

MX A003 | Open/Close/Jog/Mod

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

Haz Loc

Max Air Electric™

Max-Air
TECHNOLOGY

Rev: 06/21/22



Website

MX A003 Series Open/Close/Jog/Modulating



Overview

The MX A003 Series are Hazardous Location-rated quarter-turn electric industrial service actuators delivering up to 310 in-lb / 35Nm torque in voltages ranging from 12VDC 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:

- 12v & 24v models operate on AC or DC power supplies.
- 120vac & 230vac models operate on 50 or 60Hz supplies.
- Visual Position indicator
- ISO5211 compliant mounting with double-square drive socket
- Hex override shaft
- IP68 Submersion

HAZARDOUS LOCATION RATING

Class I, Division 1, Groups C, D T4
Class II, Division 1, Groups E, F & G T130°C
Class I, Zone 1, Ex db IIB T4 Gb (for Canada)
Class 1, Zone 1, Aex db IIB T4 Gb (for US)
Class II, Zone 21, Aex tb IIIC T130°C Db (for US)
Ex tb IIIC T130°C Db (for Canada)
(Zones 20, 21 or 22 not applicable in Canada)

Specifications

		MX A003
Supply	Torque Output (in-lb / Nm)	310 in-lbs / 35Nm
12V	Starting Current - DC Amps	3.0A
	Running Current - DC Amps	2.1A
	Speed (90°) @DC, seconds @ rated load	18 sec
	Motor, Voltage, Type, Class	12VDC 2-Pole Brush, Class F
	Motor Power	10W
	Duty Cycle	100% (EN 60034) / Class A/B/C (ISO 22153)
24V	Starting Current - DC Amps	2.0A
	Running Current - DC Amps	1.4A
	Speed (90°) @DC, seconds @ rated load	18 sec
	Motor, Voltage, Type, Class	24VDC 2-Pole Brush, Class F
	Motor Power	10W
	Duty Cycle	100% (EN 60034) / Class A/B/C (ISO 22153)
120V	Starting Current - AC Amps	2.0A
	Running Current - AC Amps	0.7A
	Speed (90°) @60Hz, seconds @ rated load	12 sec
	Motor, Voltage, Type, Class	120VAC Split-Phase TENV Class F
	Motor Power	10W
	Duty Cycle	100% (EN 60034) / Class A/B/C (ISO 22153)
230V	Starting Current - AC Amps	3.0A
	Running Current - AC Amps	0.4A
	Speed (90°) @60Hz, seconds @ rated load	15 sec
	Motor, Voltage, Type, Class	230VAC Split-Phase TENV Class F
	Motor Power	10W
	Duty Cycle	100% (EN 60034) / Class A/B/C (ISO 22153)
ALL	Environmental Rating	NEMA 4/4X & IP68
	Electrical Entry	1/2" EMT x 2
	Control	Open/Close/Jog, Modulating, 2 Position, 3 Position
	Auxiliary Switch - End of Travel	(2) Form C Volt-Free, Shared Common, Rated 3A @ 250vac, 0.5A @ 30VDC
	Ambient Operating Range	-22°F~+158°F (-30°C~+70°C)
	Humidity Range	0-95% RH
	Altitude Limit	9850 ft / 3000 m
	Weight (kg / lbs)	2 kg / 4.4 lbs

* All Amperage and speed specifications based on Open/Close Standard Duty motors @ 40°C ambient.

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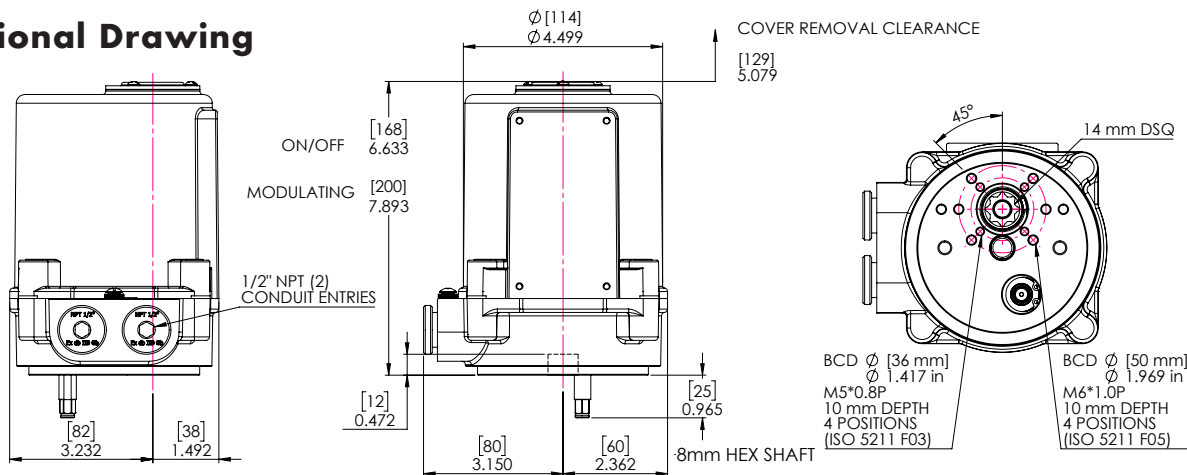
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Dimensional Drawing



Materials of Construction

#	DESCRIPTION	MATERIALS
1	Actuator	ADC10 Aluminum Alloy
2	Indicator	Soda Lime Glass
3	Cover Screw	SUS304 Stainless Steel (Qty. 4)
4	EMT Port Seals	SUS304 Stainless Steel
5	Cover Seal	Viton
6	ISO Mount Profiles	ADC10 Aluminum Alloy
7	Output Socket	45C Carbon Steel

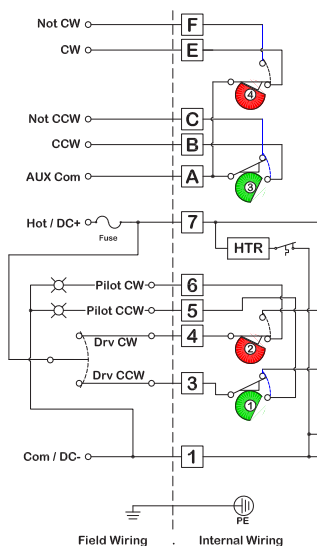


Wiring Diagrams

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.

Open/Close/Jog



Modulating

