

9100 series

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

 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.

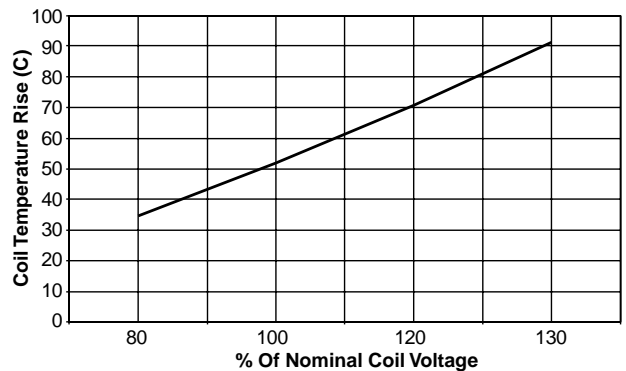
Initial Dielectric Strength

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

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

4. Contact Configuration – Poles 1, 2, 3:

- | | |
|---|--|
| 1 = 1 Form A (SPST-NO), Silver Contacts. | 7 = 1 Form A (SPST-NO), Gold Alloy Contacts. |
| 2 = 1 Form B (SPST-NC), Silver Contacts. | 8 = 1 Form B (SPST-NC), Gold Alloy Contacts. |
| 3 = 1 Form C (SPDT), Silver Contacts | 9 = 1 Form C (SPDT), Gold Alloy 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 | |

5. Coil Voltage (50/60 Hz.):

- | | | | | |
|-----------|------------|------------|----------------|--------------------|
| B = 12VDC | Q = 24VAC | T = 120VAC | U = 208/240VAC | V = 277VAC |
| C = 24VDC | P = 100VAC | S = 200VAC | N = 240VAC | 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

