

# 9100 series

## Power Relay
## 1- and 2-pole, 3-12 FLA
## AC or DC Coil

c UL us File E75492

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

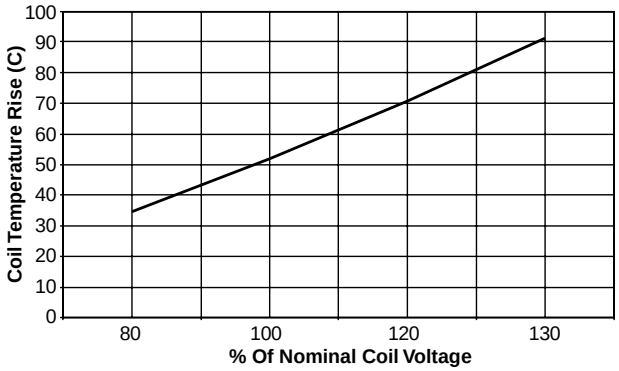
### Features
- Single- or double-pole relay used extensively in HVAC applications.
- Multi-positional mounting without affecting operation.
- Convenient 0.250" (6.35 mm) quick connect terminals.

### Contact Data @ 25°C
**Arrangements:** 1 Form A (SPST-NO), 1 Form B (SPST-NC), 1 Form C (SPDT), 2 Form A (DPST-NO), 2 Form B (DPST-NC), 2 Form C (DPDT) or 1 Form A + 1 Form B (SPST-NO+SPST-NC).
**Materials:** Silver, Fine Silver and Gold Alloy.
**Maximum Ratings:**
**Silver (Power) Contacts**
All Forms: 3/4 HP @ 125/250VAC;
12 FLA, 60 LRA, 15A resistive @ 125VAC;
6 FLA, 35 LRA, 15A resistive @ 250/277VAC;
3 FLA, 18 LRA, 12.5A resistive @ 480VAC;
3 FLA, 14 LRA @ 600VAC;
Form A only: 25A @ 277VAC, resistive.
**Fine Silver and Gold Alloy (Pilot) Contacts**
All Forms: 1/10 HP @ 125/250VAC;
3A @ 277VAC;
125VA @ 125VAC.
**Expected Life:** 1 million ops., mechanical.
250,000 ops., at rated resistive loads.
100,000 ops., at rated inductive loads.

### Initial Dielectric Strength
**Initial Breakdown Voltage:** 2,200 VAC @ 60 Hz. between live parts and exposed non-current carrying metal parts.

### Coil Data @ 25°C
**Voltage:** 12 & 24 VDC; 24-277 VAC, 50/60 Hz.
**Max. Sealed Power:** 9.5 VA (AC coils.); 5.75 W (DC coils).
**Nominal Inrush Power:** 21.5 VA (AC coils.); 5.75 W (DC coils).
**Insulation Class:** UL Class B (130°C).
**Duty Cycle:** Continuous.

### Coil Temperature Rise Above Ambient




### Operate Data @ 25°C
**Must Operate Voltage:** Approximately 85% of AC nominal coil voltage.
Approximately 75% of DC nominal coil voltage.

### Environmental Data
**Temperature Range:** Storage and Operating: -40°C – +65°C.

### Mechanical Data
**Termination:** 0.250" (6.35 mm) quick connects. Dual terminals on the coil are standard.
**Weight:** 6.08 oz. (173 g) approximately



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## Ordering Information

| Typical Part No. ▶ | 9100 | -2 | 3 | 3 | Q | 999 |
|---|---|---|---|---|---|---|

