal open contact configuration
  - Available for Plastic sealed and unsealed type
  - Quick Connect Terminals and PCB Terminals



## ORDERING INFORMATION



## SPECIFICATION

### CONTACT DATA

Contact Form		1 Form A
Contact Material		Ag Alloy
Contact Rating (Resistive)		6V,12VDC: 70A 14VDC 24VDC: 40A 28VDC
Contact Resistance		Max.50mΩ(24VDC 1A)
Load	Max. Switching Voltage	50VDC
	Max. Switching Current	70A
	Max.Continuous Current	70A(23°C) ,50A(125°C)
	Min.Contact Load	1A 6VDC
Life	Electrical	1×10 <sup>5</sup> Cycles(70A 14VDC,720 cycles/h) 1×10 <sup>5</sup> Cycles(40A 28VDC,720 cycles/h)
	Mechanical	1×10 <sup>7</sup> Cycles(300 cycles/minutes)

### COIL DATA

Nominal Coil Power	1.6W,1.8W
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### GENERAL DATA

Insulation Resistance		Min.500MΩ 500VDC
Dielectric Strength	Between open contacts	550VAC, 1min
	Between coil and contacts	550VAC, 1min
Operate Time		Max. 10ms
Release Time		Max. 7ms
		Max.20ms(With Diode)
Operating Temperature		-40°C to +125°C
Humidity		35~85%RH, +40°C
Shock Resistance		294m/s <sup>2</sup> (30g)
Vibration Resistance		10~55Hz,3.0mm double amplitude 10~500Hz,176m/s <sup>2</sup> (18g)
Weight		Approximately 38.0g
Mechanic	Cover Strength: 245N (Pull/Press) Terminal Strength: 100N (Pull/Press) Terminal Bending: 10N (Each Direction)	

Note:Data shown are of initial value

### COIL DATA

Ambient Temperature: 23°C

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
CMA35-DC6V-A	6	20	-	-	3.6	0.6	1.8
CMA35-DC12V-A	12	80	-	-	7.2	1.2	
CMA35-DC24V-A	24	320	-	-	14.4	2.4	

COIL DATA

Ambient Temperature: 23°C

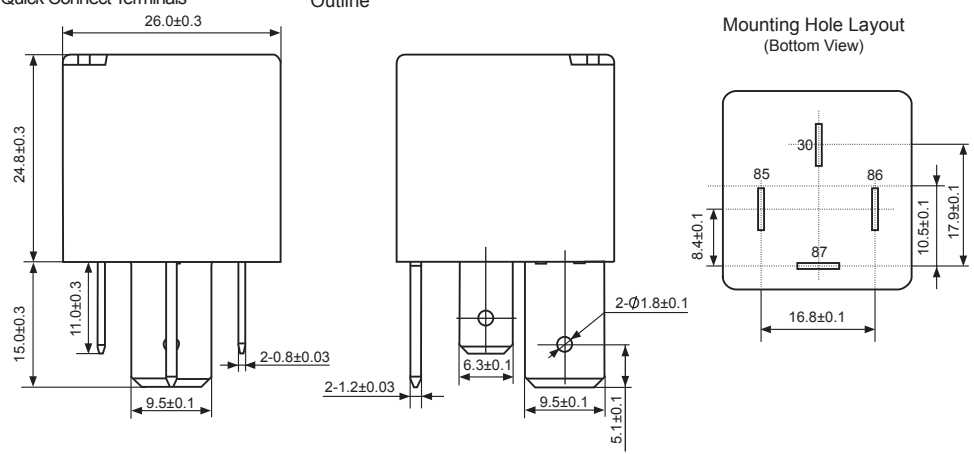
Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Parallel Resistance $\Omega \pm 5\%$	Equivalent Resistance $\Omega \pm 10\%$	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power W
CMA35H-DC6V-A	6	22.5	-	-	3.6	0.6	1.6
CMA35H-DC12V-A	12	90.0	-	-	7.2	1.2	
CMA35H-DC24V-A	24	360	-	-	14.4	2.4	
CMA35H-DC6V-A-R	6	22.5	180	20.0	3.6	0.6	1.8
CMA35H-DC12V-A-R	12	90.0	680	79.5	7.2	1.2	
CMA35H-DC24V-A-R	24	360	2700	317.6	14.4	2.4	

