Specifications:

Power Requirements
AC 24 V (19.2 to 30 V) at 50/60 Hz: Class 2, 15.5 VA Running, 7.7 VA Holding Position;
DC 24 V (21.6 to 26.4 V): Class 2, 6.7 W Running, 2.9 W Holding Position

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

Transformer Sizing
20 VA Minimum per Actuator

Control Input Impedance
100k Ohms

Input Signal
Factory Set DC 0 to 10 V, CW Rotation with Signal Increase;
Selecting DC 0 (2) to 10 V or 0 (4) to 20 mA with Field Furnished 500 Ohm, 0.25 W Minimum Resistor;
Switch Selectable Direct or Reverse Action with Signal Increase

Feedback Signal
0 (2) to 10 VDC for Desired Rotation Range up to 90°; Corresponds to Rotation Limits, 1 mA Maximum

Spring Return
Direction is Selectable with Mounting Position of Actuator:
Side A, Actuator Face Away for CCW Spring Return;
Side B, Actuator Face Away for CW Spring Return

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
177 lb-in. (20 N-m)

Time: 90° of Rotation
Power On (Running) 150 Seconds for 0 to 177 lb-in (0 to 20 N-m) at All Operating Conditions; Independent of Load
Power Off (Returning) 20 Seconds for 0 to 177 lb-in (0 to 20 N-m) at Room Temperature

Enclosure
NEMA 2, IP54 - for all mounting directions

Manual Override
Hex Head Screw

Ambient Conditions
Standard Operating -40 to 131°F (-40 to 55°C); 90% RH Maximum, Noncondensing
Storage -85 to 185°F (-65 to 85°C); 95% RH Maximum, Noncondensing

Electrical Connections
48 in. (1.2 m) Halogen-Free Cable with 18 AWG (0.75 mm²) Wire Leads

Conduit Connections
Integral Connectors for 3/8 in. Flexible Metal Conduit

Mechanical Connections
Round Shafts 1/2 to 3/4 in. or 12 to 19 mm
Square Shafts 3/8 and 1/2 in. or 10, 12, and 14 mm

Life Cycle
60,000 Full stroke cycles (1,500,000 repositions)

Noise Rating
Running < 40 dBA at 39-13/32 in. (1 m)
Holding < 20 dBA at 39-13/32 in. (1 m)
Returning < 55 dBA at 39-13/32 in. (1 m)

Dimensions
10” (L) x 4” (W) x 3-3/16 (H)

Weight
6.4 lb (2.9 kg)

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)

For Override Wiring please refer to our Install Instructions

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NOTE: WARNING: All DS-180 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.

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.