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## DS24-180-(A) — Submittal/Technical Data

06/30/22

177 lb-in. — Spring Return — On/Off — Auxiliary Switch Option

**Specifications:** 

Power Supply AC 24 V (19.2 to 30 V) at 50/60 Hz: Class 2, 24.6 VA Running, 7.7 VA Holding Position;

DC 24 V (21.6 to 26.4 V): Class 2, 17.6 W Running, 2.8 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 25 VA Minimum per Actuator

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 Adjustable from 30 to 90° CW or CCW with Optional Adjustable Stop Kit; Mechanically Limited to 90°

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) 24 to 57 Seconds for 0 to 177 lb·in (0 to 20 N·m) at All Operating Conditions;

35 Seconds Nominal at Full Rated Load

Power Off (Returning) 11 to 15 Seconds for 0 to 177 lb-in (0 to 20 N·m) at Room Temperature;

35 Seconds Maximum for 0 to 177 lb·in (0 to 20 N·m) at -22°F (-30°C) 130 Seconds Maximum for 0 to 177 lb·in (0 to 20 N·m) at -40°F (-40°C)

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

Noise Rating Running < 66 dBA at 39-13/32 in. (1 m) Holding < 18 dBA at 39-13/32 in. (1 m)

Returning < 66 dBA at 39-13/32 in. (1 iii)

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

Weight 6.4 lb (2.9 kg)

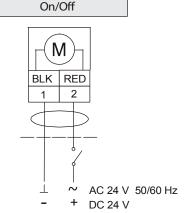
Agency Certification UL Listed, CCN XAPX, File E27734; to UL 60730-1A: 2003-08, Ed. 3.1,

Automatic Electrical Controls for Household and Similar Use; and

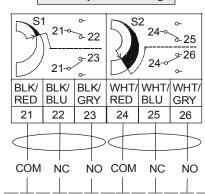
UL 60730-2-14: 2002-02, Ed. 1, Part 2, Particular Requirements for Electric Actuators.

## Wiring: (Cable)

Life Cycle







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.