**1. Series:**
9100 = 1- or 2-pole, 3-12 FLA relay

**2. Pole Configuration:**
2 = Two-pole
3 = Single-pole (1,2,3 omitted)
4 = Single-pole (4,5,6 omitted)

**3. Contact Configuration – Poles 4, 5, 6:**
1 = 1 Form A (SPST-NO), Silver Contacts.
2 = 1 Form B (SPST-NC), Silver Contacts.
3 = 1 Form C (SPDT), Silver Contacts
4 = 1 Form A (SPST-NO), Fine Silver Contacts.
5 = 1 Form B (SPST-NC), Fine Silver Contacts.
6 = 1 Form C (SPDT), Fine Silver Contacts
7 = 1 Form A (SPST-NO), Gold Alloy Contacts.
8 = 1 Form B (SPST-NC), Gold Alloy Contacts.
9 = 1 Form C (SPDT), Gold Alloy Contacts
0 = 4, 5, 6 Omitted

**4. Contact Configuration – Poles 1, 2, 3:**
1 = 1 Form A (SPST-NO), Silver Contacts.
2 = 1 Form B (SPST-NC), Silver Contacts.
3 = 1 Form C (SPDT), Silver Contacts
4 = 1 Form A (SPST-NO), Fine Silver Contacts.
5 = 1 Form B (SPST-NC), Fine Silver Contacts.
6 = 1 Form C (SPDT), Fine Silver Contacts
7 = 1 Form A (SPST-NO), Gold Alloy Contacts.
8 = 1 Form B (SPST-NC), Gold Alloy Contacts.
9 = 1 Form C (SPDT), Gold Alloy Contacts

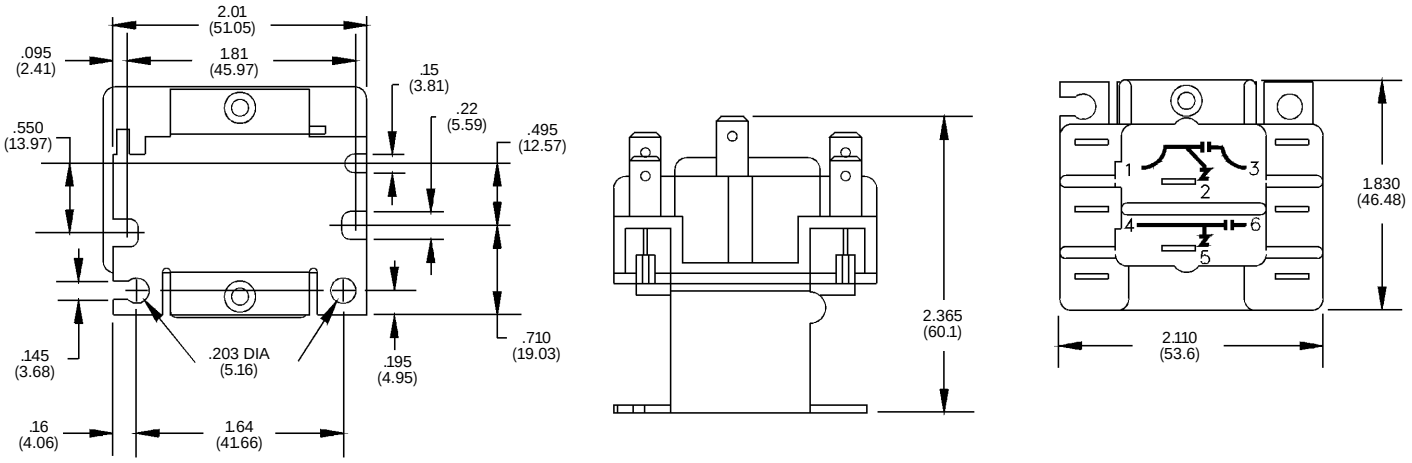
**5. Coil Voltage (50/60 Hz.):**
B = 12VDC
C = 24VDC
Q = 24VAC
P = 100VAC
T = 120VAC
S = 200VAC
U = 208/240VAC
N = 240VAC
V = 277VAC
QS = 24VAC, low VA

**6. Customer ID Suffix:**
999 = Standard Model
000-998 = Factory assigned customer ID

## Standard part numbers listed below are more likely to be available from stock.

9100-233Q999 9100-233T999 9100-233U999

## Outline Dimensions






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