5 Bray COMMERCIAL

Bray Controls Commercial Division 13788 West Road, Suite 200A Houston, Texas 77041 BCDSales@Bray.com Phone: 1-888-412-2729 www.braycommercialdivision.com



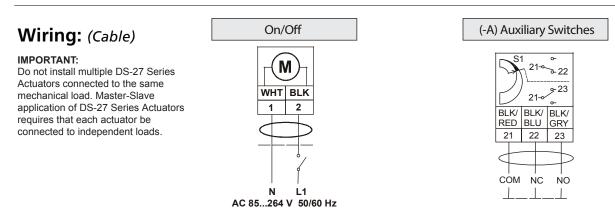
DSU20-27-(A) — Submittal/Technical Data 27 lb-in— 120/240 V — Spring Return — On/Off — Auxiliary Switch Option

06/30/22

Specifications:

Γ			
	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°	
		Adjustable Stop: 35 to 95° Maximum Position	
	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 mm ²) 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)	
	Life Cycle	Square Shafts 1/4 in. to 5/16 in. (6 to 8 mm) 60,000 Full stroke cycles (1,500,000 repositions) at full working load at Rated Running Torque Audible	
	Life Cycle Noise Rating	Running <45 dBA at 27 lb·in. (3 N·m) Load, at a Distance of 39-13/32 in. (1 m)	
	Noise Railing	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	
	Agency certification	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.



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.

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.