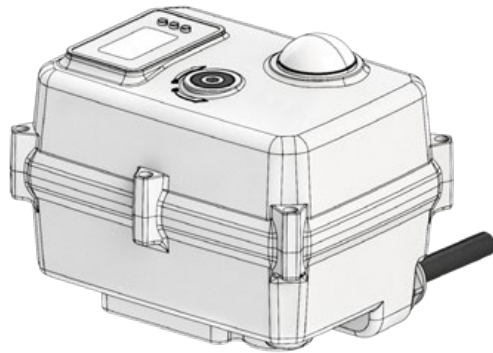


MA 11 A Series - Adv | Modulating

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



MA 11 A Series - Aluminum Advanced- Modulating Control



Overview

The MA 11 Advanced Series are quarter-turn electric industrial service actuators delivering up to 974"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 5mm Manual override socket is top-mounted for ease of use.
- M14 nickel plated brass cable gland (x1)
- MAM11R available with high-speed function
- MAM11R available with electronic fail-safe function

Specifications

| | | MAM11R-A24AD-ADSFS | MAM11S-A24AD-ADSNF |
|--|-----------------------------------|----------------------------|----------------------------|
| 24V | Supply | | |
| | Torque Output (in-lb / Nm) | 800"lb / 90Nm | 974"lb / 110Nm |
| | 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 - Fixed | N/A | |
| Modulating Control - Max starts / hour | 50 | 300 | |
| Product Weight (lbs / kg) | 6.60lbs / 3.00 kg | 6.60lbs / 3.00 kg | |

| | | MAM11R-A9265-ADSFS | MAM11S-A9265-ADSNF |
|--|-----------------------------------|----------------------------|----------------------------|
| 95~ 265VAC | Supply | | |
| | Torque Output (in-lb / Nm) | 800"lb / 90Nm | 974"lb / 110Nm |
| | Power Consumption (Max/Run/Hold) | 100W / 9.6W /2.5W | 100W / 9.6W /2.5W |
| | Peak Current (@ Rated Voltage) | 0.45A, 5ms @ 220VAC | 0.45A, 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 - Fixed | N/A | |
| Modulating Control - Max starts / hour | 50 | 300 | |
| Product Weight (lbs / kg) | 6.60lbs / 3.00 kg | 6.60lbs / 3.00 kg | |

| | | |
|----------------|----------------------------------|--|
| ALL | Control | 4-20mA & 2-10vdc, Input/Feedback, Field Selectable |
| | Electrical Entry | M14 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 | 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 | |

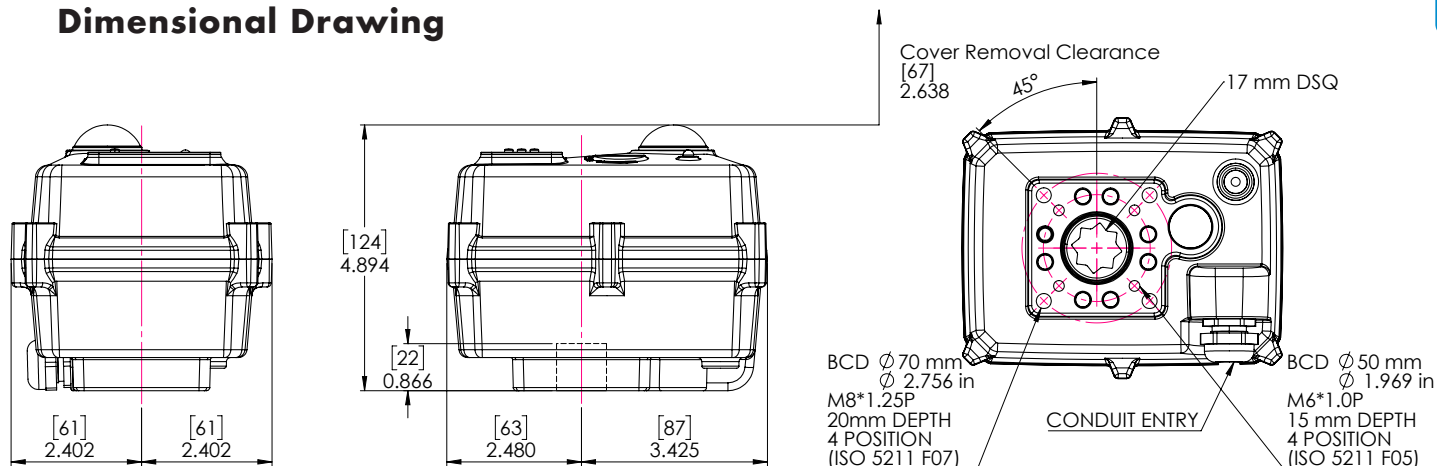
MA 11 A Series - Adv | Modulating

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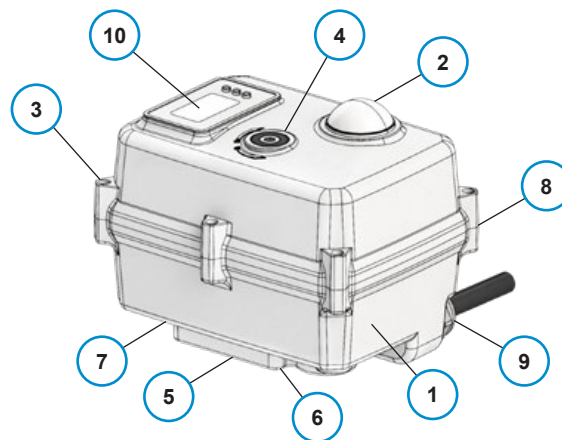
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Dimensional Drawing



Materials of Construction

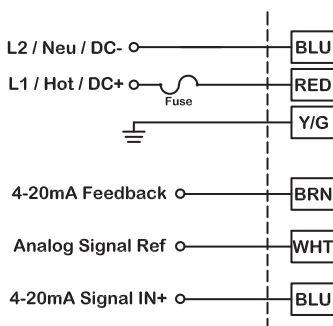
| # | DESCRIPTION | MATERIALS |
|----|------------------------|---------------------|
| 1 | Actuator | Cast Aluminum |
| 2 | Indicator | Transparent AS |
| 3 | Cover Screw (x6) | A304 |
| 4 | Override Port | A304 |
| 5 | Output Socket | NP Hardened Steel |
| 6 | ISO Mount Profiles | Cast Aluminum |
| 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.



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