

SX D023 HW | Open/Close/Jog/Mod

Overview, Specifications, Dimensional Data, Materials of Construction, Wiring Diagrams

Haz Loc

Max Air Electric™

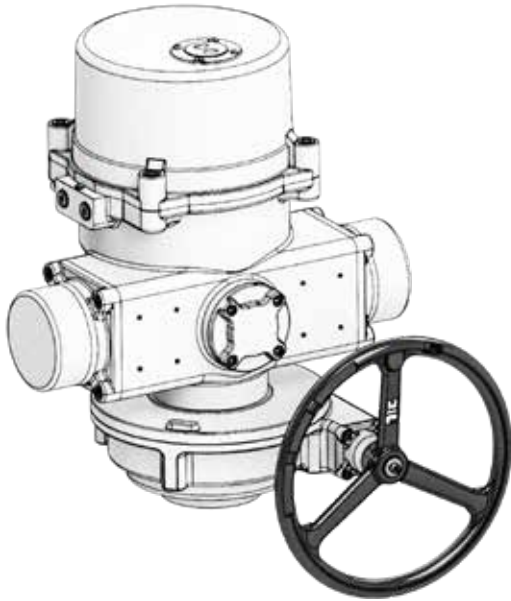
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Rev: 06/21/22



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SX D023 HW Series Open/Close/Jog/Modulating



Overview

The SX D023 HW Series are Hazardous Location-rated spring return, quarter-turn electric industrial service actuators delivering up to 2300 in-lbs torque in voltages ranging from 24VAC/VDC up through 230vac, and available in 2 position (Open/Close), Floating (Open/Close/Jog) or Modulating (4-20mA default or 2-10vdc) control schemes. (2) Form C auxiliary switches and an internal anti-condensate heater are standard. Key features include:

- 24v models operate on AC or DC power supplies
- 120vac & 230vac models operate on 50 or 60 Hz supplies
- Position indicator under glass
- ISO5211 compliant mounting with double-square drive socket
- Spring CW (standard) fail-safe positioning
- Clutch-free manual override handwheel
- IP68 standard

Options

- Spring CCW fail-safe positioning
- 3 Phase also available

HAZARDOUS LOCATION RATING

Class I, Division 1, Groups C, D T4
Class II, Division 1, Groups E, F & G T130°C
Ex db IIB T4 Gb (for Canada)
Class I, Zone 1, AEx db IIB T4 Gb (for US)
Ex tb IIIC T130°C Db (for Canada)
Zone 21, AEx tb IIIC T130°C Db (for US)
Type 4X & IP68 (72h, 7m)
(Zones 20, 21 or 22 not applicable in Canada)

Specifications

		SXTD023 HW	SXJD023 HW	SXMD023 HW
Supply	Torque Output (in-lb / Nm)	2300 in-lb / 260 Nm	2300 in-lb / 260 Nm	2300 in-lb / 260 Nm
24V	Starting Current (A) DC/60Hz/50Hz	85 / 85 / 85	#N/A	#N/A
	Running Current (A) DC/60Hz/50Hz	8.6 / 10 / 10	#N/A	#N/A
	Speed (90°) sec @ rated load - DC/60Hz/50Hz	16 / 16 / 16	#N/A	#N/A
	Speed (90°) sec @ spring return	4	#N/A	#N/A
	Motor Power	130 Watts	#N/A	#N/A
	Duty Cycle	100% (EN 60034) Class A (ISO 22153)	#N/A	#N/A
120V	Starting Current (A) 60Hz/50Hz	4.9 / 4.9	4.9 / 4.9	11 / 11.5
	Running Current (A) 60Hz/50Hz	3.7 / 2.5	3.7 / 2.5	3.8 / 6.9
	Speed (90°) sec @ rated load - 60Hz/50Hz	15 / 18	15 / 18	14 / 17
	Speed (90°) sec @ spring return	19	19	12
	Motor Power	130 Watts	130 Watts	130 Watts
	Duty Cycle	100% (EN 60034) Class A (ISO 22153)	100% (EN 60034) Class B (ISO 22153)	100% (EN 60034) Class C (ISO 22153)
230V	Starting Current (A) 60Hz/50Hz	2.4 / 2.4	2.4 / 2.4	5.6 / 5.7
	Running Current (A) 60Hz/50Hz	2 / 1.4	2 / 1.4	2.1 / 3.8
	Speed (90°) sec @ rated load - 60Hz/50Hz	15 / 18	15 / 18	14 / 17
	Speed (90°) sec @ spring return	19	19	12
	Motor Power	130 Watts	130 Watts	130 Watts
	Duty Cycle	100% (EN 60034) Class A (ISO 22153)	100% (EN 60034) Class B (ISO 22153)	100% (EN 60034) Class C (ISO 22153)
ALL	Environmental Rating	NEMA 4/4X & IP68		
	Electrical Entry	3/4" EMT x 2		
	Control	Open/Close	Open/Close/Jog	Modulating
	Auxiliary Switch - End of Travel	(2) Form C Volt-Free, Rated 10A @ 250vac, 5A @ 30VDC		
	Ambient Operating Range	-40°F ~149°F (-40°C~65°C)		
	Humidity Range	0-95% RH		
	Altitude Limit	9850 ft / 3000 m		
	Weight (kg / lbs)	137 kg / 302 lbs		

