

Cat. No. 700-P400A1



Cat. No. 700-PK400A1



Cat. No. 700DC-P200



Cat. No. 700-PH200



Bulletin 700

Direct Drive™ Convertible Contact Cartridge Relays

- NEMA and IEC Ratings
- 600V Maximum AC/DC
- Contact Ratings:
 - 10 A 700-CP1-and 700-CPS
 - 20 A 700-CPM
 - 35 A 700-CPH
 - Low Power 700-CPR
- Easy Accessory Additions:
 - Adder Decks
 - Time Delay
 - Latching
 - Surge Suppressors
 - Mounting Strip
- For Machine Tool and Other Heavy Duty Applications
- Can Accommodate Ring Tongue Terminals
- Expands Safety Relay Outputs

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Description

The Bulletin 700-P family of relays has 4 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 reduced 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 double-break design as the -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 tandem contact relays include 35 A jumper kits (**Cat. No. 700-CPH**) to parallel two 20 A master contact cartridges. A maximum of six poles are supplied, up to four of which can be normally closed. Time delay and latch attachments are available.

Conformity to Standards:

IEC 947-5-1 IEC 337-1 CENELEC BS 4794

VDE 0660

Listed: U.S. Coast Guard and American

Bureau of Shipping

Approvals:

CSA Certified CSA File #LR1234

UL Listed

UL File #E14840, Guide NKCR

CE Certified

Your order must include:

- Cat. No. of the relay selected.
- Coil voltage suffix code.
- If required, Cat. No. of any accessories.

Electrically Held Relays

AC-Operated Relays

Con	tacts	Contact Arrangement	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
N.O.	N.C.	and Markings	Cat. No. 0 0	Cat. No. @
2	_	K1 A1X ❸ A2X A3X A4X ❸ 4-Pole	700-P200⊗	700-P201⊗
4	_	Relay	700-P400⊗	700-P401⊗
6	_	B1X ④ B2X B3X B4X ④ 8-Pole	700-P600⊗	700-P601⊗
8	_	Relay ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	700-P800⊗	700-P801⊗
10	_	C1X © C2X C3X C4X ©	700-P1000⊗	700-P1001⊗
12	_	Relay C1Y C2Y C3Y C4Y	700-P1200⊗	700-P1201⊗

⊗ AC Voltage Suffix 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 \otimes becomes Cat. No. 700-P200A48. For other coil voltages, consult your local Allen-Bradley Sales Office.

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.

DC-Operated Relays

Con	tacts	Contact Arrangement	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
N.O.	N.C.	and Markings	Cat. No. @	Cat. No. @
2	_	K1 A1X ® A2X A3X A4X ® 4-Pole	700DC-P200⊗	700DC-P201⊗
4	_	Relay K2 A1Y A2Y A3Y A4Y	700DC-P400⊗	700DC-P401⊗
6	_	B1X ④ B2X B3X B4X ④ 8-Pole	700DC-P600⊗	700DC-P601⊗
8	_	Relay	700DC-P800⊗	700DC-P801⊗
10	_	C1X ⑤ C2X C3X C4X ⑥ 12-Pole	700DC-P1000⊗	_
12	_	Relay C1Y C2Y C3Y C4Y	700DC-P1200⊗	_

⊗ DC Voltage Suffix 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-P200⊗ becomes Cat. No. 700DC-P200Z48. For other coil voltages, consult your local Allen-Bradley Sales Office.

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

- 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: P150.
- O Location of contacts in 2-pole relays.
- Location of contacts in 6-pole relays: 4-pole relay plus the 2 contacts indicated.
- Location of contacts in 10-pole relays: 8-pole relay plus the 2 contacts indicated.
- 6 All Cat. Nos. are factory stocked.

[†] Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

Product Selection, Continued

Electrically Held Relays

Bulletin 700-PK Master Contact Cartridges

AC-Operated Relays

Con	tacts	Contact Arrangement	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
N.O.	N.C.	and Markings	Cat. No. @	Cat. No. @
2	_	K1 A1X	700-PK200⊗	700-PK201⊗
4	_	Relay K2 A1Y A2Y A3Y A4Y	700-PK400⊗	700-PK401⊗
6	_	B1X [®] B2X B3X B4X [®]	700-PK600⊗	700-PK601⊗
8	_	8-Pole	700-PK800⊗	700-PK801⊗
10	_	C1X	700-PK1000⊗	700-PK1001⊗
12	_	Relay C1Y C2Y C3Y C4Y	700-PK1200⊗	700-PK1201⊗

AC Voltage Suffix 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-PK200⊗ becomes Cat. No. 700-PK200A48. For other coil voltages, consult your local Allen-Bradley Sales Office.

