

Product Details and Certifications

Cross Reference RA Part Number: 700-PL400B11 E

Product: 700-PL400B11

Description: 700-P NEMA Control Relay , 4 N.O. Contacts, 10 Amp AC
Contact Rating, 110-115V 50 Hz / 120V 60Hz



Representative Photo Only (actual product may vary based on configuration selections)

CONTROL RELAY DATA

| | |
|---------------------------|---|
| AC or DC Control Voltage? | AC Control Voltage |
| Contact Current Rating | 10 A |
| Time Delay Contact | Relay w/ Standard and Time Delay Contacts |
| Contact Configuration | 4 N.O. |
| Mounting Type | Open Type DIN Rail Mount |
| Coil Voltage | 110-115V 50 Hz / 120V 60Hz |

ENCLOSURE DATA

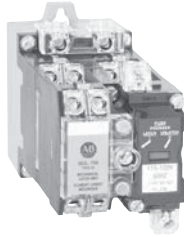
| | |
|----------------|-------------------|
| Enclosure Type | Open Style Device |
|----------------|-------------------|

CERTIFICATIONS AND APPROVALS

- UL
- CSA
- CE

Heavy-Duty Industrial Relays

Product Selection



Mechanical Latching Relays

- Factory-Assembled Bulletin 700-PL Latching Relays
- Converts all poles to latching
- AC latch coil — max. six poles latching
- DC latch coil — max. five poles latching
- Latching relays have two coils — latch coil is the relay coil, reset coil is on the latch attachment
- Latch/reset coils can have two AC coils, two DC coils, or one AC and one DC coil (e.g., latch with AC power, unlatch with DC battery)

Bulletin 700-P Standard Contact Cartridge*❄

| AC-Operated Relays | | | DC-Operated Relays | | | |
|--------------------|------|----------------------------------|--|----------------------------------|--|--|
| Contacts | | Contact Arrangement and Markings | Open Type Relay Rail Mount with Mechanical Latch Attachment (Read ATTENTION Below) | Contact Arrangement and Markings | Open Type Relay Rail Mount with Mechanical Latch Attachment (Read ATTENTION Below) | Open Type DIN Rail Mount with Mechanical Latch Attachment (Read ATTENTION Below) |
| N.O. | N.C. | | | | | |
| 0 | — | — | — | — | — | — |
| 2 | — | <p>6-Pole Relay</p> | 700-PL200❄ | <p>5-Pole Relay</p> | 700DC-PL200❄ | 700DC-PL200D❄ |
| 4 | — | | 700-PL400❄ | | 700DC-PL400❄ | 700DC-PL400D❄ |
| 6 | — | | 700-PL600❄ | | 700DC-PL500❄ | 700DC-PL500D❄ |

❄AC Coil Voltage Code

The Cat. No. as listed is incomplete. Select a voltage suffix code from the table below to complete the Cat. No. Example: **Cat. No. 700-PL200❄** becomes **Cat. No. 700-PL200A48**. For other coil voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

Relays with latch attachments: if the latch attachment coil is to be a different voltage other than the relay coil, add a second coil code suffix. Example: **Cat. No. 700-PL400A1A24**. Only one suffix is required if both coils are the same voltage.

| Hz | 24 | 48 | 110 | 110-115 | 115-120 | 120 | 127 | 200-208 | 220-230 | 230-240 | 277 | 347 | 380 | 415 | 440-480 | 460-480 | 500 | 575-600 |
|----|-----|-----|-----|---------|---------|------|-----|---------|---------|---------|-----|-----|-----|-----|---------|---------|-----|---------|
| 50 | B24 | B48 | A1❄ | B11+ | — | — | B27 | — | B22 | B2 | — | — | B3 | B41 | B44 | — | B50 | — |
| 60 | A24 | A48 | — | — | A1❄ | B11+ | — | A20 | A22 | A2 | A27 | A35 | — | — | — | A4 | — | A6 |

❄ Optimized for 115...120V, 60 Hz. Operates satisfactorily at 110V, 50 Hz.

+ Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

❄DC Coil Voltage Code

The Cat. No. as listed is incomplete. Select a voltage suffix code from the table below to complete the Cat. No. Example: **Cat. No. 700DC-PL200❄** becomes **Cat. No. 700DC-PL200Z12**. For other coil voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

| 6 | 12 | 18 | 24 | 32 | 48 | 64 | 72 | 90 | 115-125 | 230-250 | 500-550 | 575-600 |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|---------|---------|
| Z06 | Z12 | Z18 | Z24 | Z32 | Z48 | Z64 | Z72 | Z90 | Z1 | Z2 | Z5 | Z6 |

ATTENTION – An open or failed unlatch control circuit will fail to unlatch the relay. For this reason, a mechanical latch unit should not be used where protection is needed against automatic restart after a power failure or where reliability to a control function is critical to safety.

