



Features

- Dimensions: 26mm × 26mm × 22.7mm
- 50A of switching capability
- 125°C of operating ambient temperature
- SPST and SPDT contact form
- Available for Plastic sealed and unsealed type

**RoHS
Compliant**

Specification

Contact Data		
Contact Form		1 Form A, 1 Form C
Contact Material		Ag Alloy
Contact Rating		Standard: NO: 40A/14V DC, NC:30A/14V DC NO: 20A/28V DC, NC:10A/28V DC T: NO: 50A/14V DC,NC:30A/14V DC NO: 30A/28V DC,NC:10A/28V DC
Contact Resistance		Max.50mΩ (24V DC 1A)
Load	Max. Switching Voltage	75V DC
	Max. Switching Current	Make: 150A (NO,surge), Break: 50A (steady-state)
	Max. Continuous Current	50A (125°C,1h)
	Min. Switching Load	1A 6V DC
Life	Electrical	100,000 Cycles
	Mechanical	1,000,000 Cycles (300 cycles/minutes)
Coil Data		
Nominal Coil Power		1.6W (Standard), 2W(T)
Nominal Coil Power (With Resistor)		1.8W (Standard), 2.2W(T)
General Data		
Insulation Resistance		Min.100MΩ 500V DC
Dielectric Strength	Between open contacts	550V AC,50/60Hz,1 min
	Between coil and contacts	
Operate Time		Max. 10ms
Release Time		Max. 10ms
		Max.20ms (With Diode)
Operating Temperature		-40°C to +125°C
Humidity		5-95%RH, 50°C
Shock Resistance		294m/s ²
Vibration Resistance		10Hz-22.3Hz,10mm Double Amplitude 22.3Hz-500Hz,98m/s ² (10g)
Weight		Approximately 32g (Without Bracket), Approximately 35g (Bracket)
Mechanic		Cover Strength: 200N (Pull/Press) Terminal Strength: 100N (Pull/Press) Terminal Bending: 10N (Each Direction)

Note:Data shown are of initial value

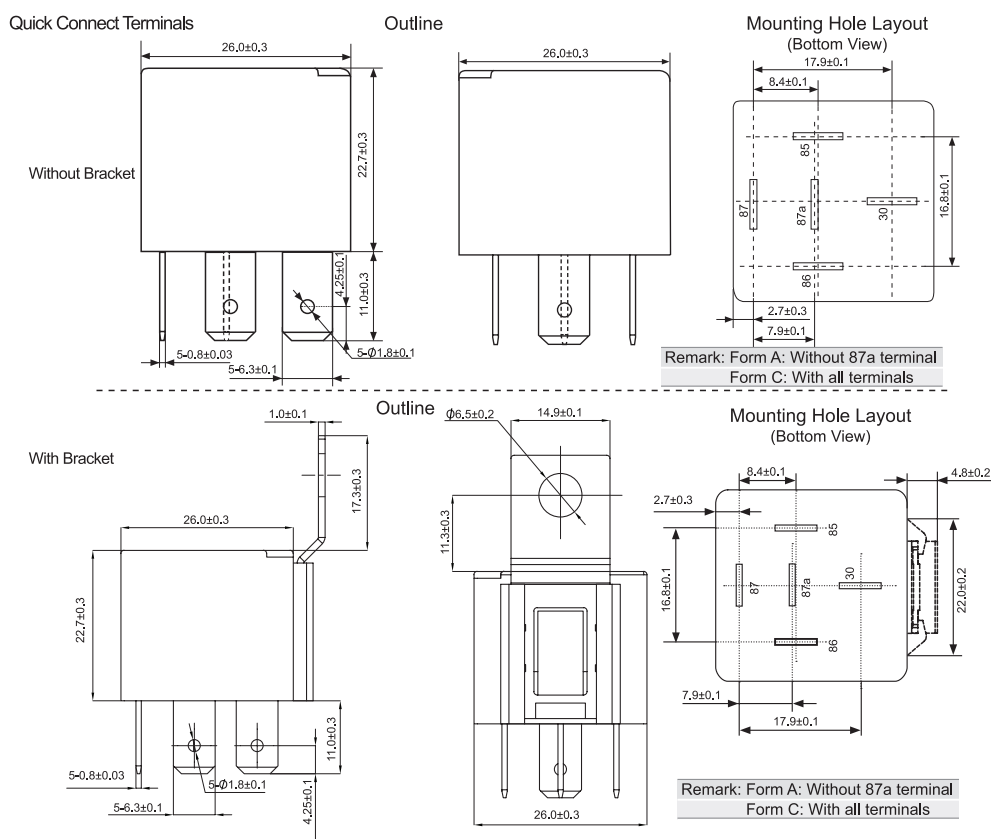
Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

Coil Data

Ambient Temperature: 23°C

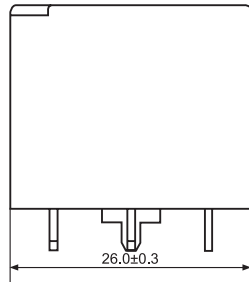
Model	Nominal Voltage V DC	Coil Resistance $\Omega \pm 10\%$	Parallel Resistance $\Omega \pm 5\%$	Equivalent Resistance $\Omega \pm 10\%$	Operate Voltage $\leq V$ DC	Release Voltage $\geq$ VDC	Coil Power W
MPCMA36-DC12V-A	12	90	--	--	7.8	1.2	1.6
MPCMA36-DC24V-A	24	360	--	--	16	2.4	
MPCMA36-DC12V-A-R	12	90	680	79.5	7.8	1.2	2
MPCMA36-DC24V-A-R	24	360	2700	317.6	16	2.4	1.8
MPCMA36-S-DC12V-A	12	72	--	--	7.8	1.2	2
MPCMA36-S-DC24V-A	24	288	--	--	16	2.4	
MPCMA36-S-DC12V-A-R	12	72	680	65.1	7.8	1.2	2.2
MPCMA36-S-DC24V-A-R	24	288	2700	260	16	2.4	