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	_	_	В3	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.

DC-Operated Relays

Con	tacts	Contact Arrangement and Markings	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
N.O.	N.C.	and Markings	Cat. No. @	Cat. No. @
2	_	K1 A1X	700DC-PK200⊗	700DC-PK201⊗
4	_	Relay	700DC-PK400⊗	700DC-PK401⊗
6	_	B1X ^❸ B2X B3X B4X ^❸ 8-Pole	700DC-PK600⊗	700DC-PK601⊗
8	_	Relay	700DC-PK800⊗	700DC-PK801⊗
10	_	C1X 	700DC-PK1000⊗	_
12	_	Relay C1Y C2Y C3Y C4Y	700DC-PK1200⊗	_

⊗ DC Voltage Suffix 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-PK200⊗ becomes Cat. No. 700DC-PK200Z12. For other coil voltages, consult your local Allen-Bradley Sales Office

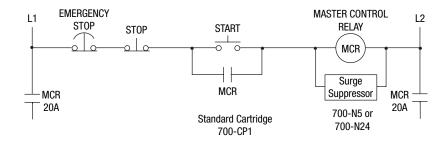
6	12	18	24	32	48	64	72	90	115-125	230-250	500-550	575-600
Z06	Z12	Z18	Z24	Z32	Z48	Z64	Z72	Z90	Z1	Z2	Z5	Z6

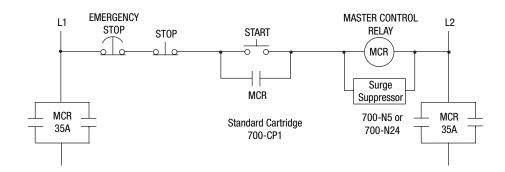
- Normally closed contacts: The normally open contacts can easily be changed to normally closed in the field. Relays can be supplied with N.C.
- Location of contacts in 2-pole relays.
- Location of contacts in 6-pole relays: 4-pole relay plus the 2 contacts indicated.
- Location of contacts in 10-pole relays: 8-pole relay plus the 2 contacts indicated.

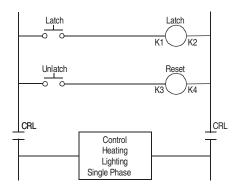
3 All Cat. Nos. are factory stocked.

[†] Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

Electrically Held Relays — Typical Wiring Diagrams







Electrically Held Relays

AC-Operated Relays

	Con	tacts	Contact Arrangement	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
	N.O.	N.C.	and Markings	Cat. No. @	Cat. No. @
	1	_	K1 A1X❷ A2X A3X A4X	700-PH100⊗	700-PH101⊗
	2	_	K2 A1Y A2Y A3Y A4Y	700-PH200⊗	700-PH201⊗
The state of the s	3	_	B1X ❸ B2X B3X B4X 4-Pole	700-PH300⊗	700-PH301⊗
	4	_	Relay B2Y B3Y B4Y	700-PH400⊗	700-PH401⊗
Cat. No. 700-PH200	6	_	C1X C2X C3X C4X 6-Pole	700-PH600⊗	700-PH601⊗

⊗ AC Voltage Suffix 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-PH100⊗ becomes Cat. No. 700-PH100A48. For other coil voltages, consult your local Allen-Bradley Sales Office.

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	_	_	В3	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.

DC-Operated Relays

	Con	tacts	Contact Arrangement	Open Type – Without Enclosure	Type 1 General Purpose Enclosure
	N.O.	N.C.	and Markings	Cat. No. 6	Cat. No. @
	1	_	K1 A1X❷ A2X A3X A4X	700DC-PH100⊗	700DC-PH101⊗
	2	_	K2 A3Y A4Y	700DC-PH200⊗	700DC-PH201⊗
AD O mater	3	_	B1X ❸ B2X B3X B4X 4-Pole	700DC-PH300⊗	700DC-PH301⊗
	4	_	Relay B2Y B3Y B4Y	700DC-PH400⊗	700DC-PH401⊗
Cat. No. 700DC-PH200	6	_	C1X C2X C3X C4X 6-Pole	700DC-PH600⊗	-

⊗ DC Voltage Suffix 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-PH200⊗ becomes Cat. No. 700DC-PH200Z12. For other coil voltages, consult your local Allen-Bradley Sales Office.

