Danaher — Timers and Controllers

HG102A6



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The **HG102A6** is an industrial time-cycle controller produced by Danaher for the Timers and Controllers series. Housed in a plug-in case, the unit uses a unidirectional synchronous motor to advance its cam stack and govern repetitive machine functions such as indexing, feeding, or dwell timing in packaging and assembly equipment. By translating the fixed mains frequency into mechanically referenced rotation, the timer delivers consistent sequencing without external electronics. Its plug-in design also allows straightforward installation in socketed control panels.

Operating power is drawn from **120 VAC** lines at **60 Hz**, so the unit connects directly to standard control transformers. Switching flexibility comes from **two SPDT contacts** that isolate the load circuit from the timing motor. Each contact is rated for **10 A at 120 VAC**, allowing direct control of solenoids, contactor coils, or fractional-horsepower motors. After every reset, the timing cycle returns within **0.5% of the dial setting**, supporting processes that require consistent timing periods. Electrical endurance reaches 250,000 operations at the stated load, aided by silver-alloy contact tips that resist arc erosion. The isolated contact arrangement allows the timing motor and connected loads to operate through separate electrical paths.

The dial can be adjusted from a brief pulse up to a maximum cycle of **150 seconds**. The cam design limits overlap between successive contact transfers to **1.5% of the total cycle**, preventing unintended simultaneous energization of multiple circuits. Mechanical components are rated for **10,000,000 operations**, allowing the motor and gearing to support extended service intervals. With a power burden of **2.5 VA**, the timer places minimal

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demand on auxiliary supplies and permits several units to operate from the same control transformer when adequate capacity is available. The synchronous motor rotates in one direction to reduce backlash in the timing mechanism. Its mechanically referenced operation maintains a stable relationship between the supply frequency, cam position, and output switching sequence.

Specifications

Contact Rating:	10 A at 120 VAC	**Housing:**	Plug-In Case	**Maximum Cycle Time:**	150 Sec
Mechanical Life:	10,000,000 operations	**Motor Direction:**	Unidirectional	**Motor Type:**	Synchronous
Output Contacts:	2 x SPDT	**Overlap/dwell Limit:**	1.5% of total cycle	**Power Burden:**	2.5 VA
Repeat Accuracy:	0.5% of dial	**Supply Frequency:**	60 Hz	**Supply Voltage:**	120 VAC
Switch Life At Rated Load:	250,000 operations	**Last Verified:**	11/14/2026 5:23 PM		

Contact Us

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