Danaher — Timers and Controllers

HZ172A607



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The **HZ172A607** is an electromechanical preset counter manufactured by Danaher and supplied under the Timers and Controllers series. It integrates a step-driven register with cam-operated contacts to manage sequential operations such as indexing, cutting, or fill cycles in automated machinery. Each electrical pulse advances the internal wheel by one count, and when the preset value is reached, the device changes its output state to start or stop downstream equipment.

Power is taken from a 120 VAC, 50/60 Hz line. When the clutch first engages, it draws **16 VA** and then settles to a holding demand of **10.5 VA**. The armature seats within **50 ms**, which establishes the minimum width of an acceptable command pulse. The programmable capacity ranges from 1 to **40 counts**, and a dial-lock mechanism secures the setting against accidental movement. The register can follow shafts or sensors that issue up to **500 counts/min** without losing position. A delayed differential cam releases one count early, giving a lead time for pneumatic or mechanical actuators, while the input circuit requires at least 40 ms of on-time for reliable stepping.

The output section provides two SPDT instantaneous contacts and two SPDT delayed contacts, each rated at **10 A at 120 VAC**. System resets are handled by a solenoid that clears the register in **500 ms** at the maximum count, preparing the counter for the next production cycle. After every step, the coil must remain de-energized for **80 ms** so the escapement can return to its home position. The internal step motor imposes a transient load of **26 VA** during each inrush, which must be considered when sizing the power source. The device has a minimum preset of one count and a differential cam that releases one count before the selected value. Its four independent contacts

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support separate switching functions for connected equipment.

Specifications

Clutch Coil Hold:	10.5 VA	**Clutch Coil Inrush:**	16 VA	**Clutch Pull-in:**	50 ms
Count Maximum:	40	**Count Minimum:**	1	**Count Speed:**	500 counts/min max
Delayed Differential:	1 count early	**Feature:**	Dial Lock	**Output Contacts:**	2 SPDT instant + 2 SPDT delayed
Output Rating:	10 A @ 120 VAC	**Reset Time:**	500 ms at max setting	**Step Input Off Time:**	80 ms
Step Input On Time:	40 ms	**Step Motor Burden:**	26 VA inrush	**Supply:**	120 VAC, 50/60 Hz
Last Verified:	11/15/2026 1:25 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

Shipping Options

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