Automotive Relays

multicomp PRO



Features

- Microminiature: 22.5mm × 15.0mm × 25mm
- 125°C of operating ambient temperature
- 2.8mm of flat quick connection terminal

RoHS Compliant

Specifications

Contact Data		
Contact Form		1 Form A, 4 pins [MPCMA34-DC12V-A-R & MPCMA34-DC24V-A-R] 1 Form C, 5 pins [MPCMA34-DC12V-C-R & MPCMA34-DC24V-C-R]
Contact Material		Ag Alloy
Contact Rating (Resistive)		NO/NC: 35A/20A 14V DC NO/NC: 20A/10A 28V DC
Contact Resistance		Max. 50mΩ (6V DC 1A)
Load	Max. Switching Voltage	40V DC
	Max. Switching Current	Make:150A(1) Break: 35A
	Max.Continous Current	35A (125°C,1h)
	Min. Switching Load	1A 6V DC
Life	Electrical	100,000 operations
	Mechanical	10,000,000 operations
Coil Data		
Nominal Coil Power		12V: 1.2W,24V: 1.4W
Nominal Coil Power (With Resistor)		12V: 1.4W,24V: 1.6W
Max. Permitted Coil Voltage		1.2W: 20.4V DC(23°C),14.9V DC(85°C)
		1.4W: 36V DC(23°C), 28V DC(85°C)
General Data		
Insulation Resistance		Min. 100MΩ 500V DC
Dielectric Strength	Between open contacts	550V AC,50/60Hz, 1 min
	Between coil and contacts	550V AC,50/60Hz, 1 min
Operate Time		Max. 10ms
Release Time		Max. 10ms
		Max. 20ms (With Diode)
Operating Temperature		-40°C to +125°C
Humidity		35-85%RH
Shock Resistanc(2)		20G (≤1ms)
Vibration Resistance(2)		10-40Hz, 1.27mm double amplitude 40-70Hz, 49m/s^2 70-100Hz, 0.5mm double amplitude 100-500Hz, 98m/s^2
Weight		Approximately 18g

Remark: (1) Surge current for lamp
(2)The open time for Closed contact and the closed time for open contact is not more than 1ms

Note:Data shown are of initial value

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

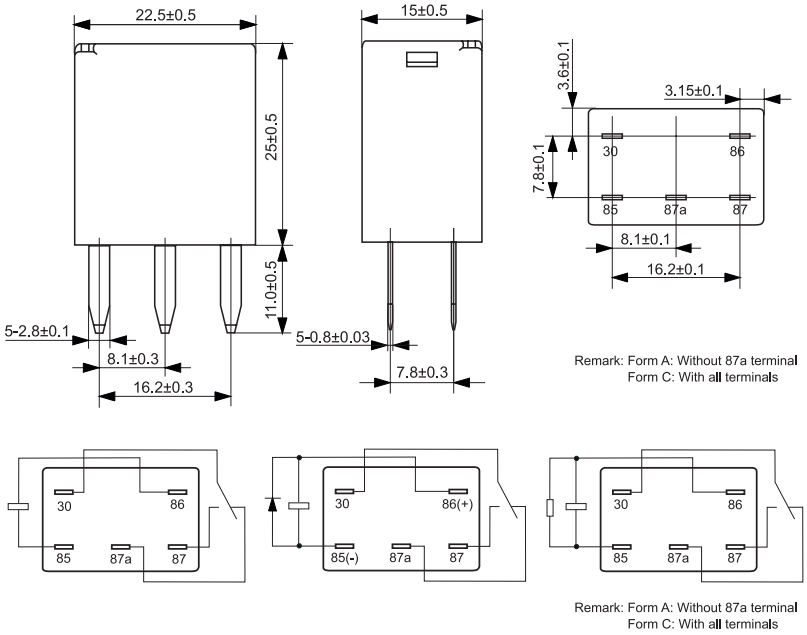
multicomp PRO

Coil Data

Ambient Temperature: 23°C

Model	Nominal Voltage V DC	Coil Resistance Ω+/-10%	Parallel Resistance Ω+/-5%	Equivalent Resistance Ω+/-10%	Operate Voltage ≤V DC	Release Voltage ≥V DC	Coil Power W
MPCMA34-DC12V-A-R	12	124	--	--	7.2	1.2	1.2
MPCMA34-DC12V-C-R			680	104.9			1.4
MPCMA34-DC24V-A-R	24	420	--	--	14.4	2.4	
MPCMA34-DC24V-C-R			2700	363.4			1.6

Outline, Wiring Diagram, Mounting Hole Layout



Dimensions : Millimetres

Part Number Table

Description	Part Number
Automotive Relay, Quick Connect Type, NO, 1.4W, 35A, Unsealed	MPCMA34-DC12V-A-R
Automotive Relay, Quick Connect Type,NO/NC, 1.4W, 35A/20A, Unsealed	MPCMA34-DC12V-C-R
Automotive Relay, Quick Connect Type, NO, 1.6W, 35A, Unsealed	MPCMA34-DC24V-A-R
Automotive Relay, Quick Connect Type,NO/NC, 1.6W, 35A/20A, Unsealed	MPCMA34-DC24V-C-R

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.