* **Normally closed contacts:** The normally open contacts can easily be changed to normally closed in the field. Relays can be supplied with N.C. contacts.

❄ **Overlap contacts:** To order a relay containing one pair: Use **Cat. No. 700-PTZ110**. To order a relay containing two pairs: Use **Cat. No. 700-PTZ2220**. N.O. contact closes before N.C. contact opens. AC Ratings: NEMA A600, DC Ratings: P161.

‡ Location of contacts in 2-pole relays.

§ Location of contacts in 4-pole relays: 2-pole relay plus the 2 contacts indicated.



| Type | | 700-P, PL , PT | | | | | | 700-PK, PKL, PKT | | | | | | 700-PH | | | | | | | |
|--|----------|--|------------------------------------|---------|-------|---------|--------|--|------------------------------------|----------|-------|---------|--------|---|------------------------------------|---------|-------|---------|--------|-------|--|
| Electrical | | | | | | | | | | | | | | | | | | | | | |
| Contact Rating Continuous | | 10 A @ 600V AC 5 A @ 600V DC | | | | | | 20 A @ 600V AC 10 A @ 600V DC | | | | | | 35 A @ 600V AC 20 A @ 600V DC | | | | | | | |
| Ratings Make/Break | AC | NEMA A600 | | | | | | 2 x NEMA A600 | | | | | | 2 x NEMA A600 | | | | | | | |
| | DC | NEMA P600 | | | | | | 2 x NEMA P600 | | | | | | 2 x NEMA P600 | | | | | | | |
| Additional Contact Ratings for AC single-phase loads | | — | | | | | | 3 Hp @ 240V AC - N.O. 2 Hp @ 240V AC - N.O./N.C. 1 Hp @ 120V AC - N.O./N.C. 20 A Resistive Heating to 600V AC 20 A Tungsten Lighting Load to 480V AC | | | | | | 5 Hp @ 240V AC - N.O. 3 Hp @ 240V AC - N.O./N.C. 2 Hp @ 120V AC - N.O./N.C. 35 A General Use At 0.75 PF to 600V AC 35 A Tungsten Lighting Load to 480V AC | | | | | | | |
| DC Current Ratings Make/Break | | Cartridge Cat. No. 700-CP1 | | | | | | Cartridge Cat. No. 700-CPM | | | | | | Cartridge Cat. No. 700-CPH | | | | | | | |
| DC Switching | | Volts DC | | | | | | | | | | | | | | | | | | | |
| | | Contacts in Series | 24 | 64 | 125 | 250 | 500 | 600 | 24 | 64 | 125 | 250 | 500 | 600 | 24 | 64 | 125 | 250 | 500 | 600 | |
| | | | 5 A | 2.2 A | 1.1 A | .55 A | .24 A | .2 A | 10 A | 5 A | 2.2 A | .55 A | .24 A | .2 A | 10 A | 5 A | 2.2 A | .55 A | .24 A | .2 A | |
| | | 1 | 5 A | 2.2 A | 1.1 A | .55 A | .24 A | .2 A | 10 A | 5 A | 2.2 A | .55 A | .24 A | .2 A | 10 A | 5 A | 2.2 A | .55 A | .24 A | .2 A | |
| | | 2 | 10 A | 10 A | 5 A | 2 A | .7 A | .5 A | 20 A | 10 A | 5 A | 2 A | .7 A | .5 A | 20 A | 10 A | 5 A | 2 A | .7 A | .5 A | |
| | | 3 | — | — | 7 A | 3 A | 1.5 A | 1.0 A | — | 15 A | 7 A | 3 A | 1.5 A | 1.0 A | — | 15 A | 7 A | 3 A | 1.5 A | 1.0 A | |
| | | 4 | — | — | 10 A | 5 A | 2.5 A | 1.5 A | — | 20 A | 10 A | 5 A | 2.5 A | 1.5 A | — | 20 A | 10 A | 5 A | 2.5 A | 1.5 A | |
| Coil Voltage Range | | AC | 85...110% | | | | | | 85...110% | | | | | | 85...110% | | | | | | |
| | | DC | 80...110% | | | | | | 80...110% | | | | | | 80...110% | | | | | | |
| | | Battery Charging | 85...115% | | | | | | 85...115% | | | | | | 85...115% | | | | | | |
| Coil Consumption P-PH-PK | | A | 50 Hz | | | 60 Hz | | | 50 Hz | | | 60 Hz | | | 50 Hz | | | 60 Hz | | | |