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

Quick Connect Terminals

Outline

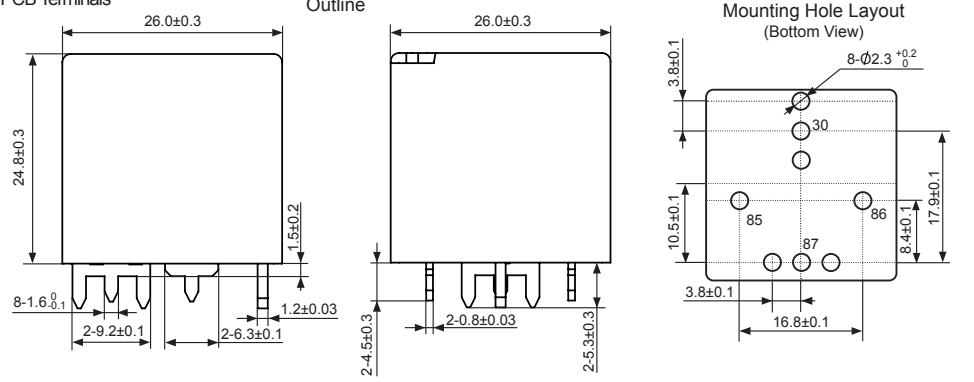
Mounting Hole Layout (Bottom View)



PCB Terminals

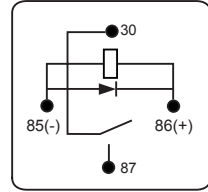
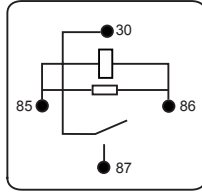
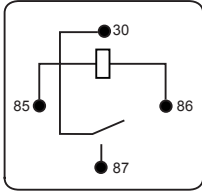
Outline

Mounting Hole Layout (Bottom View)



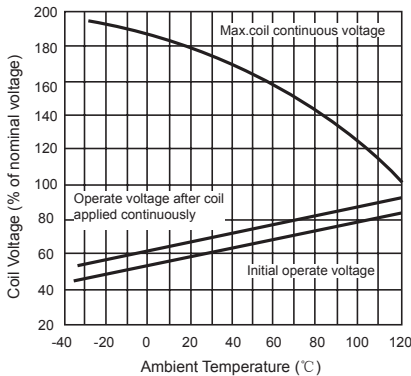
## OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

Wiring Diagram  
(Bottom View)



## REFERENCE DATA

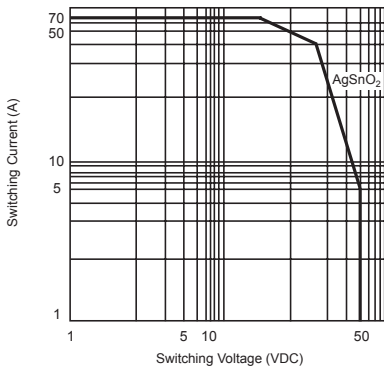
The range of coil continuous voltage



Remark:

1. It is available for no load condition.
2. The operate voltage will be affected by coil pre-applied time and pre-applied voltage. It will be increased after pre-applied.
3. The Max.permitted temperature of coil is 180°C. To take into consideration of the coil temp rise is average value tested by resistance method, it is recommended that the coil temperature is less than 170°C when you test under different environment, coil voltages and ratings.

Max.permitted load



Remark:

1. Resistive contact ratings.
2. Life expectancy test is based on specified contact ratings and conditions. In case applications deviate from the specified rated ratings and conditions, please perform the life test again under the new specifications and conditions.