

## DCM24-310-(A) — Submittal/Technical Data

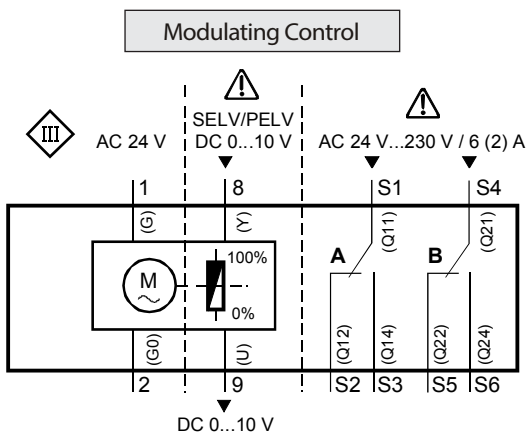
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310 lb-in. — Non-Spring Return — Modulating — Auxiliary Switch Option

### Specifications:

Power Supply	24 VAC $\pm$ 20%, at 50/60 Hz
Power Consumption Running	8 VA 8W
Control Signal	0 to 10 VDC
Control Input Impedance	100k Ohms
Input Signal Y (wires 8-2)	DC 0...10 V - (Max. permissible input voltage DC 35 V)
Mechanical Output	310 lb-in (35 Nm)
Positioning Signal	DC 0...35 V at Offset $U_0 = 0...5$ V and Span $\Delta U = 2...30$ V
Dual Auxiliary Switch	Standard Cable AC, 6 A Resistive, AC 2 A General Purpose
Voltage	Standard Cable 24 to 250 VAC
Switch Range Switch A	0 to 90° with 5° Intervals (Recommended Range Usage 0 to 45°) Factory Setting 5°
Switch B	0 to 90° with 5° Intervals (Recommended Range Usage 45 to 90°) Factory Setting 85°
Audible Noise Rating	<45 dBA at 1 m
Rotation Range	Nominal Angle of Rotation 90°, mechanically limited to $95^\circ \pm 2^\circ$
Rotation Timing	150 sec. at 50 Hz (125 sec. at 60Hz)
Cycle Life	Designed for 60,000 full stroke cycles
Electrical Connection	3 ft. (0.9 m) Pre-cabled - AWG 18
Mechanical Connection	3/8 to 1 in. (9.5 to 25.4 mm) diameter round shaft, 1/4 to 5/8 in. (6 to 18 mm) square shaft Minimum Shaft Length 3/4 (20 mm)
Enclosure	IP54 as per EN 60 529
Manual Override	External Push Button
Ambient Conditions	Operating -25 to 130°F (-32 to 55°C); 0 to 95% RH, non-condensing Storage -40 to 158°F (-40 to 70°C); 0 to 95% RH, non-condensing
Dimensions (L x W x H)	(L) 11.8" x (W) 3.9" x (H) 2.9 (300 x 100 x 67.5 mm)
Shipping Weight	4.4 lb (2 kg)
Equipment Rating	Class 2 According to UL, CSA - Class III per EN60730
Agency Compliance	UL listed to UL873-cUL certified to Canadian Standard C22.2 No. 24-93 CE conformity: Electromagnetic compatibility 2004/108/EC-Low-voltage directive 2006/95/EC

### Wiring: (Standard Cable)



Cable			Function
No.	Code	Color	
1	G	Red (RD)	AC 24 V Supply (SP)
2	G0	Black (BK)	Neutral (SN)
6	Y1	Violet (VT)	Control Signal Clockwise AC 0 V
7	Y2	Orange (OG)	Control Signal AC 0 V Counterclockwise
8	Y	Grey (GY)	Control signal DC 0...10 V, 0...35 V
9	U	Pink (PK)	Position indication DC 0...10 V
Auxiliary Switch - Factory Installed			
S1	Q11	Gray/Red (GY RD)	Switch A Input
S2	Q12	Gray/Blue (GY BU)	Switch A - N.C.
S3	Q14	Gray/Pink (GY PK)	Switch A - N.O.
S4	Q21	Black/Red (BK RD)	Switch B Input
S5	Q22	Black/Blue (BK BU)	Switch B - N.C.
S6	Q24	Black/Pink (BK PK)	Switch B - N.O.

**NOTE:** WARNING: All DC-310 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.