

CONSTRUCTION:

Housing:

ASTM B85 Pressure Die Cast
 Aluminum
 Polyester Powder Coated

Motor:

Single Phase, Reversible, Permanent
 Split Capacitor Induction Motor, 33Fr

Capacitor:

Metalized Polyester

Spur Gearing:

AGMA class 9, C1144, Induction
 Hardened

Worm Gearing:

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

Bearings:

Shaft: SAE 841 Sintered Bronze
 Gear: Sealed permanently lubricated
 ball bearings

Lubrication:

High Temperature Synthetic Grease

Override:

17-4PH Stainless Steel Hardened to H
 900

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 3/4" NPT, Optional M25 or PG 16

Weight:

45 lbs.

Enclosure:

NEMA 4, 4X, IP 65

PERFORMANCE:

Output Torque:

3000, 5000 and 6500 in.-lbs.

90 Degree travel times: (60 Hz)

18 intermittent, and 30 sec cont.

Gear Ratios:

2078:1, and 3336:1

Motor Insulation:

Class 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: 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
 12" diameter handwheel with a 30:1 drive ratio
 Optional Spinner available

Rim pull: 37, 61, and 80 lb. respective with torque

Current Draws: (Full Load / Locked Rotor)

	<u>3000 in.lb.</u>	<u>5000 in.lb.</u>	<u>6500 in.lb.</u>
115v/18sec	1.1/3.0	1.8/3.1	
115v/30sec	.83/3.2	1.1/3.0	1.8/3.1
220v/18sec	.78/1.4	.80/1.4	
220v/30sec	.75/1.2	.78/1.4	.80/1.4

SERIES 70

ON / OFF

