


**Manufacturer and Supplier of Cramer Motor Brand
Timers, Motors and Hour Meters**



 Model C11 Cycle Timers



 Series 637 AC and 638 DC
Quartz Hour Meters
Round or Rectangle Bezel



 Model 6100 AC Hysteresis Motor



 Model C10 Motorized Cycle Timer



Series 635 Non-Resettable and
636 Resettable Hour Meters
Round or Square Bezel



 Models 105, 107, 113 AC & 800 DC
Permanent Magnet Motors

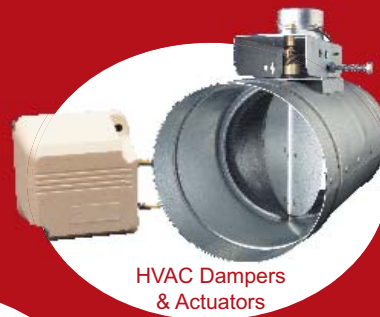
For these applications and more:



Warewashing
Equipment



CNC Machine
Tools



HVAC Dampers
& Actuators



Construction
Equipment



Aircraft
Lighting

Cramer Motor Brand Timers, Motors and Hour Meters

M.H. Rhodes/Cramer Company, divisions of Capewell Components Company, LLC, has provided superior handcrafted timers, motors, and measuring devices to satisfied customers since 1922. We continue to provide our customers with superior customer service, manufacturing operations, design engineering, sales, and warehousing from our South Windsor, Connecticut based facility. Cramer company brand motorized cycle timers, AC, DC Permanent magnet motors, hysteresis type motors and hour meter (ETI's) product solutions are well recognized in commercial and residential markets throughout the United States, Canada and worldwide.

Model C10 & C11 Motorized Cycle Timers



Model C10 Motorized Cycle Timer



Model C11 Cycle Timers



Features

- Superior cycle repeat accuracy
- Permanent magnet motor drive (C10 Model)
- 1 to 3 Cams cycling options (C11 Model)
- 3 to 10 Cams cycling options (C10 Model)
- ±3° Cam setting accuracy
- Switch terminals quick disconnect
- UL & cUL Approved

C10 Motorized Cycle Timers control multiple timing-related functions and are typically used in commercial dishwashers to control timing of: water fill, dispense detergent, rinse and drain. Model C10 timers are available with three to ten cams in an extruded aluminum frame with permanent magnet motor drive for fast starts/stops and can be field adjusted. Cams can be factory cut to customer specifications in seconds, minutes or hour timing increments.

C11 Cycle Timers are typically used in HVACR systems and commercial refrigeration units to control defrost cycles, or other application requiring control of multiple timing-related functions. Model C11 timers are more compact and are available with one to three cams set on a rigid aluminum plate. Cams can be factory cut to customer specifications in seconds, minutes or hour timing increments.

Series 635 Non-Resettable, 636 Resettable Hour Meters and Series 637 AC & 638 DC Quartz Hour Meters in Round or Square Bezel



Series 635 Non-Resettable and 636 Resettable Hour Meters



Series 637 AC and 638 DC Quartz Hour Meters



Features

- 635 & 636 Model Voltage:
 - AC: 24, 120, 240 VAC 50 or 60Hz
- 637 & 638 Model Voltage:
 - DC: 10-80 VDC
 - AC: 90-264 VAC, 50 to 60Hz
- Pushbutton resettable (636 Model only)
- Superior Quartz accuracy (637 & 638 Models)
- 100% Sealed, waterproof (637 & 638 Models)
- 6 Figure display: 99999.9
- Rugged, tamper proof design
- Round, square or rectangle bezel mounting
- UL Approved (635 & 636 Models)
- UL & cUL, CE Approved & RoHS Compliant

635 & 636 AC Hour Meters (ETI's) are typically found in commercial and industrial equipment indicating, monitoring and recording a process where the time used is required, recording "on-time" usage of machinery for billing purposes and record "in-service" operation time for preventive maintenance for machinery or equipment. Available in pushbutton resettable and non-resettable versions, round or square bezel front panel mount. Cramer brand AC hour meters provide easy to read, six figure time registration in seconds, minutes or hours to meet your specific requirements.

637 AC & 638 DC Quartz Hour Meters are the most accurate and long-term time keeping sealed hour meters available used in commercial equipment to record "on-time" usage of machinery for billing purposes and record "in-service" operation time for preventive maintenance for machinery or equipment. Both AC and DC models are available in the standard industry two screw or clip rectangular and three screw round panel mounting options. The 100% sealed case protects against tampering and environmental elements, providing years of reliable service. All models are NEMA 4X, 12 rated when mounted with optional gasket.

Model 6100 AC Hysteresis Motors and Models 105, 107, 113 AC & 800 DC Permanent Magnet Motors



Models 105, 107, 113 AC & 800 DC Permanent Magnet Motors



Model 6100 AC Hysteresis Motor



Features

- Larger external rear output bearing
- Stall torque performance feature
- Quiet operation & back drive capability
- High temperature operation
- Rotation direction: CW & CCW
- Lifetime lubrication
- Multiple gear ratios available
- UL Approved, Class F Rated Coil

6100 AC Hysteresis Motors and 105, 107, 113 AC & 800 DC Permanent Magnet Motors are typically used in HVAC damper actuators, automated teller machines, medical pumps, transit ticket dispensers and point of purchase machines where fast starts, stops and synchronous speeds need to be maintained.

Cramer hysteresis motors are synchronous-type motors that provides smooth, quiet performance and allows operation to a stall condition without damage or increase in temperature. External rear bearing provides stability, strength and allows for a double-ended output shaft that can be configured with pinions, levers, flats or knurls. The Class F coil rated at 155° C is standard equipment on the 6100 hysteresis motor to ensure dependable operation at high temperatures.

Cramer AC and DC permanent magnet motors are available in the round or pear shape gear case designed to contain a wide range of gear ratios.

www.mhrhodes-cramer.com



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