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

- 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.
- 2 Location of contacts in 1-pole relays.
- Location of contacts in 3-pole relays: 2-pole relay plus the contact indicated.
- Location of contacts in 6-pole relays: 4-pole relay plus the 2 contacts indicated.

All Cat. Nos. are factory stocked.

[†] Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

Time Delay Relays — Open Type With Pneumatic Time-Delay Attachment

- Timing Options: (see pages 237 and 253)
 - Pneumatic Timers Factory- or Field-Installed
 - Solid-State Timers Field-Installed
- Factory-Assembled Bulletin 700-PT and PKT Timing Relays
 - 0, 2, or 4 instantaneous contacts
 - · 2 timed contacts both ON Delay or both OFF Delay
 - · Convertible from ON Delay to OFF Delay and vice versa
 - Standard contact cartridges rated NEMA A600 (AC) and P600 (DC)
 - Master contact cartridges rated 2X NEMA A600 (AC) and 2X P600 (DC)

		AC-Operated Relays		DC-Operated Relays				
Con	tacts	Contact Arrangement	Cat. No. @	Contact Arrangement	Cat. No. @			
N.O.	N.C.	and Markings	Cat. No. 0	and Markings	Cat. No. 9			
0	_	Relay with only time delay contacts	700-PPT⊗	Relay with only time delay contacts	700DC-PPT⊗			
2	_	K1 A1X	700-PT200⊗	K1 A1X	700DC-PT200⊗			
4	_	K2 A1Y A2Y A3Y A4Y D1Y D2Y	700-PT400⊗	K2 A1Y A2Y A3Y A4Y D1Y D2Y	700DC-PT400⊗			

Bulletin 700-PK Master Contact Cartridges

		AC-Operated Relays		DC-Operated Relays		
Con	tacts	Contact Arrangement	Open Type Without Enclosure	Contact Arrangement	Open Type Without Enclosure	
N.O.	N.C.		Cat. No. @		Cat. No. @	
0	_	Relay with only time delay contacts	700-PPKT⊗	Relay with only time delay contacts	700DC-PPKT⊗	
2	_	K1 A1X [®] A2X A3X A4X [®] D1X D2X [®]	700-PKT200⊗	K1 A1X [®] A2X A3X A4X [®] D1X D2X ®	700DC-PKT200⊗	
4	_	K2 A1Y A2Y A3Y A4Y D1Y D2Y	700-PKT400⊗	K2 A1Y A2Y A3Y A4Y D1Y D2Y	700DC-PKT400⊗	

⊗ AC Voltage Suffix 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-PKT200 \otimes becomes Cat. No. 700-PKT200A48. For other coil voltages, consult your local Allen-Bradley Sales Office.

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	_	_	В3	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.

⊗ DC Voltage Suffix 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-PKT200⊗ becomes Cat. No. 700DC-PKT200Z12. For other coil voltages, consult your local Allen-Bradley Sales Office.

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

- 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: N.O. contact closes before N.C. contact opens. To order a relay containing one pair: Use Cat. No. 700-PTZ110. To order a relay containing two pairs: Use Cat. No. 700-PTZ2220. AC Ratings: NEMA A600, DC Ratings: P150.
- **1** Location of contacts in 2-pole relays.
- Timer has 1 N.O. and 1 N.C. convertible cartridge in addition to the instantaneous cartridges on the relay. Timer is supplied as On-Delay. Convertible to Off-Delay in the field.
- The timer has 1 N.O. and 1 N.C convertible master cartridge in addition to the instantaneous master cartridges on the relay. Timer is supplied as On-Delay. It is convertible to Off-Delay in the field.

