Danaher — Timers and Controllers

HA42A6A211J



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The **HA42A6A211J** is an electromechanical interval timer manufactured by Danaher in the Timers and Controllers series. The device inserts a repeatable delay into machinery so sequential actions such as pump changeover, heater dwell, or conveyor indexing occur at controlled intervals. It integrates a motor-driven gear train with a clutch and contact stack to provide timing without relying on an external controller. Where PLC slots are limited or a reset after power loss is undesirable, its self-contained mechanism provides deterministic operation independent of controller scan cycles.

The timing motor accepts a single-phase supply of **120 VAC** at **60 Hz**, so it can be wired directly to standard control transformers without secondary regulation. The output section uses silver contacts rated at **15 A**, allowing it to switch moderate inductive or resistive loads such as contactor coils, solenoid valves, or pilot lamps. The timer provides **three separate poles**, allowing make-or-break functions to be assigned to independent circuits within the same timing cycle. A **solenoid-actuated clutch** engages the drive train and couples the drive motor to the cam stack only when a timing command is issued. This arrangement reduces wear while the unit remains on standby.

For longer delays, the geared mechanism provides a maximum timing span of **120 s**. The dial face uses a **20:1 turn ratio**, so one full revolution equals six seconds and provides fine adjustment for short processes. The primary drive is a **synchronous motor**, and its speed remains locked to the line frequency for repeatable timing under modest supply fluctuations. An outer bezel measuring **4 in** in diameter provides a clear scale that can be adjusted while wearing gloves. The cam follower resets automatically when the pointer returns to zero.

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Specifications

Clutch Actuation:	Solenoid	**Contact Current Rating:**	15 A	**Contact Material:**	Silver
Contact Set Count:	3	**Dial Turn Ratio:**	20:1	**Maximum Timing Period:**	120 s
Outer Dial Diameter:	4 in	**Supply Frequency:**	60 Hz	**Supply Voltage:**	120 VAC
Timing Drive:	Synchronous Motor	**Last Verified:**	11/14/2026 8:00 AM		

Contact Us

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