

Product Details and Certifications

Cross Reference RA Part Number: 700-P1200B2 E

Product: **700-P1200B2**

Description: 700-P NEMA Heavy-Duty Industrial Relay , 12 N.O. Contacts,
10 Amp AC Contact Rating, 230-240V 50Hz, Open Type DIN
Rail Mount



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 | 12 N.O. |
| Mounting Type | Open Type DIN Rail Mount |
| Coil Voltage | 230-240V 50Hz |

ENCLOSURE DATA

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

CERTIFICATIONS AND APPROVALS

UL
CSA
CE

RECOMMENDED SPARE PARTS

| | |
|--------|------------------------------|
| PA-342 | COIL,230-240V 50HZ FOR RELAY |
|--------|------------------------------|

NEMA Heavy-Duty Industrial Controls

Overview/Product Selection



700-P

Bulletin 700-P and 700-PK — Direct Drive™ Convertible Contact Cartridge Relays

- NEMA and IEC ratings
- 600V maximum AC/DC
- Accessories for field installation: Adder Decks, time delay, latching, surge suppressors, mounting strip
- Contact Ratings: (10 A) 700-CP1, (20 A) 700-CPM, (35 A) 700-CPH, (Low Power) 700-CPR
- For machine tool and other heavy-duty applications
- Can accommodate ring tongue terminals
- Integral DIN Rail adapter on AC relays
- Finger-safe protection standard

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Standards

UL 508

CSA C22.2, No. 14

EN/IEC 60947-1, -5-1

Certifications

cULus Listed (File No. E14840, Guide NKCR/NKCR7)

ABS Certified

Description

The Bulletin 700-P family of relays has four types of contact cartridges to meet your specific switching requirements. Different cartridges can be combined into one relay to yield a custom-tailored application solution. Time delay, latching attachments, overlapping, and logic reed contacts are available.

Bulletin 700-P relays use standard (10 A) contact cartridges with a double-break and bifurcated design. Bifurcation provides excellent contact reliability and low-contact bounce, while the double-break contact design reduces the possibility of contacts welding and enhances the relay's ability to break DC circuits. These relays are supplied with a max. of 12 contacts (max. 8 N.C.).

Bulletin 700-PK master control relays contain (20 A) master contact cartridges with large single-contact pads on each side of the spanner for twice the current rating to control heavy loads and for master control of a system. The Bulletin 700-PK relay also has the same doublebreak design as the 700-P relay. These relays are supplied with a max. of 12 contacts (max. 8 N.C.). Time delay and latching attachments are available.

Bulletin 700-P and **-PK** relays combine the advantages of convertible contacts with **Direct Drive**, a construction designed to maintain non-overlap operation between N.O. and N.C. contacts (within published ratings).

Bulletin 700-PH relays contain (35 A) tandem contact cartridges. A jumper kit (Cat No. 700-CPH) allows two (20 A) master contact cartridges to be connected in parallel. A maximum of six poles are supplied, up to four of which can be normally closed. Time delay and latch attachments are available.

Electrically Held Relays

Bulletin 700-P Standard Contact Cartridge*❄

AC-Operated Relays

| | Contacts | | Contact Arrangement and Markings | Open Type Relay Rail Mount |
|--|----------|------|--|----------------------------|
| | N.O. | N.C. | | Cat. No. |
| | 2 | — | 4-Pole Relay K1 A1X ‡ A2X A3X A4X ‡ K2 A1Y A2Y A3Y A4Y | 700-P200❄ |
| | 4 | — | | 700-P400❄ |
| | 6 | — | 8-Pole Relay B1X § B2X B3X B4X § B1Y B2Y B3Y B4Y | 700-P600❄ |
| | 8 | — | | 700-P800❄ |
| | 10 | — | 12-Pole Relay C1X * C2X C3X C4X * C1Y C2Y C3Y C4Y | 700-P1000❄ |
| | 12 | — | | 700-P1200❄ |

❄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-P200❄** becomes **Cat. No. 700-P200A48**. For other coil voltages, consult your local Rockwell Automation sales office or Allen-Bradley distributor.

| 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.

‡ Location of contacts in 2-pole relays. § Location of contacts in 6-pole relays: 4-pole relay plus the two contacts indicated.

* Location of contacts in 10-pole relays: 8-pole relay plus the two contacts indicated.

* **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-PZ110**. To order a relay containing two pairs: Use **Cat. No. 700-PZ2220**. N.O. contact closes before N.C. contact opens. AC Ratings: NEMA A600, DC Ratings: P161.

➤ See Accessories on page 9-123 for NEMA Type 1, Type 4/4X, and Type 7/9 enclosures available for field installation.





| 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 | |
| | | 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 | Inrush | 12.7VA* | | | | | | 12.7VA* | | | | | | 12.7VA* | | | | |
| | | C | Sealed | 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.