3 All Cat. Nos. are factory stocked.

[†] Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

Bulletin 700-P, -PK, -PH Industrial Relays

Product Selection, Continued

Mechanical Latching Relays

- Mechanical latch options factory- or field-installed
- Converts all poles to latching
- AC latch coil max. 6 poles latching
- DC latch coil max. 5 poles latching
- Latching relays have 2 coils latch coil is the relay coil, reset coil is on the latch attachment
- Latch/reset coils can have 2 AC coils, 2 DC coils, or 1 AC and 1 DC coil (e.g., latch with AC power, unlatch with DC battery)

		AC-Operated Relays		DC-Operated Re	lays
Con	tacts	Contact Arrangement and Markings	Open Type with Mechanical Latch Attachment (Read ATTENTION Below)	Contact Arrangement and Markings	Open Type with Mechanical Latch Attachment (Read ATTENTION Below)
N.O.	N.C.		Cat. No. @		Cat. No. @
0	_		_	_	_
2	_	K1 A1X A2X A3X A4X D1X D2X K3	700-PL200⊗	K1 A1X A2X A3X A4X D1X D2X	700DC-PL200⊗
4	_	K2 A1Y A2Y A3Y A4Y D1Y D2Y K4	700-PL400⊗	K2 A1Y A2Y A3Y A4Y D1Y D2Y K4	700DC-PL400⊗
6	_	6-pole Relay	700-PL600⊗	5-pole Relay	700DC-PL500⊗

⊗ AC Voltage Suffix 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-PT200 \otimes becomes Cat. No. 700-PT200A48. For other coil voltages, consult your local Allen-Bradley Sales Office. 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	_	_	В3	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.

⊗ DC Voltage Suffix 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-PT200 \otimes becomes Cat. No. 700DC-PT200Z12. For other coil voltages, consult your local Allen-Bradley Sales Office.

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

- 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: P150.
- Location of contacts in 2-pole relays.
- Location of contacts in 4-pole relays: 2-pole relay plus the 2 contacts indicated.
- 6 All Cat. Nos. are factory stocked.

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.

[†] Optimized for 110...115V, 50 Hz. Operates satisfactorily at 120V, 60 Hz.

700S-P Safety Control Relays

C	ontacts	Relays with 120V AC Coils						
N.O.	N.C.	Cat. No.						
3	1	700S-P310A1						
2	2	700S-P220A1						
6	2	700S-P620A1						
5	3	700S-P530A1						

Co	ntacts	Relays with 24V DC Coils						
N.O.	N.C.	Cat. No.						
3	1	700S-DCP310Z24						
2	2	700S-DCP220Z24						
6	2	700S-DCP620Z24						
5	3	700S-DCP530Z24						

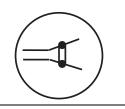
Accessories

Description	Continuous Carrying Current (A)	Product Label	Pkg. Qty.	Cat. No. 🤡
10 A cartridge meeting IEC 947-5 Note: Use this cartridge when full compliance to IEC 947-5 is required. 700-P relays equipped with CPS cartridges fully meet the IEC 947-5 spec for mechanically linked contacts. ② ②	10	700-CPS 0 0 0 0 0 0 0 0 0	1	700-CPS

- IEC 947-5 Annex L has 2 requirements for a relay to meet for mechanically linked contacts:
 1.) If a N.O. contact welds, all the N.C. contacts will remain open and meet a 2500V impulse test.
 2.) If a N.C. contact welds, all the N.O. contacts will remain open and meet a 2500V impulse test.
 700-P relays equipped with the 700-CPS cartridge meet these requirements including the 2500V impulse test.
- The relays shown on this page are shipped from the factory with the 700-CPS cartridge installed.

 Relays with factory-installed 700-CPS cartridges have the international symbol (shown below) for mechanically linked contacts prominently displayed on the face plate.
- These cartridges must not be used in timers and latches.
- 4 All Cat. Nos. are factory stocked.

International Symbol for Mechanically Linked Contacts



Adder Decks

			Co	ntacts		
	Description	N.O.	N.C.	Continuous Carrying Current (A)	Arrangement	Cat. No. 2
		2	1	10	B1X B4X	700-PB20
8	Second Deck (2-pole)	2		20	B1Y B4Y	700-PKB20
Second Deck	Second Deck (4-pole)	4		10	B1X B2X B3X B4X	700-PB40
Cat. No. 700-PB40		4		20	B1Y B2Y B3Y B4Y	700-PKB40
And all		2	1	10	C1X C4X	700-PC20
	Third Deck (2-pole)	2	_	20	C1Y C4Y	700-PKC20
Third Deck Cat. No. 700-PC40	Third Deck (4-pole)	4 —		10	C1X C2X C3X C4X	700-PC40
Cat. No. 700-F C40		4	_	20	C1Y C2Y C3Y C4Y	700-PKC40

Contact Cartridges (Convertible from N.O. to N.C. and N.C. to N.O.)

