

**RoHS  
Compliant**



## Features

- Heavy duty general purpose automotive relay
- Outline dimensions: 26mm × 26mm × 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

## Specification

Contact Data		
Contact Form	1 Form A	
Contact Material	Ag Alloy	
Contact Rating (Resistive)	6V,12V DC: 70A 14V DC 24V DC: 40A 28V DC	
Contact Resistance	Max. 50mΩ (6V DC 1A)	
Load	Max. Switching Voltage	50V DC
	Max. Switching Current	70A
	Max.Continuous Current	70A(23°C) ,50A(125°C)
	Min. Switching Load	1A 6V DC
Life	Electrical	1×10 <sup>5</sup> Cycles (70A 14V DC,720 cycles/h) 1×10 <sup>5</sup> Cycles (40A 28V DC,720 cycles/h)
	Mechanical	1×10 <sup>7</sup> Cycles (300 cycles/minutes)
Coil Data		
Nominal Coil Power	1.6W,1.8W	
General Data		
Insulation Resistance	Min. 500MΩ 500V DC	
Dielectric Strength	Between open contacts	550V AC, 1min
	Between coil and contacts	
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 Resistanc	294m/s <sup>2</sup> (30g)	
Vibration Resistance	10-55Hz, 3mm double amplitude 55-500Hz,176m/s <sup>2</sup> (18g)	
Weight	Approximately 32g (Without Bracket) Approximately 35.5g (Bracket)	
Mechanic	Cover Strength: 245N (Pull/Press) Terminal Strength: 100N (Pull/Press) Terminal Bending: 10N (Each Direction)	

Note:Data shown are of initial value

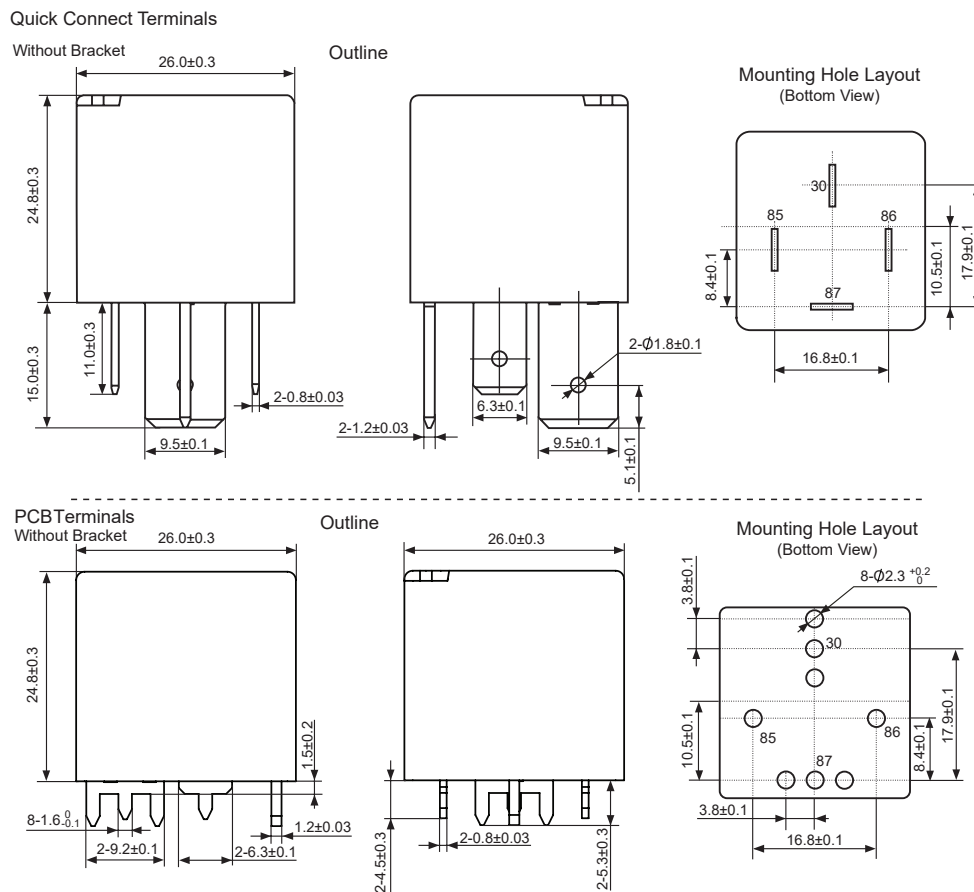
Newark.com/multicomp-pro  
Farnell.com/multicomp-pro  
sg.element14.com/b/multicomp-pro

