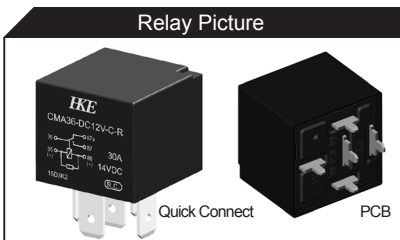




- ### Features
- Dimensions:26.0×26.0×22.7(mm)
  - 50A of switching capability
  - 125℃ of operating ambient temperature
  - SPST and SPDT contact form
  - Compliance to Rohs ELV Directive
  - Available for Plastic sealed and unsealed type



## ORDERING INFORMATION

**CMA36 - S - DC12V - A T - R - P**

Model	Enclosure	Coil Voltage	Contact Form	Contact Rating	Parallel Electronic Component	Terminal Type
	S - Plastic Sealed Type Blank - Unsealed	DC12V DC24V	A - 1 Form A C - 1 Form C	Blank - NO:40A/14VDC NC:30A/14VDC NO:20A/28VDC NC:10A/28VDC T- NO:50A/14VDC NC:30A/14VDC NO:30A/28VDC NC:10A/28VDC	Blank-Standard R- With Resistance (12V - 680Ω, 24V - 2700Ω) D - With Diode	Blank - Quick Connect Terminals P - PCB Terminals

## SPECIFICATION

### CONTACT DATA

Contact Form	1 Form A, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	Standard: NO:40A/14VDC,NC:30A/14VDC NO:20A/28VDC,NC:10A/28VDC T: NO:50A/14VDC,NC:30A/14VDC NO:30A/28VDC,NC:10A/28VDC	
Contact Resistance	Max.50mΩ(24VDC 1A)	
Load	Max. Switching Voltage	28VDC
	Max. Switching Current	Make: 150A (NO,surge) Break: 50A (steady-state)
	Max.Continuous Current	50A(125℃, 1h)
	Min. Switching Load	1A 6VDC
Life	Electrical	100,000 Cycles
	Mechanical	1,000,000 Cycles(300 cycles/minutes)

### 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	
Operating Temperature	-40℃ to +125℃	
Humidity	5~95%RH,50℃	
Shock Resistance	294m/s <sup>2</sup>	
Vibration Resistance	10Hz~22.3Hz,10mmDouble Amplitude 22.3Hz~500Hz,98m/s <sup>2</sup> (10g)	
Mechanic	Cover Strength: 200N (Pull/Press) Terminal Strength: 100N (Pull/Press) Terminal Bending: 10N (Each Direction)	
Weight	Approximately 35g	

Note:Data shown are of initial value

### COIL DATA

Nominal Coil Power	1.6W (Standard) , 2.0W (T)
Nominal Coil Power (With Resistor)	1.8W (Standard) , 2.2W (T)