	Description	1	Continuous Carrying Current (A)	Arrangement	Pkg. Qty.	Cat. No. @
Standard Contact Cartridge Cat. No. 700-CP1, -CP11Z	Standard Contact Cartridge AC Rating NEMA A600 DC Rating NEMA P600		10	OR	1	700-CP1
	Overlap Contact Cartridges Overlapping Used in pairs. N.O. contact	AC Rating NEMA A600	10		2	700-CP11Z
	closes before N.C. contact opens on pick-up and vice versa on drop-out.	DC Rating NEMA P150 125V DC, 138 VA Make and Break	5			700-CP112
Master Contact Cartridge Cat. No. 700-CPM	Master Contact Cartridge AC Rating Twice NEMA A600 DC Rating Twice NEMA P600		20	OR	1	700-CPM
Logic Reed Cartridge Cat. No. 700-CPR	Logic Reed Cartridge for Low Energy Circuits •	Maximum 150V AC	500 mA	OR	1	700-CPR
	150V AC 500 mA 25 VA Max. 30V DC 200 mA 6 W Max.	Maximum 30V DC	200 mA		'	700-01 K

- Not Direct Drive.
- ② All Cat. Nos. are factory stocked.

Pneumatic Time-Delay Unit − 1 N.O. and 1 N.C. Convertible Contact Cartridge ●

• •	Desc	cription		Continuous Carrying	Arrangement	Timing Range	Open Type Without Enclosure
	Mode	Cont	acts	Current (A)			Cat. No. ⊚
	Mode	N.O.	N.C.				Oat. No. 6
	On-Delay/	1	1 -	10	D1X D2X	0.1 60.5	700-PT
Pneumatic Time-Delay	Off-Delay	1		20	D1Y D2Y	0.160 s.	700-PKT

Bulletin 700-PS and -PSR Solid-State Timers



Description	Continuous Carrying Current (A)	Arrangement	Timing Range Ø	Cat. No. ଡ
		External Initiating	0.12 s	700-PSAA1
Self-Contained Potentiometer		Contact	0.48 s	700-PSBA1
On-Delay			1.530 s	700-PSCA1
	5	C1 S1 S2	6120 s	700-PSDA1
	5	Output Contact (C1, C2) ADJ. POT.	0.12 s	700-PSPA1
Off-Delay		C2 L1 L2	0.48 s	700-PSRA1
Oll-Delay			1.530 s	700-PSTA1
		110/120V, 50/60 Hz Power	6120 s	700-PSUA1
			0.12 s	700-PSRAA1
External Potentiometer		C1 S1 S2	0.48 s	700-PSRBA1
On-Delay		Output R1 R2 Contact (C1, C2)	1.530 s	700-PSRCA1
	5	C2 L1 L2	6120 s	700-PSRDA1
			0.12 s	700-PSRPA1
Off-Delay			0.48 s	700-PSRRA1
Оп-реіау		Remote Pot. Max. Shielded Cable Length 50 FT	1.530 s	700-PSRTA1
		UL Style #2517 or Equivalent	6120 s	700-PSRUA1

- Mounts on 4-pole Bulletin 700-P or -PK relay or 2-pole Bulletin 700-PH relay.
- **②** Maximum time may be 50% greater and the minimum time may be 50% less than the value specified.
- All Cat. Nos. are factory stocked.

Remote Potentiometers for Cat. No. 700-PSR...

Timing Range (s)	Resistance (MΩ)	Cat. No.
0.12	0.75	700-N35
0.48	0.75	700-N35
1.530	2.0	700-N36
6120	3.5	700-N37

Mechanical Latch Units



Description	,	Arrangeme	ent	Continuous Carrying	Open Type Without Enclosure
				Current (A)	Cat. No. 0
	D1X	D2X	K3	Without	700-PLL⊗
AC-Operated Latch Units				10	700-PLL11⊗
	D1Y	D2Y	 K4	20	700-PKLL11⊗
	D1X	Reset Input D2X	К3	Without	700DC-PLL⊗
DC-Operated Latch Units				10	700DC-PLL10⊗
	D1Y	D2Y	K4	20	700DC-PKLL10⊗

AC Voltage Suffix 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-PLL8 becomes Cat. No. 700-PLLA1. For other coil voltages, consult your local Allen-Bradley Sales Office.

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	_	_	В3	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.

