Specifications:

Power Supply
- AC 24 V (AC 18 V to 30 V) at 50/60 Hz: Class 2 or SELV, 6.1 VA Running, 1.2 VA Holding Position
- DC 24 V (DC 21.6 V to 28.8 V): Class 2 or SELV, 3.5 W Running, 0.5 W Holding Position
- Minimum Transformer Size: 7 VA per Actuator

Auxiliary Switch Rating
- (-A) Models: Two Single-Pole, Double-Throw (SPDT), Double-Insulated Switches with Gold over Silver Contacts:
  - AC 24 V, 50 VA Pilot Duty

Spring Return
- Direction is Selectable with Mounting Position of Actuator:
  - Actuator Side A is away from damper or valve: CCW Spring Return
  - Actuator Side B is away from damper or valve: CW Spring Return

Equipment Rating
- Class 2 or Safety Extra-Low Voltage (SELV)

Rotation Range
- Maximum Full Stroke: 95°
- Adjustable Stop: 35 to 95° Maximum Position

Electric Stall Detection
- Protects from overload at all angles of rotation

Torque
- 70 lb·in. (8 N·m)

Time: 90° of Rotation
- Power On (Running) 55 to 71 Seconds for 0 to 70 lb·in (8 N·m) Load, at All Operating Conditions
- 60 Seconds Nominal at Full Rated Load (0.25 rpm)
- Power Off (Spring Returning) 13 to 26 Seconds for 0 to 70 lb·in (8 N·m) Load, at Room Temperature
- 21 Seconds Nominal at Full Rated Load, 39 Seconds Maximum with 70 lb·in (8 N·m) Load at -4°F (-20°C)
- 108 Seconds Maximum with 53 lb·in (6 N·m) Load at -4°F (-20°C)

Enclosure
- NEMA 2 (IP54) for all mounting orientations

Manual Override
- Hex Head Screw

Ambient Conditions
- Standard Operating: -40 to 140°F (-40 to 60°C); 90% RH Maximum, Noncondensing
- Storage: -40 to 185°F (-40 to 85°C); 95% RH Maximum, Noncondensing

Electrical Connections
- 48 in. UL 758 Type AWM Halogen-Free Cable with 18 AWG (0.85 mm²) Conductors & 0.25 in. (6 mm) Ferrule Ends

Conduit Connections
- Integral Connectors for 3/8 in. (10 mm) Flexible Metal Conduit

Mechanical Connections
- Round Shafts: 5/16 to 5/8 in. (8 to 16 mm)
- Square Shafts: 1/4 to 1/2 in. (6 to 12 mm)

Life Cycle
- 60,000 Full Stroke Cycles with 70 lb·in. (8 N·m) Load — 1,500,000 Repositions with 70 lb·in. (8 N·m) Load

Noise Rating
- Running: < 47 dBA at 70 lb·in (8 N·m) Load, at a Distance of 39-13/32 in. (1 m)
- Holding: < 20 dBA at a Distance of 39-13/32 in. (1 m)
- Spring Returning: < 52 dBA at 70 lb·in. (8 N·m) Load - (All at a Distance of 39-13/32 in. (1 m))

Dimensions
- Actuator Only - 6.33 (L) x 3.90 (W) x 2.26 (H)

Weight
- Actuator Only - 3.43 lb. (3.8 lb w/ Aux. Switches)

Agency Certification
- UL Listed, CCN XAPX, File E27734; to UL 60730-1A: 2003-08, Ed. 3.1, Automatic Electrical Controls for Household and Similar Use; and UL 60730-2-14: 2002-02, Ed. 1, Part 2, Particular Requirements for Electric Actuators.

Wiring: (Cable)

NOTE: WARNING: All DS-70 Series actuators are designed for use only in conjunction with operating controls. Where an operating control failure would result in personal injury and/or loss of property, it is the responsibility of the installer to add safety devices or alarm systems that protect against, and/or warn of, control failure.

To avoid excessive wear or drive time on the motor, use a controller and/or software that provides a time-out function to remove the signal at the end of rotation (stall).

The performance specifications are nominal and conform to acceptable industry standards. For application at conditions beyond these specifications, consult the nearest Bray office. Bray controls shall not be liable for damages resulting from misapplication or misuse of its products.