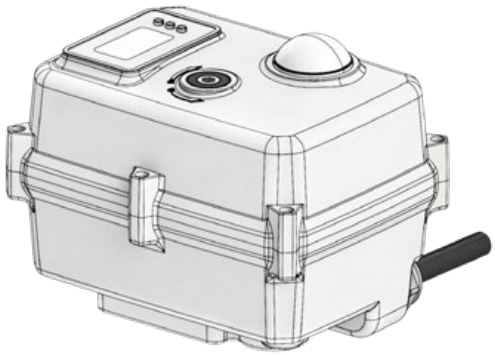
MA 11 A Series - Adv | Open/Close/Jog

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

Rev: 12/7/23

Website

MA 11 A Series - Aluminum Advanced - Open/Close/Jog Control



Overview

The MA 11 Advanced Series are quarter-turn electric industrial service actuators delivering up to 974"lbs torque in 24vac/vdc or 92~265vac 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. (2) Form A (NO) auxiliary switches and an internal anti-condensate heater are standard. Key features include:

- 24 volt models operate on AC or DC power supplies.
- 120vac & 230vac (autoswitching) models operate on 50 or 60Hz supplies.
- 3D Raised Position indicator
- 3m pre-wired field interface cable included
- A 5mm Manual override socket is top-mounted for ease of use.
- M14 nickel plated brass cable gland (x1)
- MAR11R available with high-speed function
- MAR11R available with electronic fail-safe function

Specifications

		MAR11R-A24AD-AASFS	MAR11S / MAS11S-A24AD-A7SNF
Supply	Torque Output (in-lb / Nm)	974"lb / 110Nm	974"lb / 110Nm
24V	Power Consumption (Max/Run/Hold)	100W / 9.6W /1.9W	100W / 9.6W / 1.9W
	Peak Current (@ Rated Voltage)	4.17A, 5ms @ 24VDC	4.17A, 5ms @ 24VDC
	Fuse Rating	7A	7A
	Speed (90°) DC-60Hz/50Hz, seconds	10s	10s
	Duty Cycle (IEC60034)	S3-85% @ ≤85% rated torque	S3-85% @ ≤85% rated torque
	Motor Power	100W	100W
	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
	2 Position Control - Max starts / hour	50	300
	Product Weight (lbs / kg)	6.60lbs / 3.00 kg	6.60lbs / 3.00 kg

		MAR11R-A9265-AASFS	MAR11S / MAS11S-A9265-A7SNF
Supply	Torque Output (in-lb / Nm)	974"lb / 110Nm	974"lb / 110Nm
95~ 265VAC	Power Consumption (Max/Run/Hold)	100W / 9.6W /2.5W	100W / 9.6W /2.5W
	Peak Current (@ Rated Voltage)	0.45A, 5ms @ 220VAC	0.043A, 5ms @ 220VAC
	Fuse Rating	5A	5A
	Speed (90°) DC-60Hz/50Hz, seconds	10s	10s
	Duty Cycle (IEC60034)	S3-85% @ ≤85% rated torque	S3-85% @ ≤85% rated torque
	Motor Power	100W	100W
	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
	2 Position Control - Max starts / hour	50	300
	Product Weight (lbs / kg)	6.60lbs / 3.00 kg	6.60lbs / 3.00 kg

ALL	Control	Open/Close, Open/Close/Jog
	Electrical Entry	M14 nickel-plated brass cable gland (x1)
	Auxiliary Switch - Type	(2) Soft, Form A
	Auxiliary Switch - End of Travel	(2) Form A Volt-Free, Rated 0.1A @ 250vac, 0.5A @ 30VDC
	End-of-Travel Adjustment	Programmable thru OLED Menu
	Manual Override	5mm 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