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



Mounting Strip
Cat. No. 700-MP4



Cat. No. 700-N31

Description	Relays Per Strip	Pkg Qty.	Cat. No. ⊕						
Universal Mounting Strips – Accepts Bulletin 700-P, -PH,	4	5	700-MP4						
-PK, -R, -RM, and -N control relays, as well as Bulletin 700-RTC timing relays. These strips are easily cut to the required length and bolted, riveted, or spot-welded in	8	5	700-MP8						
place. Relays are installed adjacent to one another on the mounting strip with the captive mounting screws provided.	12	5	700-MP12						
5 strips/package.	16	5	700-MP16						
10- and 12-pole DC relays or 5- and 6-pole DC Bulletin 700-PH	, ,								
Type 4/4X Enclosure – For 2- and 4-pole Bulletin 700-P, -Pl relays and 2-pole Bulletin 700-PH relays.	4X Enclosure – For 2- and 4-pole Bulletin 700-P, -PH, -N and -R nd 2-pole Bulletin 700-PH relays.								
Type 7 & 9 Enclosure – For 2- and 4-pole Bulletin 700-P, -P relays and 2-pole Bulletin 700-PH relays. 1 conduit hub; top a		1	700-N33						

• All Cat. Nos. are factory stocked.

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

@ 0	Description		Pkg. Qty.	Cat. No. 0
Surge Suppressor Cat. No. 700-N5	Surge Suppressors (RC Circuit) – Surge suppressors reduce the high transient voltages generated when the coil circuit is opened. These suppressors can be used with Bulletin 700-P, -PH, -PK and -N relays, and other	Mounting behind relay	1	700-N5
Surge Suppressor Cat. No. 700-N24	electromechanical devices. They contain a resistor and capacitor. Maximum ratings: 150V, AC or DC, 35 VA. Cat. No. 700-N5 requires 1 in. additional depth of enclosure.	Mounting on coil terminal	1	700-N24
The State of the S	MOV Surge Suppressors	2448V AC/DC 15 J	1	199-FSMA9
88	Used on Bulletin 700-P, -PH, -PK, -N, -F, -R (DC Only) and -RM (DC Only) relays. Mounting on coil terminal.	50120V AC/DC 15 J	1	199-FSMA10
	$ 1J = 1 V \times 1 A \times 1 s$	130250V AC/DC 23 J	1	199-FSMA11
Surge Suppressor Cat. No. 199-FSMA1	Diode Surge Suppressor – for 6300V DC voltage coils. U-PH, -PK, -N, -F, and -R relays.	Jsed on Bulletin 700-P,	1	199-FSMZ-1
35A Jumper Kit Cat. No. 700-CPH	35 A Jumper Kit – CSA Approved, UL Listed This 35 A Jumper Kit can be used with any Bulletin 700-P ar Time-Delay relay or Latch Unit equipped with 20 A Master require any additional panel space. Jumper Kit terminals are designed for one #8 AWG wire or When connecting the two 20 A Master Cartridges in paralle they be the same configuration (Normally Open or Normal Jumpers can be added to any contact cartridge location on center poles because of the wide spacing. An adhesive labe kit listing the contact ratings.	1	700-CPH	
Jumper Jumper	Jumpers (Not applicable for Bulletin 700-PH or -PK relays) – For connection between a middle pole and an outer pole on the left or right side of the relay.	Jumper – For outer poles	50	700-N3
Cat. No. 700-N3 Cat. No. 700-N4	Jumpers (Not applicable for Bulletin 700-PH or -PK relays) – For connection between two middle poles.	Jumper – For middle poles	30	700-N4
	Check Out Tool – Mechanically holds the Bulletin 700-P, operated position for troubleshooting purposes.	PH or -PK relay in the		700-N23
Check Out Tool Cat. No. 700-N23	Adapter Plate – Simplified relay conversion. Allows you to mounting holes when you replace a Bulletin 700-B, -BR, -B Bulletin 700-P, -PH, or -PK relay.		1	700-N34
	Protective Cover – For 700-PT Timing Adjustment Knob. Howith time setting.	5	700-N38	

• All Cat. Nos. are factory stocked.