| | | | Inrush | 132VA* | | | 138VA* | | | 132VA* | | | 138VA* | | | 132VA* | | | 138VA* | | |
| | | C | Sealed | 19.3VA* | | | 19VA* | | | 19.3 VA* | | | 19VA* | | | 19.3VA* | | | 19VA* | | |
| | | | D | 12.7VA* | | | | | | 12.7VA* | | | | | | 12.7VA* | | | | | |
| | | C | 12.7VA* | | | | | | 12.7VA* | | | | | | 12.7VA* | | | | | | |
| PLL - PKLL AC Latch Unit | | Inrush | 15VA* | | | 15.6VA* | | | 5VA* | | | 15.6VA* | | | 15VA* | | | 15.6VA* | | | |
| | | Sealed | 5.4VA* | | | 5.5VA* | | | 5.4VA* | | | 5.5VA* | | | 5.4VA* | | | 5.5VA* | | | |
| PLL - PKLL DC Latch Unit | | Unlatch | 35VA* | | | | | | 35VA* | | | | | | — | | | | | | |
| | | Intermittent | 35 W* | | | | | | 35 W* | | | | | | — | | | | | | |
| Reset Time | PT - PKT | 75 ms | | | | | | 75 ms | | | | | | — | | | | | | | |
| Minimum Pulse | PLL-PKLL | 75 ms | | | | | | 75 ms | | | | | | — | | | | | | | |
| Mechanical | | | | | | | | | | | | | | | | | | | | | |
| Operating Time | | Pickup | AC - 10...20 ms DC - 30...50 ms | | | | | | AC - 10...20 ms DC - 30...50 ms | | | | | | AC - 10...20 ms DC - 30...50 ms | | | | | | |
| | | Dropout | AC - 10...20 ms DC - 20...33 ms | | | | | | AC - 10...20 ms DC - 20...33 ms | | | | | | AC - 10...20 ms DC - 20...33 ms | | | | | | |
| Mechanical Life | | 10 million operations | | | | | | | | | | | | | | | | | | | |
| Construction | | | | | | | | | | | | | | | | | | | | | |
| Contact Arrangement | | Up to 12 Poles, Convertible to N.O. or N.C. (8 N.C. Maximum) | | | | | | Up to 12 Poles, Convertible to N.O. or N.C. (8 N.C. Maximum) | | | | | | Up to 6 Poles, Convertible to N.O. or N.C. (4 N.C. Maximum) | | | | | | | |
| Contact Material | | Nickel Silver | | | | | | Silver Cadmium Oxide | | | | | | Silver Cadmium Oxide | | | | | | | |
| Mounting | | Panel or Strip Mount Horizontal Mounting Recommended | | | | | | Panel or Strip Mount Horizontal Mounting Recommended | | | | | | Panel or Strip Mount Horizontal Mounting Recommended | | | | | | | |
| Environmental | | | | | | | | | | | | | | | | | | | | | |
| Temperature | | Operating* | -20...+65 °C (-4...149 °F) | | | | | | -20...+65 °C (-4...149 °F) | | | | | | -20...+65 °C (-4...149 °F) | | | | | | |
| | | Storage | -40...+65 °C (-40...149 °F) | | | | | | -40...+65 °C (-40...149 °F) | | | | | | -40...+65 °C (-40...149 °F) | | | | | | |
| Certifications | | CSA Certified, CSA File #LR1234, UL Listed, UL File #E14840, Guide NKCR, CE Certified, ABS | | | | | | | | | | | | | | | | | | | |
| Standards | | UL 508, CSA C22.2 No. 14, EN/IEC 60947-1, -5-1 | | | | | | | | | | | | | | | | | | | |
| Wire Terminations | | | | | | | | | | | | | | | | | | | | | |
| Wire size per UL/CSA | | #18 AWG...(2) #12 AWG | | | | | | | | | | | | | | | | | | | |
| Tightening Torque | | 8...12 lb•in (0.9...1.4 N•m) | | | | | | | | | | | | | | | | | | | |

* Temperature inside the panel.

* Average value for all coils within range. For values on a specific coil voltage, contact your local Rockwell Automation sales office or Allen-Bradley distributor.