## Coil Data

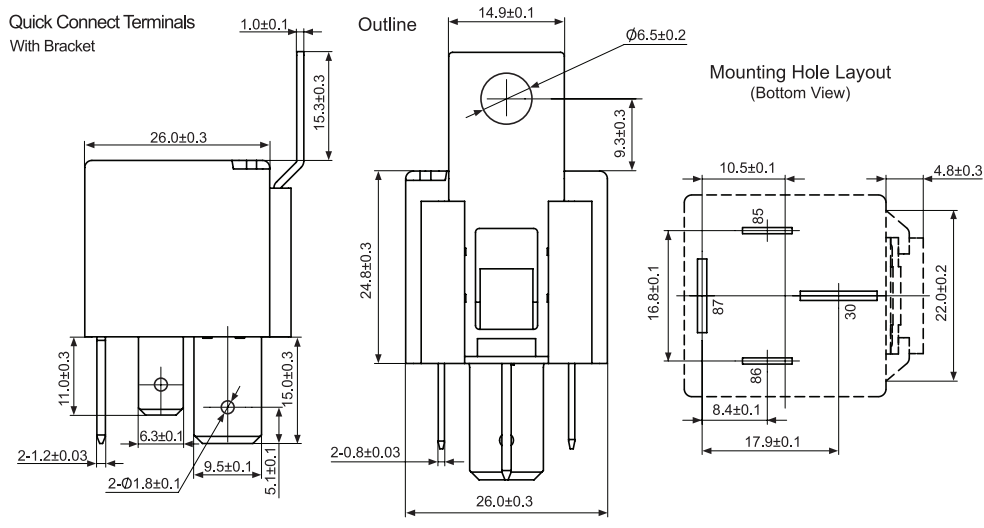
Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$	Parallel Resistance $\Omega \pm 5\%$	Equivalent Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ DC	Release Voltage $\geq$ VDC	Coil Power W
MPCMA34-DC12V-A-R	12	90	--	--	7.2	1.2	1.6
MPCMA34-DC12V-C-R			680	79.5			1.8

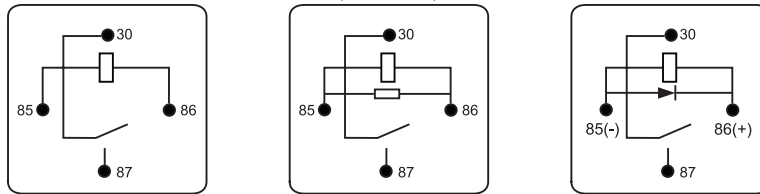
## Outline, Wiring Diagram, Mounting Hole Layout



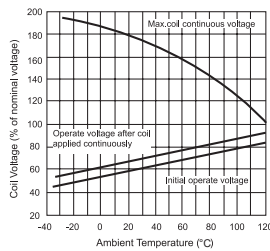
Dimensions : Millimetres



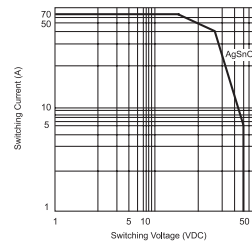
Wiring Diagram (Bottom View)



The range of coil continuous voltage



Max. permitted load



## Part Number Table

Description	Part Number
Automotive Relay, Quick Connect Type, NO, 1.6W, 70A, Unsealed	MPCMA35H-DC12V-A
Automotive Relay, Quick Connect Type, NO, 1.8W, 70A, Unsealed	MPCMA35H-DC12V-A-R

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