Тур	е		70	00-P,	PLL,	PT			70	0-PK, P	KLL, P	KT				700	-PH		
									Elec	trical									
Contact Rating	Continuous				600V 600V					20 A @ 0 10 A @ 0						35 A @ 0 20 A @ 0			
Ratings	AC			NEM	A A60)				2 x NEM	IA A600			2 x NEMA A600					
Make/Break	DC			NEM	A P60)				2 x NEM	IA P600			2 x NEMA P600					
Additional Contact Ratings for AC single-phase loads			_					2 Hp @ 240V AC - N.O./N.C. 1 Hp @ 120V AC - N.O./N.C. 20 A Resistive Heating to 600V 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/E	Break	C	Cartrid	ge Ca	t. No.	700-CF	1	Cartridge Cat. No. 700-CPM							Cartr	idge Cat	. No. 700	-CPH	
	Contacts										Volts	DC							
	in Series	24	64	125	250	500	600	24	64	125	250	500	600	24 480W	64 480W	125 275W	250 138W	500 135W	600 120W
DC Switching	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
	AC			85	.110%					85	10%					85	110%		
Coil Voltage	DC			80	.110%	110%			80110%						80110%				
Range	Battery Charging			85	115%			85115%					85115%						
			50 Hz	<u> </u>	60 Hz		50 Hz			60 Hz			50 Hz			60 Hz			
Coil	A Inrush		132 V	A		138 VA			132 VA			138 VA			132 VA			138 VA	
Consumption C P-PH-PK	C Sealed		19.3 V	Ά		19 VA			19.3 VA		19 VA			19.3 VA 19 VA					
	DInrush			12	7 VA					12.7	VA					12.7	7 VA		
	C Sealed	12.7 VA					12.7 VA						12.7 VA						
PLL - PKLL	Inrush		15 VA	١.		15.6 V	4		5 VA			15.6 VA	١	15 VA 15.6 V/				15.6 VA	
AC Latch Unit	Sealed		5.4 VA	4		5.5 VA			5.4 VA			5.5 VA			5.4 VA 5.5 VA				
PLL - PKLL	Unlatch			35	5 VA					35	VA			35 VA					
DL Latch Unit	Intermitten t			3	5 W					35	W			_					
Reset Time	PT – PKT			75	5 ms					75	ms					_	_		
Minimum Pulse	PLL-PKLL			75	5 ms					75	ms					_	_		
								•	Mech	anical									
Operating Time	Pickup				020 050					AC - 10 DC - 30				AC – 1020 ms DC – 3050 ms					
Operating Time	Dropout				020 033					AC - 10 DC - 20						AC - 10 DC - 20			
Mechanical Life	;									10 ı	nillion o	peration	s						
									Const	ruction									
Contact Arrang	ement					vertible Maxim				12 Poles N.C. (8						6 Poles, r N.C. (4			
Contact Materia	al			Nicke	el Silve	r			Silver Cadmium Oxide					Silver Cadmium Oxide					
Mounting		Horiz	Panel or Strip Mount Horizontal Mounting Recommended				F	Panel or Strip Mount Horizontal Mounting Recommended					Panel or Strip Mount Horizontal Mounting Recommended						
									Enviro	nmenta	I								
T	Operating •		-20	.+65°(C (–4	.149°F)		-20	+65°C	(–4…14	9°F)		-20+65°C (-4149°F)					
Temperature	Storage		-4 0	+65°C	(–40.	149°F	·)		-40.	+65°C	-4 01	49°F)			-40.	+65°C	(–40…14	19°F)	

[•] Temperature inside the panel.

Bulletin 700-P-PK

2-...12-pole,

Operating Coils

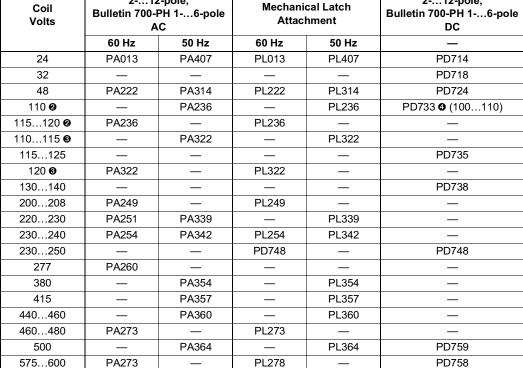
Bulletin 700 Bulletin 700-P-PH-PK Relays — Bulletin 700-PLL-PKLL Mechanical Latch Attachments 0

Bulletin 700-P, -PK

2-...12-pole,



Bulletin 700-P Operating Coil



Bulletin 700-PLL-PKLL AC



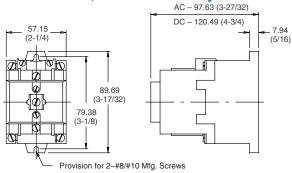
Magnet Assembly 5

- Coils for AC relays cannot be used in DC relays and vice versa.
- @ This coil is optimized for 115...120V, 60 Hz applications and will operate satisfactorily at 110V, 50 Hz.
- This coil is optimized for 110...115V, 50 Hz applications and will operate satisfactorily at 120V, 60 Hz.

