

Miniature Heavy Duty Automotive Relay, 30A



DESCRIPTION

A range of miniature heavy duty Automotive Relays. These miniature, heavy duty single pole, plug-in mounting relays are designed for switching control signals within automotive circuits.

DISTINCTIVE FEATURES

- Miniature heavy duty general purpose automotive relay
- Dimensions: 20.4×15.1×22.0(mm)
- Switching capacity 35A
- 1 Form A and C contact configurations
- Operating ambient temperature: 125°C
- Enclosure: S - Plastic Sealed Type
- Contact Material: Ag Alloy
- Electrical Life: 100,000 operations

APPLICATIONS

These miniature heavy duty automotive relays are typically used for switching vehicle headlights, fuel pumps and fans. They are also suitable for use in industrial applications, home automation, and security systems, where they can be used in automated processes, for amplifying weak signals, and providing isolation between circuits.

35A

30A

1 Form
A

1 Form
C

SPST

12V

24V



ELECTRICAL SPECIFICATION

Contact Form		1 Form A
Contact Rating - Coil Voltage 12VDC		NO: 35A 14VDC NC: 20A 14VDC
Contact Rating - Coil Voltage 24VDC		NO: 20A 28VDC NC: 10A 28VDC
125°C Switching Current - Coil Voltage 12VDC		NO: 20A(14VDC) NC: 10A(14VDC)
125°C Switching Current - Coil Voltage 24VDC		NO: 15A(28VDC) NC: 8A(28VDC)
Contact Resistance		Max. 50mΩ (6VDC 1A)
Insulation Resistance		Min. 100MΩ 500VDC
Load	Max Switching Voltage	28VDC
	Max Switching Current	35A
	Max Switching Power	490W (12VDC) 420W (24VDC)
	Max.Make Current	NO: 90A NC: 20A
Dielectric Strength	Between Open Contacts	550VAC, 1min
	Between Coil & Contacts	550VAC, 1min
Nominal Coil Power		1.5W(12V), 1.8W(24V)
Nominal Coil Power (With Resistor)		1.7W(12V), 2.0W(24V)
Nominal Coil Power (High Sensitivity)		1.1W(12V)
Nominal Coil Power (High Sensitivity) (With Resistor)		1.3W(12V)



ENVIRONMENTAL/OPERATING SPECIFICATION

Operating Temperature		-40°C to +125°C
Humidity		35~95%RH, +40°C
Shock Resistance	Endurance	1,000m/s ²
	Misoperation	1,00m/s ²
Vibration Resistance	Endurance	10~55Hz, 1.5mm double amplitude
	Misoperation	10~55Hz, 1.5mm double amplitude



TERMINALS

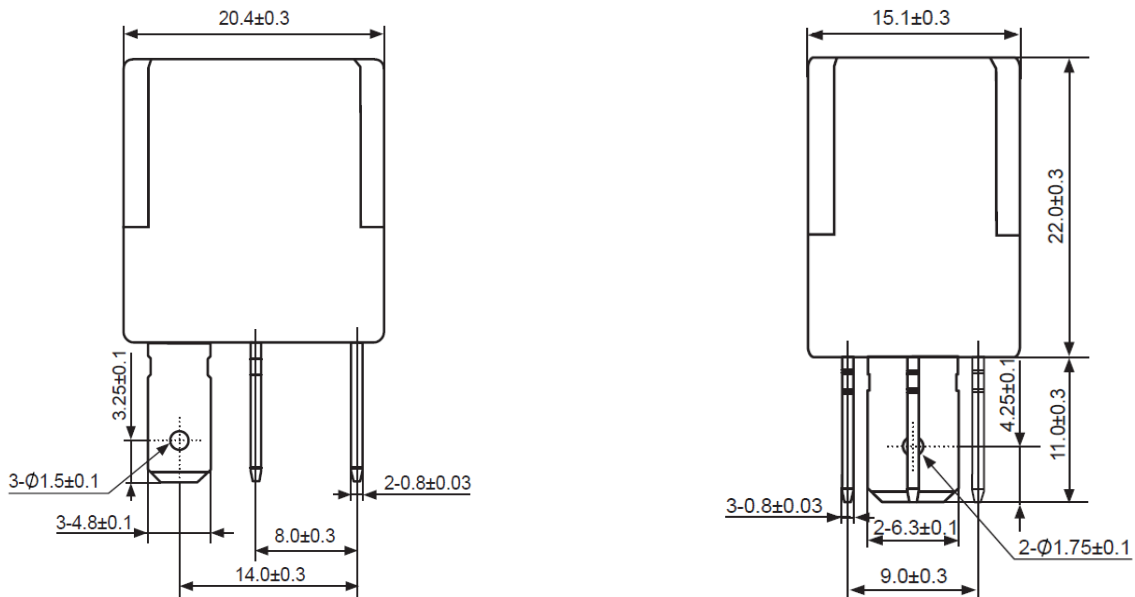
Terminal Type	Plug-in (Spade Connector)
Terminal Dimensions	See Drawings



DIMENSIONS/DRAWINGS

Units	mm – unless stated otherwise
Height (excluding pins)	22.0
Width/diameter	15.1
Length/depth	20.4
Weight	Approximately 18.0g

