Danaher — Timers and Controllers

HG109A6



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The **HG109A6** timer is manufactured by Danaher and belongs to the Timers and Controllers series. This plug-in module integrates into panel sockets to deliver repeatable on-and-off cycles that coordinate the actuation of motors, lights, or other machines in automated processes. By driving its internal contacts at user-selected intervals, it provides a simple method for interlocking devices or pacing batch operations without full PLC logic.

Inside the housing, two independent circuits are switched by **two SPDT contact sets**, so each timer output channel can deliver an isolated control signal. When energized, the contacts are rated for **10 A at 120 VAC**, allowing direct switching of moderate resistive or inductive loads without an intermediate relay. The device draws only **2.5 VA** from the line, minimizing heat within compact enclosures. Separate ON and OFF dials establish the timing scales, and the operating sequence follows an on-off repeat cycle that resets automatically. Once set, the interval length is maintained within **0.5% of the dial setting** to support process consistency, and overlap between successive actions is limited to 1.5% of the total cycle to prevent contact chatter. The synchronous drive motor runs in phase with the **60 Hz** mains frequency, eliminating long-term drift associated with internal oscillators.

The timing mechanism is rated for **10,000,000 operations** during long-term service. The contact set can sustain electrical duty for **250,000 operations** before refurbishment is expected. Motion is driven by a **synchronous unidirectional motor** that locks timing accuracy to the utility grid while preventing reverse backlash. Nominal control power of **120 VAC** energizes the unit, making it compatible with standard branch circuits in North American machinery. The independent timing dials allow the energized and de-energized portions of each repeating cycle to

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be adjusted for the connected equipment. Its plug-in format also allows the timer to connect through a compatible panel socket without permanent internal wiring changes.

Specifications

Contact Form:	2 SPDT	**Dwell/overlap Limit:**	1.5% of total cycle	**Electrical Life:**	250,000 operations
Housing Type:	Plug-In Case	**Mechanical Life:**	10,000,000 operations	**Motor Type:**	Synchronous Unidirectional
Operating Mode:	On-Off Repeat Cycle	**Output Circuits:**	2	**Output Rating:**	10 A at 120 VAC
Power Consumption:	2.5 VA	**Repeat Accuracy:**	0.5% of dial	**Supply Frequency:**	60 Hz
Supply Voltage:	120 VAC	**Timing Scales:**	Separate ON and OFF	**Last Verified:**	11/14/2026 6:05 AM

Contact Us

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