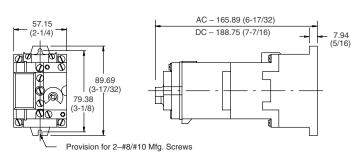
• This coil is designed and marked for use at 100...110V DC.

Dimensions in millimeters (inches). Dimensions are not intended to be used for manufacturing purposes.

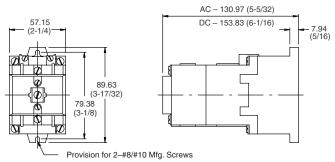
Bulletin 700-P, -PH and -PK Relays



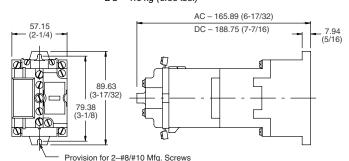
2- and 4-pole Bulletin 700-P or -PK Relay — 2-pole Bulletin 700-PH Relay Approximate Shipping Weight AC – 0.68 kg (1.5 lbs.), DC – 1.34 kg (2.95 lbs.)



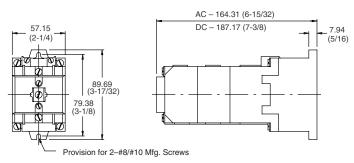
2- and 4-pole Bulletin 700-P or -PK Relay or 2-pole Bulletin 700-PH Relay with Pneumatic Time Delay Attachment Approximate Shipping Weight AC – 0.85 kg (1.88 lbs.), DC – 1.5 kg (3.33 lbs.)



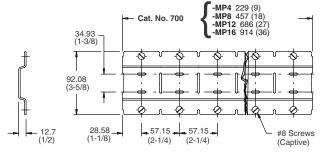
6- and 8-pole Bulletin 700-P or -PK Relay — 4-pole Bulletin 700-PH Relay Approximate Shipping Weight AC – 0.79 kg (1.75 lbs.), DC – 1.45 kg (3.20 lbs.)



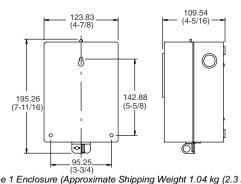
2- and 4-pole Bulletin 700-P or -PK Relay or 2-pole Bulletin 700-PH Relay with Mechanical Latch Attachment
Approximate Shipping Weight AC – 0.97 kg (2.13 lbs.),
DC – 1.62 kg (3.58 lbs.)



10- and 12-pole Bulletin 700-PPK Relay — 6-pole Bulletin 700-PH Relay Approximate Shipping Weight AC – 1.02 kg (2.25 lbs.), DC – 1.68 kg (3.7 lbs.)

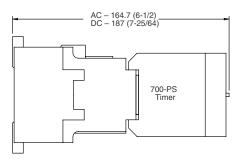


Universal Mounting Strip for Bulletin 700-P, -PH, -PK, -N, -NM, -R, -RM, -RT, -RTA Relays



Type 1 Enclosure (Approximate Shipping Weight 1.04 kg (2.3 lb.) for Bulletin 700-P or -PK Relay (2...4-pole);
Bulletin 700-PH Relay (1...2-pole only);
Cat. No. 700-N31 NEMA Type 1 Enclosure for other Bulletin 700-P, -PH, -PK, -RTC Relay has same dimensions except the depth is 178 mm (7").
Approximate Shipping Weight 1.26 kg (2.8 lb.)

Secure the mounting strip with 2 screws at each end relay position. Use a minimum of one screw at the 3rd, 5th, 7th, etc., relay positions. Alternate between upper and lower horizontal slots.



Bulletin 700-PS Timer Mounted on a 4-pole Bulletin 700 Bulletin 700-P or -PK Relay or 2-pole Bulletin 700-PH Relay. Approximate Shipping Weight AC – 0.68 kg (1.5 lbs.) without 700-PS, eDC – 1.34 kg (2.9 lbs.) without 700-PS