Outline, Wiring Diagram, Mounting Hole Layout

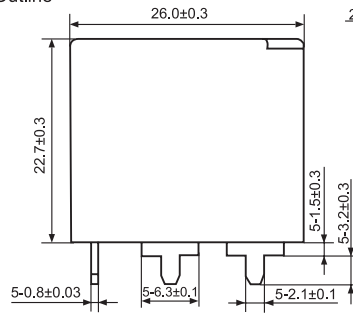


Dimensions : Millimetres

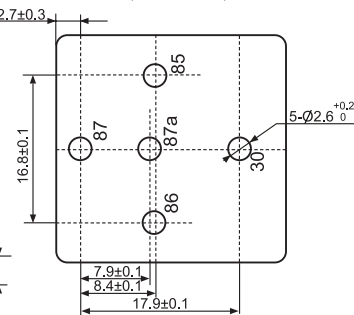
PCB Terminals
Without Bracket



Outline

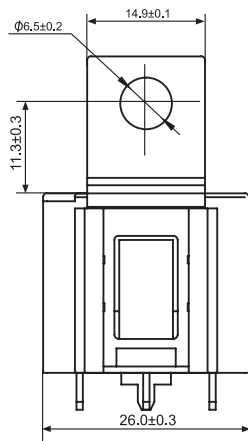


Mounting Hole Layout
(Bottom View)

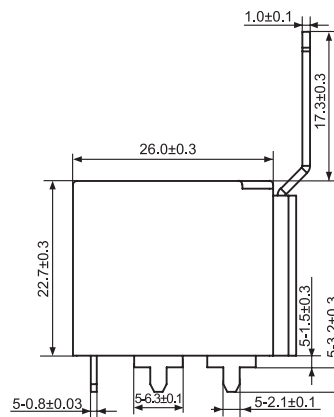


Remark: Form A: Without 87a terminal
Form C: With all terminals

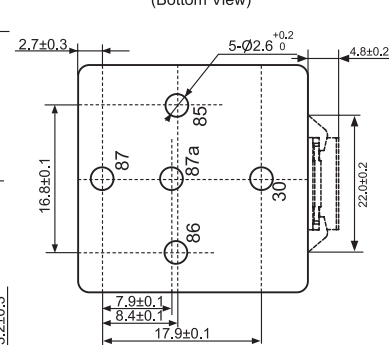
With Bracket



Outline

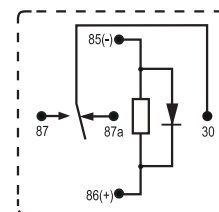
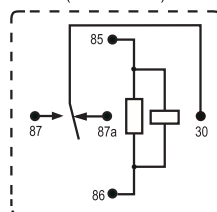
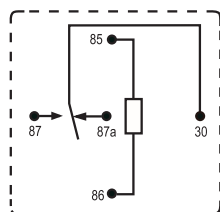


Mounting Hole Layout
(Bottom View)



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

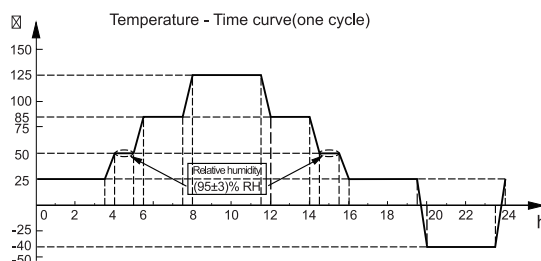
Wiring Diagram
(Bottom View)



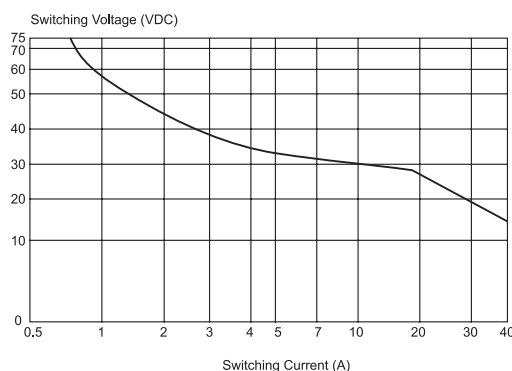
Remark: Form A: Without 87a terminal
Form C: With all terminals

Reference Data

Temperature curve for electrical endurance test



Max. switching power curve



Part Number Table

Description	Part Number
Automotive Relay, Quick Connect Type, NO, 12V, 1.6W, 40A, Unsealed	MPCMA36-DC12V-A
Automotive Relay, Quick Connect Type, NO, 24V, 1.6W, 40A, Unsealed	MPCMA36-DC24V-A
Automotive Relay, Quick Connect Type, NO, 12V, 1.8W, 40A, Unsealed	MPCMA36-DC12V-A-R
Automotive Relay, Quick Connect Type, NO, 24V, 1.8W, 40A, Unsealed	MPCMA36-DC24V-A-R
Automotive Relay, Quick Connect Type, NO, 12V, 1.6W, 40A, Sealed	MPCMA36-S-DC12V-A
Automotive Relay, Quick Connect Type, NO, 24V, 1.6W, 40A, Sealed	MPCMA36-S-DC24V-A
Automotive Relay, Quick Connect Type, NO, 12V, 1.8W, 40A, Sealed	MPCMA36-S-DC12V-A-R
Automotive Relay, Quick Connect Type, NO, 24V, 1.8W, 40A, Sealed	MPCMA36-S-DC24V-A-R

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