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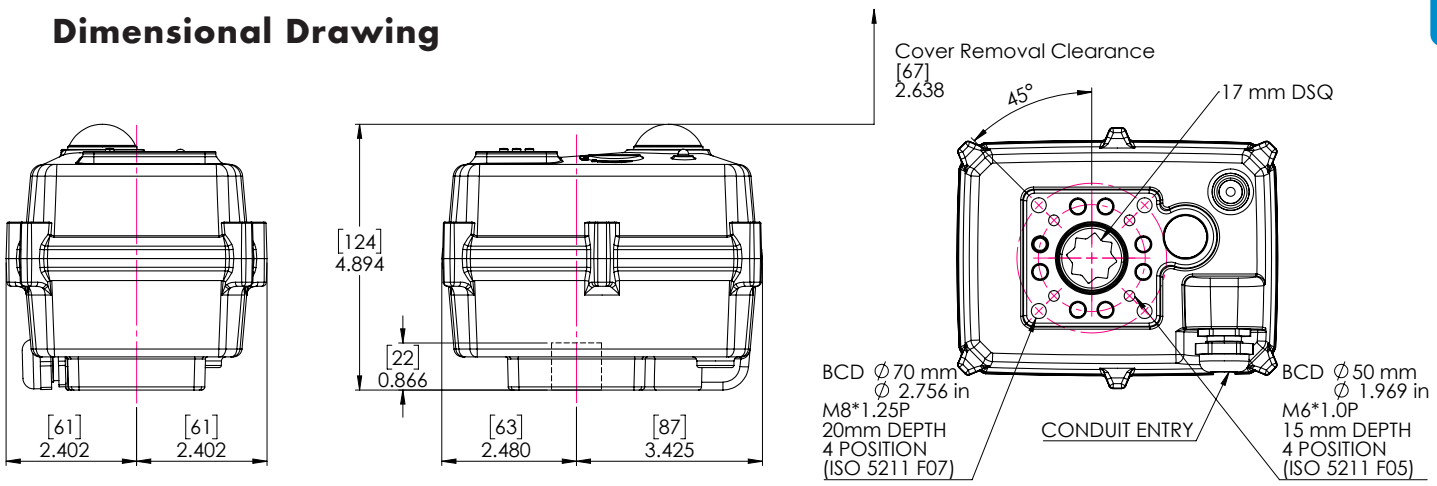
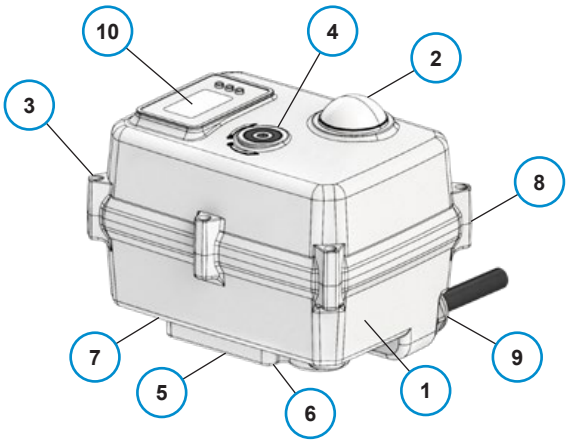
Dimensional Drawing



Materials of Construction

#	DESCRIPTION	MATERIALS
1	Actuator	Cast Aluminum
2	Indicator	Transparent AS
3	Cover Screw (x6)	A304
4	Override Port	A304
5	Output Socket	NP Hardened Steel
6	ISO Mount Profiles	Cast Aluminum
7	5mm Hex Key	Tool Steel
8	Cover Seal	NBR
9	Waterproof Cable Gland	Nickel Plated Brass
10	Program Console	OLED Display

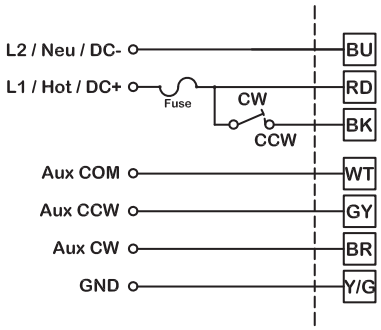


Wiring Diagrams

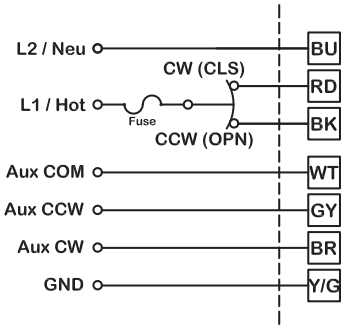
Typical wiring diagram shown.

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.



MAR Fail-Safe / Non Fail-Safe
VAC/VDC Open Closed



MAS Non Fail-Safe
VAC Open Closed Jog

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