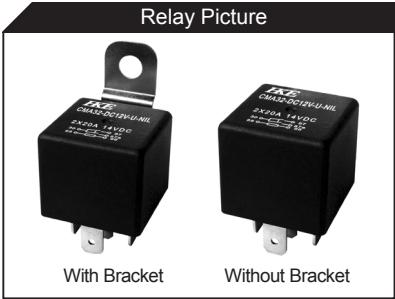
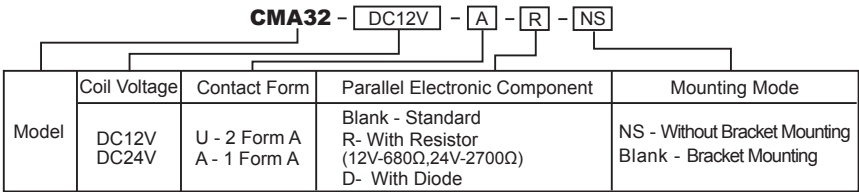




- ### Features
- Heavy duty general purpose automotive relay
Dimensions: 27.8×27.8×24.6(mm)
 - Available in 2 mounting options, with bracket or without bracket
 - Two contact configurations, 1 Form A and 2 Form A



ORDERING INFORMATION



Remark: Available in 2 mounting options, with bracket or without bracket

SPECIFICATION

CONTACT DATA

Contact Form	2 Form A, 1 Form A	
Contact Material	Ag Alloy	
Contact Rating (Resistive)	12VDC: 30A 14VDC(A) 2×20A 14VDC(U) 24VDC: 10A 28VDC(A) 2×10A 28VDC(U)	
Contact Resistance	Max. 100mΩ (6VDC 1A)	
Load	Max. Switching Voltage	75VDC
	Max. Switching Current	30A
	Max. Make Current	A: 60A U: 2×60A
	Max. Switching Power	420W
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations

COIL DATA

Nominal Coil Power	1.6W
Nominal Coil Power(With Resistor)	1.8W

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
CMA32-DC12V	12	90	-	-	8.4	1.2	1.6
CMA32-DC24V	24	360	-	-	16.8	2.4	
CMA32-DC12V(R)	12	90	680	79.5	8.4	1.2	1.8
CMA32-DC24V(R)	24	360	2700	317.6	16.8	2.4	

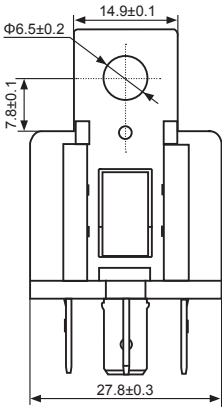
GENERAL DATA

Insulation Resistance		Min.100MΩ 500VDC
Dielectric Strength	Between open contacts	550VAC, 1min
	Between coil and contacts	550VAC, 1min
Operate Time		Max.10ms
Release Time		Max.10ms
		Max.20ms(With Diode)
Operating Temperature		-40℃ to +85℃
Humidity		35~95%RH, +40℃
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	100m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude
Weight	Approximately 37.0g (Bracket)	
	Approximately 32.0g (Without Bracket)	

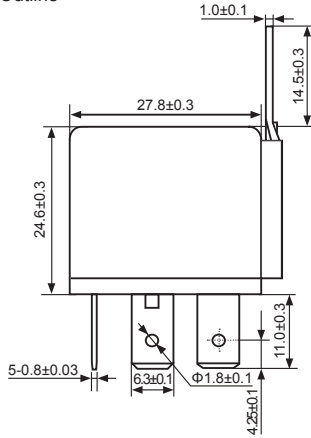
Note:Data shown are of initial value

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

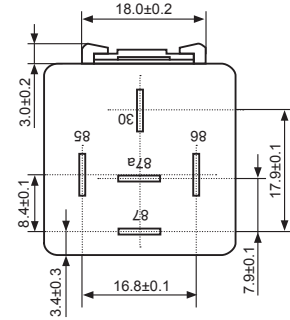
With Bracket



Outline

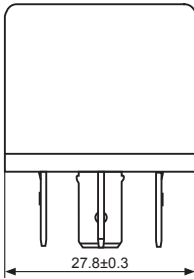


Mounting Hole Layout
(Bottom View)

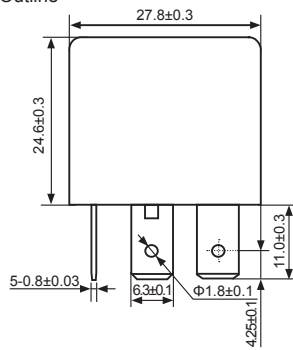


Remark: Form A: Without 87a terminal
Form U: With all terminals

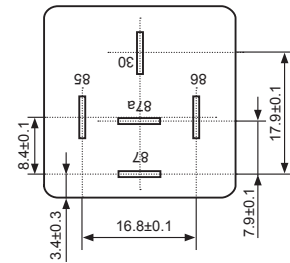
Without Bracket



Outline

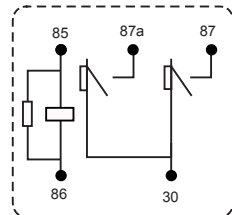
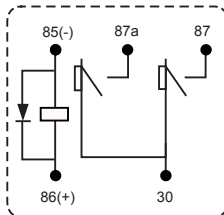
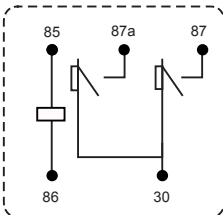


Mounting Hole Layout
(Bottom View)



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

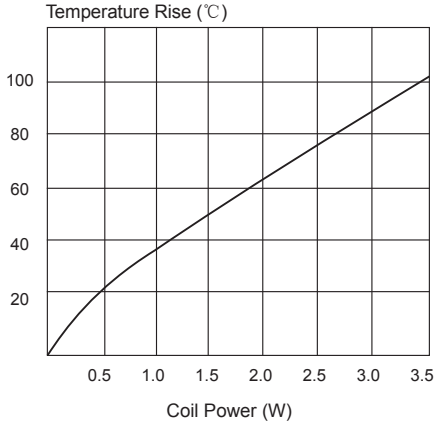
Wiring Diagram



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

REFERENCE DATA

Coil Temperature Rise



Life Curves