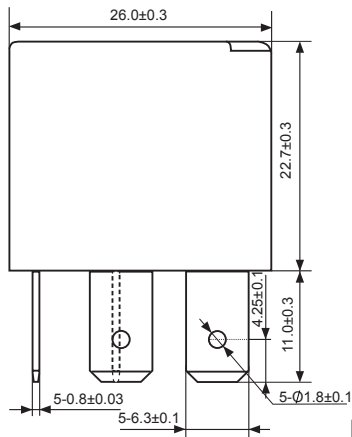
## COIL DATA

Ambient Temperature: 23°C

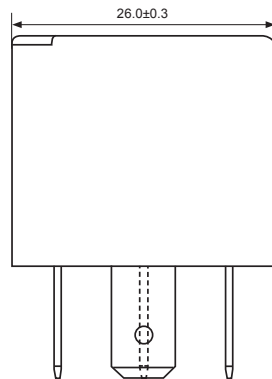
Model	Nominal Voltage VDC	Coil Resistance $\Omega \pm 10\%$	Parallel Resistance $\Omega \pm 5\%$	Equivalent Resistance $\Omega \pm 10\%$	Operate Voltage $\leq$ VDC	Release Voltage $\geq$ VDC	Coil Power W
CMA36-(S)-DC12V-A(C)	12	90	-	-	7.8	1.2	1.6
CMA36-(S)-DC24V-A(C)	24	360	-	-	16.0	2.4	1.6
CMA36-(S)-DC12V-AT(CT)	12	72	-	-	7.8	1.2	2.0
CMA36-(S)-DC24V-AT(CT)	24	288	-	-	16.0	2.4	2.0
CMA36-(S)-DC12V-A(C)-R	12	90	680	79.5	7.8	1.2	1.8
CMA36-(S)-DC24V-A(C)-R	24	360	2700	317.6	16.0	2.4	1.8
CMA36-(S)-DC12V-AT(CT)-R	12	72	680	65.1	7.8	1.2	2.2
CMA36-(S)-DC24V-AT(CT)-R	24	288	2700	260	16.0	2.4	2.2

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

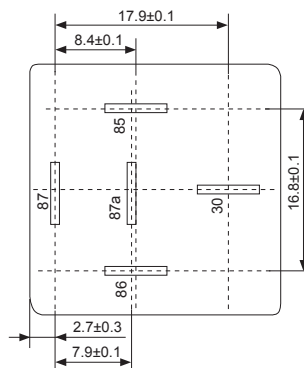
Quick Connect Terminals



Outline



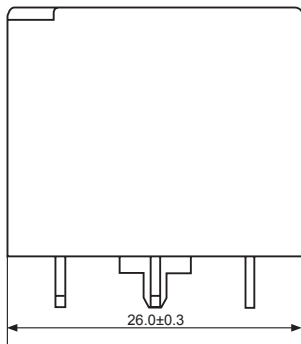
Mounting Hole Layout (Bottom View)



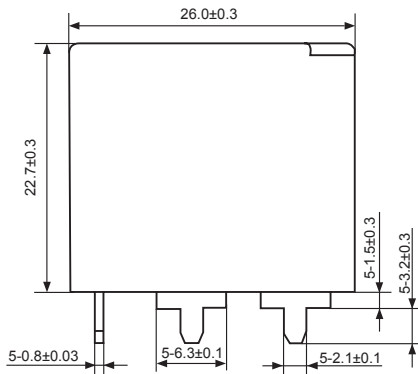
Remark: Form A: Without 87a terminal  
Form C: With all terminals

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

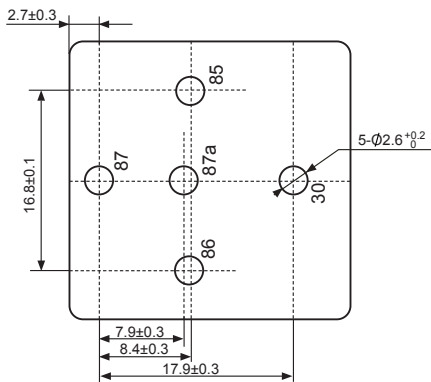
PCB Terminals



Outline

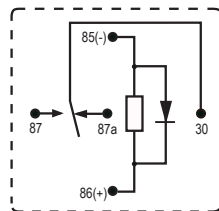
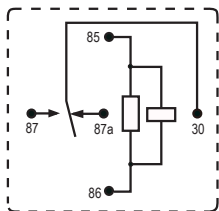
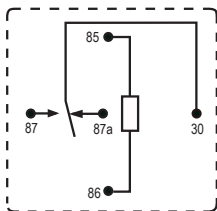


Mounting Hole Layout  
(Bottom View)



Wiring Diagram  
(Bottom View)

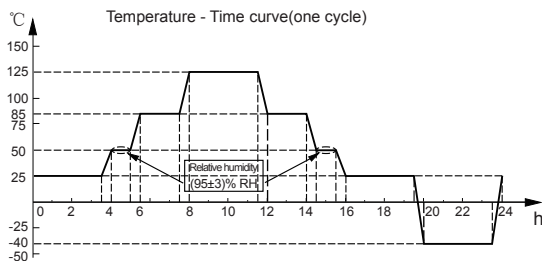
Remark: Form A: Without 87a terminal  
Form C: With all terminals



Remark: Form A: Without 87a terminal  
Form C: With all terminals

REFERENCE DATA

Temperature curve for electrical endurance test



Max. switching power curve

