

Bulletin 700-HF



Miniature Square Base Ice-Cube Relay

Features

These small relays—used in industrial applications—are available from Rockwell Automation in two- and four-pole versions. Two styles of sockets are available, as well.

Clear cover

Allows visual inspection of terminals.

Plug-in terminals

Secure connections, yet easy to install or remove relays.

What's New

Color coding

Tabs and coil covers indicate coil voltage type: orange for AC and blue for DC.

Push-to-test with manual override

Manual override feature enables changing contact state, even when coils are not energized. This upgrade changes all catalog numbers that had the (-1) option to the new (-3) option.

Increased contact ratings

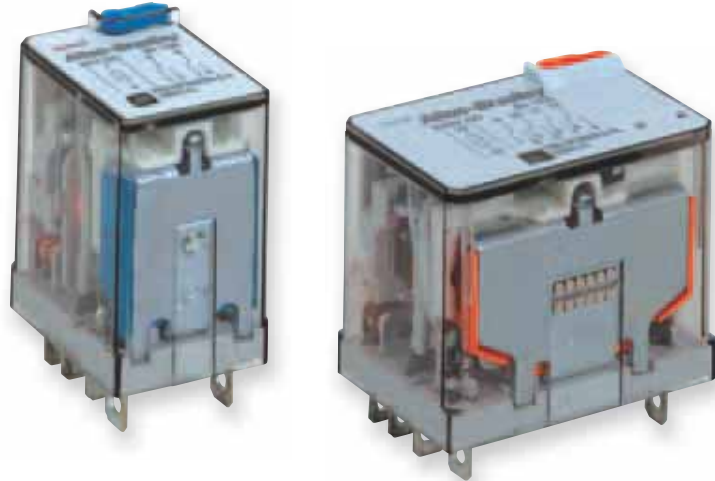
Relays are now rated for 12 amps.

Visual

- Wiring diagram on top faceplate
- Mechanical indicator

Sockets

Available in two styles for each contact configuration, one that is compatible with Allen-Bradley general purpose relay accessories such as surge suppressors and timing units and the second with traditional open style terminals.



Product Selection

| Description | Wiring Diagrams | | Coil Voltage | Cat. No. ☒ ☎ ☎ |
|--|------------------------|------------------------|--------------|-------------------|
| | U.S./Canada | International | | |
| DPDT 2-pole 2 Form C AgCdO Contacts | | | 6V AC | 700-HF32A06 |
| | | | 12V AC | 700-HF32A12 |
| | | | 24V AC | 700-HF32A24 |
| | | | 120V AC | 700-HF32A1 |
| | | | 240V AC | 700-HF32A2 |
| | | | 6V DC | 700-HF32Z06 |
| | | | 12V DC | 700-HF32Z12 |
| | | | 24V DC | 700-HF32Z24 |
| 48V DC | 700-HF32Z48 | | | |
| Socket | 700-HN116 700-HN262 | 700-HN116 700-HN262 | 110V DC | 700-HF32Z1 |
| 4PDT 4-pole 4 Form C AgCdO Contact | | | 6V AC | 700-HF34A06 |
| | | | 12V AC | 700-HF34A12 |
| | | | 24V AC | 700-HF34A24 |
| | | | 120V AC | 700-HF34A1 |
| | | | 240V AC | 700-HF34A2 |
| | | | 6V DC | 700-HF34Z06 |
| | | | 12V DC | 700-HF34Z12 |
| | | | 24V DC | 700-HF34Z24 |
| 48V DC | 700-HF34Z48 | | | |
| Socket | 700-HN139 700-HN264 | 700-HN139 700-HN264 | 110V DC | 700-HF34Z1 |

Note: Three pole-option is no longer available.

☒ LED Option: Add suffix (-4) to the selected bulletin 700-HF relay Cat. No. except for the 240V AC units, add (-4L).

☎ Push-to-Test Manual Override and LED Option: Add suffix (-3-4) to the selected bulletin 700-HF Cat. No. except for the 240V AC units, add (-3-4L).

☎ Push-to-Test and Manual Override Option: Add suffix (-3) to the selected bulletin 700-HF relay.



Product Specifications

| Electrical Ratings | | 700-HF 2 Pole | | 700-HF 4 Pole | |
|--|----------------|---|--|---------------------------|--|
| Contacts | Inductive V AC | 230V AC | AC 15 @ 700 VA / AC-1 @ 3000 VA / 1 Hp @ 240V AC | | |
| | | 120V AC | 1/2 Hp @ 120V AC | | |
| | VDC | DC-1 | 12 A @ 30V DC / 0.5 A @ 110V DC / 0.25 A @ 220V DC | | |
| | Resistive | AC | 12 A @ 250 V AC (per pole) | | |
| DC | | 12 A @ 30 V DC (per pole) | | | |
| Operating Range | | AC | 80...110% Nominal Voltage | | |
| | | DC | 80...110% Nominal Voltage | 85...110% Nominal Voltage | |
| Rated Power | | AC (50 Hz) | 1.5 VA | 2 VA | |
| | | DC | 1 W | 1.3 W | |
| Holding Voltage | | AC | 80% Nominal Voltage | | |
| | | DC | 60% Nominal Voltage | | |
| Must Drop Out Voltage | | AC | 20% Nominal Voltage | | |
| | | DC | 10% Nominal Voltage | | |
| Insulation Voltage | | | 250V AC | | |
| Design Specification/Test Requirements | | | | | |
| Dielectric Withstand Voltage | | Pole-to-Pole | 2500V AC | | |
| | | Contact to Pole | 2500V AC | | |
| Mechanical | | | | | |
| Degree of Protection | | Open Type (Sockets) | | | |
| Mechanical Life Operations | | 20 x 10 ⁶ | | | |
| Switching Frequency Operations | | 3600/hr | | | |
| Operating Time at Nominal Voltage at 20 °C | | Pickup | 8 ms | 10 ms | |
| | | Dropout | 3 ms | 4 ms | |
| Maximum Operating Rate | | 4 Ops/s | | | |
| Vibration & Shock | | 15 G | | | |
| Environmental | | | | | |
| Temperature | | Operating | -40...+70 °C (-40...+268 °F) | | |
| | | Storage | -50...+80 °C (-89...+176 °F) | | |
| Construction | | | | | |
| Insulating Material | | Molded High-Dielectric Material | | | |
| Enclosure | | Transparent Dust Cover | | | |
| Contact Material | | Silver Cad. Oxide | | | |
| Terminal Markings on Socket | | In accordance with EN 500005 | | | |
| Sockets | | 8-Blade Socket (DPDT) Cat. No. 700-HN116 & 700-HN262 14-Blade Socket (4PDT) Cat. No. 700-HN139 & 700-HN264 | | | |
| Certifications | | CSA Certified (File No. 229473), UL Recognized (File No. E3125, Guide NLDX2/NLDX8), CE Marked, UL Listed when used with sockets shown above, (File No. E3125, Guide NLDX/NLDX 7), LR Certified, RINA Certified, IMQ Certified | | | |
| Standards | | UL 508, CSA 22.2 No. 14, EN-61810-1, EN 60998-1, EN 60998-2-1 | | | |

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