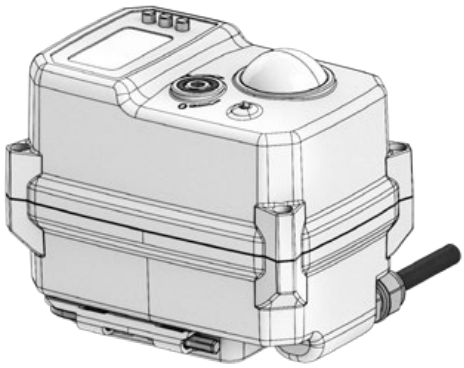
MA 02 A Series - Adv | Modulating

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

Rev: 12/7/23

Website

MA 02 A Series - Aluminum Advanced - Modulating Control



Overview

The MA 02 Advanced Series are quarter-turn electric industrial service actuators delivering up to 177"lbs torque in 24vac/vdc, or 90~265vac models, and available in 2 position (Open/Close), Floating (Open/Close/Jog) or Modulating (4-20mA default or 2-10vdc) control schemes. The Advanced model eliminates the need to remove the cover to set travel stops, which are soft-set through the OLED Menu function. Other parameters are also accessible thru the same Menu program. Analog feedback and an internal anti-condensate heater are standard. Key features include:

- 24 volt models operate on AC or DC power supplies.
- 120vac & 230vac models operate on 50 or 60Hz supplies.
- 3D Raised Position indicator
- 3m pre-wired field interface cable included
- A 4mm Manual override socket is top-mounted for ease of use.
- M10 nickel plated brass cable gland (x1)
- MAM02R available with high-speed function
- MAM02R available with electronic fail-safe function

Specifications

		MAM02R-A24AD-ABSFS	MAM02S-A24AD-ABSNF
Supply	Torque Output (in-lb / Nm)	177"lb / 20Nm	177"lb / 20Nm
24V	Power Consumption (Max/Run/Hold)	36W / 9.6W / 0.6W	15W / 9.6W / 0.6W
	Peak Current (@ Rated Voltage)	1.5A, 5ms @ 24VDC	0.625A, 5ms @ 24VDC
	Fuse Rating	5A	5A
	Speed (90°) DC-60Hz/50Hz, seconds	10s Mains; 15s EFS	10s
	Duty Cycle (IEC60034)	S3-85% @ ≤85% rated torque	S3-85% @ ≤85% rated torque
	Motor Power	36W	15W
	Motor Protection, Temp / Class	155°C / Class F	155°C / Class F
	Fail-Safe (EFS)	SuperCap	none
	Fail Direction on loss of power	CW - Default, CCW Programmable	N/A
	Modulating Control - Max starts / hour	50	300
	Product Weight (lbs / kg)	1.36lbs / 0.62 kg	1.36lbs / 0.62 kg

		MAM02R-A9265-ABSFS	MAM02S-A9265-ABSNF
Supply	Torque Output (in-lb / Nm)	177"lb / 20Nm	177"lb / 20Nm
95~ 265VAC	Power Consumption (Max/Run/Hold)	36W / 10W / 1.2W	15W / 10W / 1.2W
	Peak Current (@ Rated Voltage)	0.16A, 5ms @ 220VAC	0.068A, 5ms @ 220VAC
	Fuse Rating	5A	5A
	Speed (90°) DC-60Hz/50Hz, seconds	10s Mains; 15s EFS	10s
	Duty Cycle (IEC60034)	S3-85% @ ≤85% rated torque	S3-85% @ ≤85% rated torque
	Motor Power	36W	15W
	Motor Protection, Temp / Class	155°C / Class F	155°C / Class F
	Fail-Safe (EFS)	SuperCap	none
	Fail Direction on loss of power	CW - Default, CCW Programmable	N/A
	Modulating Control - Max starts / hour	50	300
	Product Weight (lbs / kg)	1.36lbs / 0.62 kg	1.36lbs / 0.62 kg

ALL	Control	4-20mA Input/Feedback, Fixed
	Electrical Entry	M10 nickel-plated brass cable gland (x1)
	Auxiliary Switch - Type	None, Analog feedback is standard
	Auxiliary Switch - End of Travel	None
	End-of-Travel Adjustment	Programmable thru OLED Menu
	Manual Override	4mm hex key, stored in lower housing clip
	De-clutch mechanism	None required
	Environmental Rating	IP67 Indoor / Outdoor (requires sun/rain shield)
	Ambient Operating Range	5°F to +140°F / -15°C to +60°C
	Humidity Range	0-95% RH
	Altitude Limit	9850 ft / 3000 m

Max-Air Technology, Inc. • 114 Resource Drive • Wentzville, MO 63385 • United States of America
Tel +1.636.272.4934 • Toll Free 888.842.9998 • Fax 636.272.4937 • www.maxairtech.com • info@maxairtech.com

