Specifications:

- **Power Supply**: AC 100 to 240 V (AC 85 V to 264 V) at 50/60 Hz: 0.06 A Running, 0.02 A Holding Position.

- **Auxiliary Switch Rating**
  - (-A) Models: One Single-Pole, Double-Throw (SPDT), Double-Insulated Switch with Silver Contacts:
    - AC 120 V, 5.8 A Resistive, 1/4 hp, 275 VA Pilot Duty
    - AC 240 V, 5.0 A Resistive, 1/4 hp, 275 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

- **Rotation Range**: Maximum Full Stroke: 95°

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

- **Torque**: 27 lb·in. (3 N·m)

- **Time**:
  - 90° of Rotation:
    - Power On (Running) 24 to 28 Seconds for 0 to 27 lb·in. (3 N·m) Load, at Room Temperature
    - 27 Seconds Nominal at Full Rated Load (0.5 rpm)
    - Power Off (Returning) 19 to 23 Seconds for 0 to 27 lb·in. (3 N·m) Load, at Room Temperature
    - 22 Seconds Nominal at Full Rated Load
    - 28 Seconds Maximum with 27 lb·in. (3 N·m) Load at -22°F (-30°C)

- **Enclosure**: NEMA 2 (IP54) for all mounting orientations

- **Ambient Conditions**:
  - Standard Operating: -22 to 140°F (-30 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 1/2 in. (13 mm) Threaded Conduit Connector(s)

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

- **Life Cycle**: 60,000 Full stroke cycles (1,500,000 repositions) at full working load at Rated Running Torque Audible

- **Noise Rating**:
  - Running: <45 dBA at 27 lb·in. (3 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: <51 dBA at 27 lb·in. (3 N·m) Load, at a Distance of 39-13/32 in. (1 m)

- **Dimensions**: 6-3/8” (L) x 3-15/16” (W) x 2-1/4 (H)

- **Weight**: 2.0 lb. (2.4 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: Ed. 1, Part 2, Particular Requirements for Electric Actuators.
  - UL Listed, CCN XAPX7, File E27734; to UL 60730-1:02-CAN/CSA: July 2002, 3rd Ed., Automatic Electrical Controls for Household and Similar Use; and CSA C22.2 No. 24-93 Temperature Indicating and Regulating Equipment
  - CE Mark – This product is in compliance with the essential requirements and other relevant provisions of the EMC Directive 2004/108/EC and Low Voltage Directive 2006/95/EC.

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**Wiring: **(Cable)

**IMPORTANT:**
Do not install multiple DS-27 Series Actuators connected to the same mechanical load. Master-Slave application of DS-27 Series Actuators requires that each actuator be connected to independent loads.

**NOTE:** WARNING: All DS-27 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.