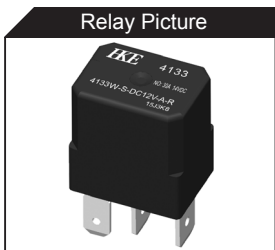




- ### Features
- Miniature heavy duty general purpose automotive relay
Dimensions: 20.4×15.1×23.0(mm)
 - Switching capacity 30A
 - 1 Form A and C contact configurations
 - Operating ambient temperature: 125°C
 - Applications: air compressor, heater, fan motor, blower fan, defogger, etc



ORDERING INFORMATION

4133W H - S - DC12V - A - R

Model	Coil Sensitivity	Enclosure	Coil Voltage	Contact Form	Parallel Electronic Component
	H-High Sensitivity Blank-Standard (Refer to "COIL DATA")	S - Plastic Sealed Type	DC12V DC24V	A - 1 Form A C - 1 Form C	Blank - Standard R- With Resistor (12V-680Ω, 24V-2700Ω) D- With Diode

SPECIFICATION

CONTACT DATA

Contact Form	1 Form A, 1 Form C	
Contact Material	Ag Alloy	
Contact Rating	Refer to table1	
Contact Resistance	Max. 50mΩ (6VDC 1A)	
Load	Max. Switching Voltage	28VDC
	Max. Switching Current	30A
	Max. Make Current	NO: 90A NC: 20A
	Max. Switching Power	490W (12VDC) 420W (24VDC)
Life	Electrical	100,000 operations
	Mechanical	1,000,000 operations

COIL DATA

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)

Table 1 (Contact Rating)

Type		Coil Voltage 12VDC	Coil Voltage 24VDC
Rating (Resistive Load)	Contact Rating	NO: 30A 14VDC NC: 20A 14VDC	NO: 15A 28VDC NC: 8A 28VDC
	125°C Switching Current	NO: 20A(14VDC) NC: 10A(14VDC)	NO: 15A(28VDC) NC: 8A(28VDC)

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
Operating Temperature		-40°C to +125°C
Humidity		35~95%RH, +40°C
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 16.0g

Note:Data shown are of initial value

4133W

AUTOMOTIVE RELAY

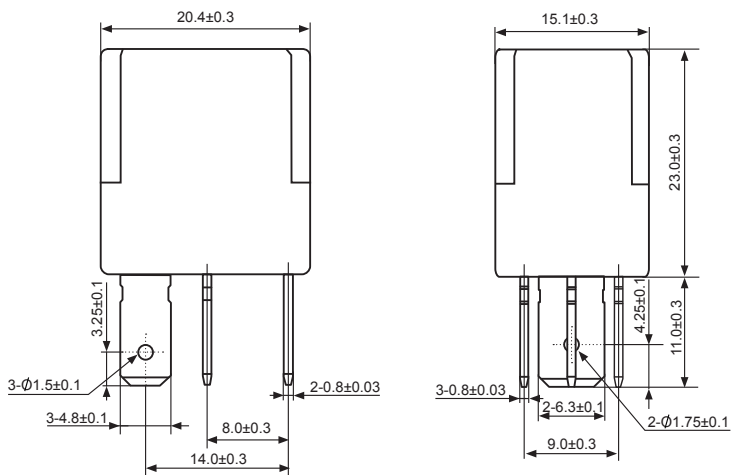
COIL DATA

Ambient Temperature: 23°C

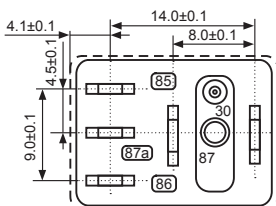
Model	Nominal Voltage VDC	Coil Resistance Ω +/-10%	Parallel Resistance Ω +/-5%	Equivalent Resistance Ω +/-10%	Operate Voltage \leq VDC	Release Voltage \geq VDC	Coil Power W
4133W-S-DC12V	12	96	-	-	7.2	1.2	1.5
4133W-S-DC24V	24	320	-	-	14.4	2.4	1.8
4133W-S-DC12V(R)	12	96	680	84.1	7.2	1.2	1.7
4133W-S-DC24V(R)	24	320	2700	286	14.4	2.4	2.0
4133WH-S-DC12V	12	130	-	-	7.2	1.2	1.1
4133WH-S-DC12V(R)	12	130	680	109	7.2	1.2	1.3

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

Outline



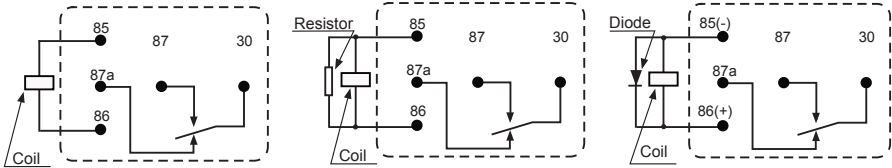
Mounting Hole Layout (Bottom View)



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

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

Wiring Diagram
(Bottom View)



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

REFERENCE DATA

Coil Temperature Rise