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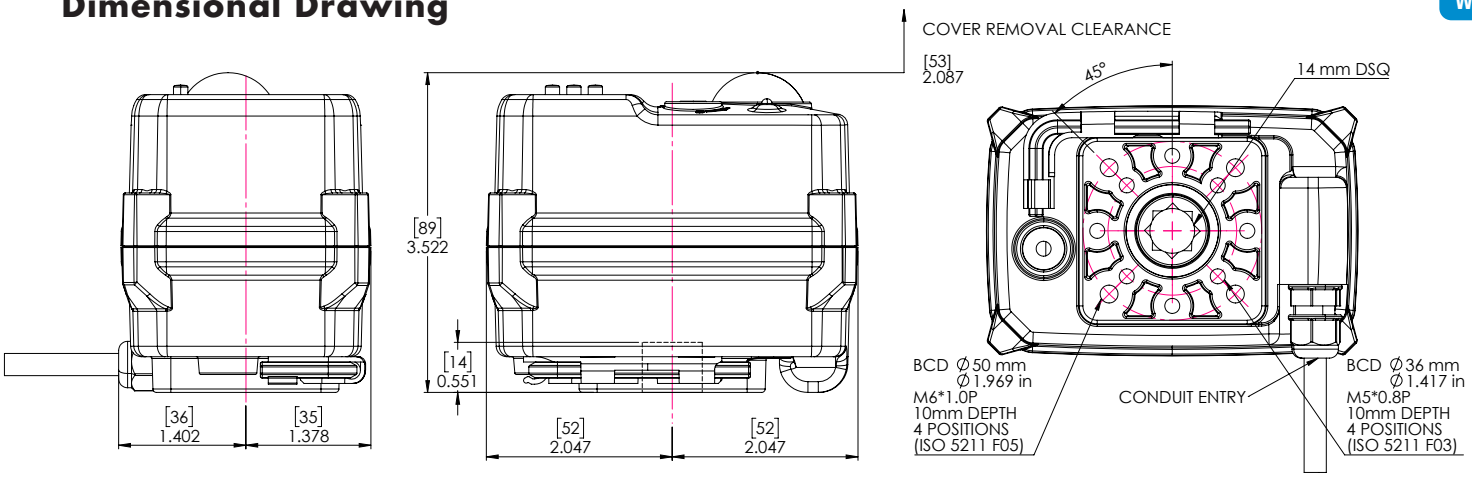
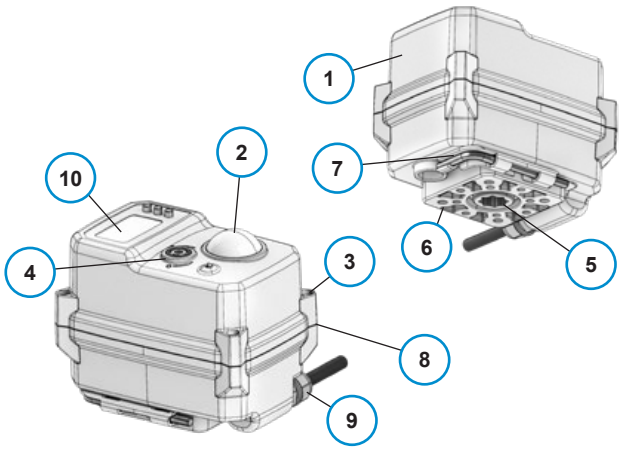
Dimensional Drawing



Materials of Construction

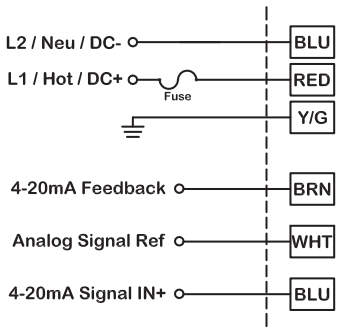
#	DESCRIPTION	MATERIALS
1	Actuator	Cast Aluminum
2	Indicator	Transparent AS
3	Cover Screw (x4)	A304
4	Override Port	A304
5	Output Socket	NP Hardened Steel
6	ISO Mount Profiles	Cast Aluminum
7	4mm Hex Key	Tool Steel
8	Cover Seal	NBR
9	Waterproof Cable Gland	Nickel Plated Brass
10	Program Console	OLED Display



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.



MAM Fail-Safe / Non Fail-Safe
VAC/VDC Modulating

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Max-Air Technology, Inc. • 114 Resource Drive • Wentzville, MO 63385 • United States of America
Tel +1.636.272.4934 • Toll Free 888.842.9998 • Fax 636.272.4937 • www.maxairtech.com • info@maxairtech.com