Danaher — Timers and Controllers

HP77A6



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The **HP77A6** is an electromechanical timer produced by Danaher in the Timers and Controllers series. It generates a single timed pulse for sequencing heaters, conveyors, or process valves in industrial panels. Fifteen screw terminals accept control power, load wiring, and interlocks, allowing the device to be integrated without auxiliary plug-in bases. A cam-driven dial establishes the required delay, and the internal clutch disengages after count-out so the contact block can reopen before the next cycle.

This timer operates from a control supply of **120 VAC** at a mains frequency of **60 Hz**; the coil tolerates line variation between **+10%/-15%** without drifting outside its timing band. The front dial can be set between **4.5 min** and **150 min**, giving a broad window for batch or soak operations. Dial calibration repeatability is held to **±2%**, so successive cycles remain within tight process limits even with ambient vibration. Inside the housing, a synchronous motor rotates the gear train, and a ratcheting clutch advances only during powered intervals, preventing overruns when supply voltage is removed or restored.

The load circuit is switched by a SPDT contact rated at **10 A (120 VAC)**, providing ample margin for solenoids and small induction motors. When the dial reaches zero, the device resets in **1 s**, enabling rapid rearming in high-throughput machinery. A pulse width equal to 1% of the selected range is delivered, satisfying applications that need a brief trigger rather than sustained closure. Thermal endurance is confirmed for environments up to **140 °F (+60 °C)**, while operation remains reliable down to 0 °F (-18 °C). The motor burden is 2.5 VA, and the clutch burden is 10.5 VA, figures that aid power supply sizing. There is no automatic reset after power loss, so upstream

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logic must issue a manual start when mains power returns.

Specifications

Clutch Burden:	10.5 VA	**Input Voltage:**	120 VAC	**Line Frequency:**	60 Hz
Max Setting:	150 min	**Minimum Setting:**	4.5 min	**Motor Burden:**	2.5 VA
Operating Temp Max:	140°F (+60°C)	**Operating Temp Min:**	0°F (-18°C)	**Output Pulse Ratio:**	1% of dial range
Output Rating:	10 A (120 VAC)	**Power Loss Reset:**	No	**Repeatability:**	±2%
Reset Time:	1 s	**Terminal Count:**	15	**Voltage Tolerance:**	+10%/-15%
Last Verified:	11/15/2026 1:57 AM				

Contact Us

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