* Models weighing over 32 kg / 70lbs must be shipped by Truck

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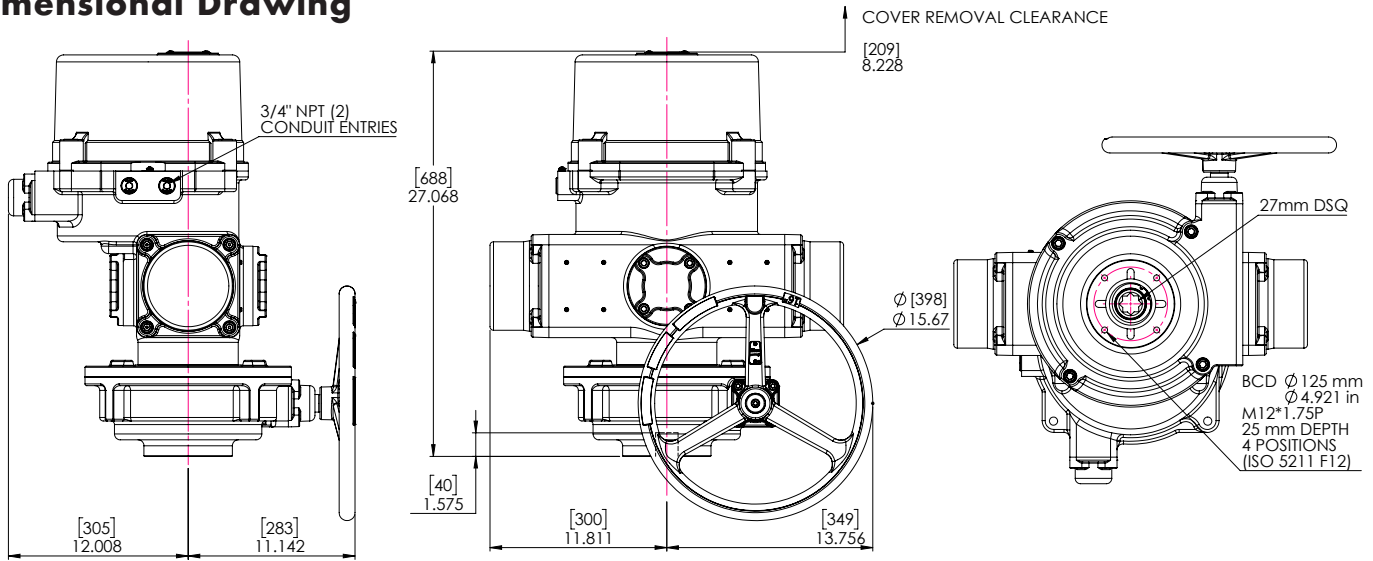
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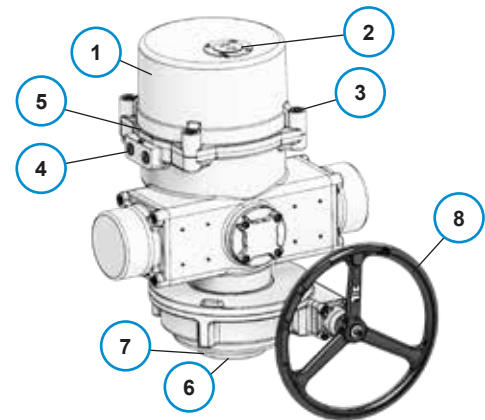
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Dimensional Drawing



Materials of Construction

#	DESCRIPTION	MATERIALS
1	Actuator	ADC12 Aluminum Alloy
2	Indicator	Soda Lime Glass
3	Cover Screw (x4)	A304
4	EMT Port Seals	Nickel plated Zinc
5	Cover Seal	NBR
6	ISO Mount Profiles	ADC12 Aluminum Alloy
7	Output Socket	Cast Iron, Hardened
8	Handwheel	Epoxy Coated Aluminum Alloy



Wiring Diagrams

Typical wiring diagram shown.

Max-Air reserves the right to change specifications through a continuous-improvement program.

Contact Max-Air for product specific wiring diagrams prior to engineering or installation efforts.

