

CONSTRUCTION:

Housing:

ASTM B85 Pressure Die Cast Aluminum
 Polyester Powder Coated

Motor:

Single Phase, Reversible, Permanent
 Split Capacitor Induction Motor

Capacitor:

Metalized Polyester

Spur Gearing:

AGMA class 7, C12L14, Induction Hardened

Worm Gearing:

Worm: 4140 heat treated, self locking
 Worm Gear: Al-Brz / 303L composite

Bearings:

Shaft: SAE 841 Sintered Bronze Bushing
 Gear: Sintered Bronze on floating steel pins

Lubrication:

High Temperature Synthetic Grease

Override:

17-4PH Stainless Steel Hardened to H900

Heater:

Optional, 9 Watt PTC style

Terminal Strip:

Basic: 10 - 22 AWG
 Servo: 12 - 22 AWG

Torque limiting:

Optional, open and closed preset at factory

Limit Switches: SPDT-DB

120VAC - 10A - 1/2 HP
 220VAC - 10A - 3/4 HP
 28VDC - 4A INDUCTIVE
 28VDC - 6A RESISTIVE

Exposed Fasteners:

Stainless Steel

Travel Stops:

Externally adjustable at both 0 and 90
 degrees

Conduit Entries:

Two 1/2" NPT, Optional M20 or PG 13.5

Weight:

11 lbs.

Enclosure:

NEMA 4, 4X, IP 65

PERFORMANCE:

Output Torque:

300 and 500 in.-lbs.

90 Degree travel times: (60 Hz)

8, 15, intermittent, and 30, 60 sec cont.

Gear Ratios:

1392:1, 2413:1, 5069:1 and 11151:1

Motor Insulation:

Class H, 338 F (170 C) Thermal Trip

Voltages:

115V or 230V / 60 or 50 Hz

Temperature:

-40°F to 150°F (-40°C to 65°C)

Duty:

Continuous duty: 60 & 30 sec., will operate
 continuously

at a max. ambient temperature of 104°F
 (40°C)

Intermittent Duty: 25%, can maintain
 operation when

cycled; once per four similarly timed rest
 periods

at a max. ambient temperature of 104°F
 (40°C)

Manual Operation:

Pull to Engage, Push to Disengage

Emergency shut-off, disconnects power to
 motor

3 1/2" diameter handwheel with a 30:1 drive
 ratio

Optional Spinner available

Rim pull: 16 and 26 lb. respective with torque

**Current Draws: (Full Load / Locked
 Rotor)**

	<u>300 in.lb.</u>	<u>500 in.lb.</u>
115v/8sec	1.0/1.4	
115v/15sec	1.0/1.4	1.0/1.4
115v/30sec	0.8/0.9	1.0/1.4
115v/60sec	0.8/0.9	0.8/0.9
220v/8sec	0.5/.54	
220v/15sec	0.5/.54	0.5/.54
220v/30sec	0.4/.54	0.5/.54
220v/60sec	0.4/.54	0.4/.54

SERIES 70

ON / OFF