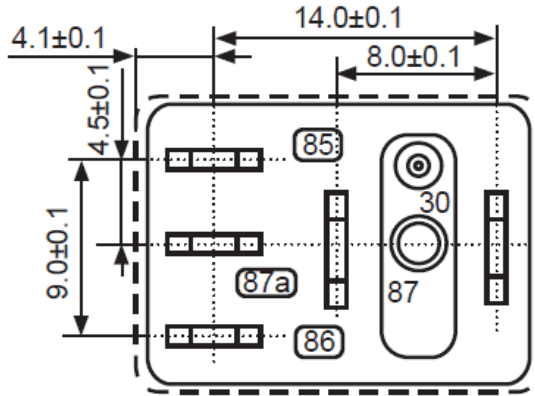
Dimensions





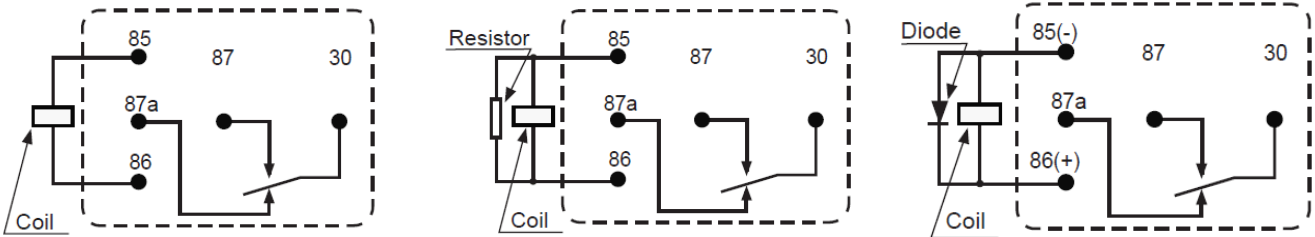
DIMENSIONS/DRAWINGS

Mounting hole layout



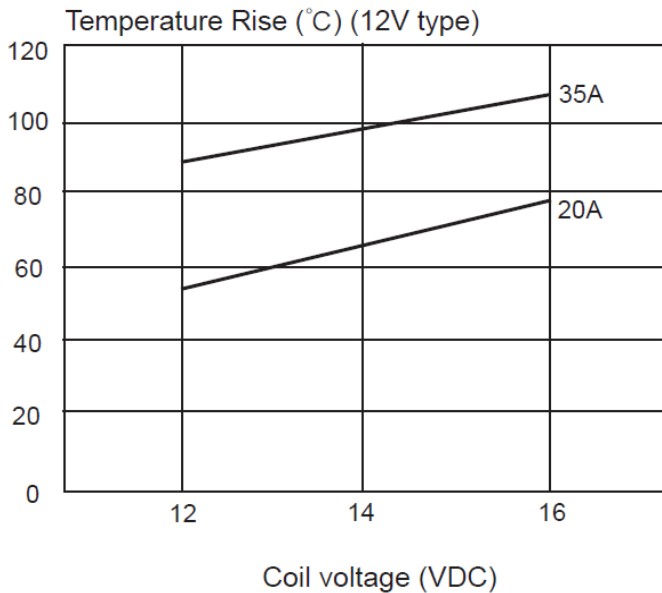
Form A: Without 87a terminal
Form C: With all terminals

Wiring diagram

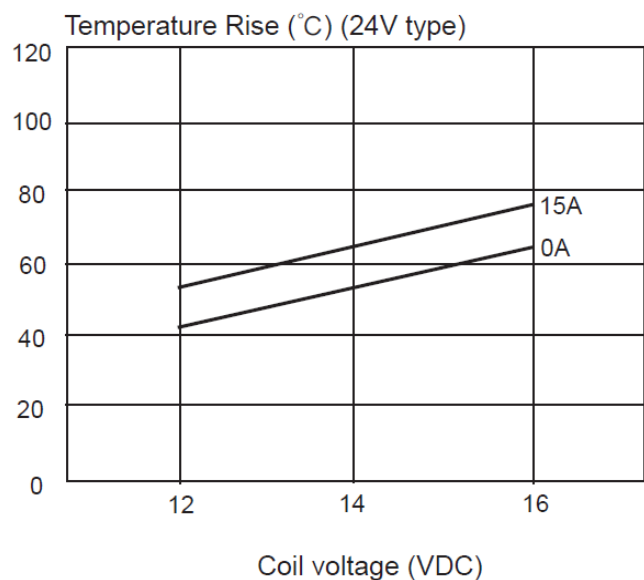


Form A: Without 87a terminal
Form C: With all terminals

Coil Temperature Rise 12V



Coil Temperature Rise 24V





PART NUMBER TABLE

Part number	Coil Power mW	Nominal Voltage VDC	Coil Resistance Ω +/-10%	Operating Voltage \leq VDC	Release Voltage \geq VDC	UNSPSC	EAN
61-6414	170	12	96	7.2	1.2	39122325	5053556032945
61-6415	200	24	320	14.4	2.4	39122325	5053556032945



OPTIONS (MOQ MAY APPLY)

Also available with a coil voltage of	12, 24 VDC
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For further information on pricing, delivery, and long-term stock agreements please get in touch with your local business development contact, telephone our main office on **01206 838000** or email **Sales@Rapidonline.com**.



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