

# Series 19 MAV Modulating Multi Turn Electric Actuator Specification

## PART 1: SCOPE

All requirements are for Series 19 MAV SMART Modulating Multi Turn Electric Actuators.

## PART 2: MATERIALS

- Stainless steel
- PC/PET
- PC
- BUNA-N
- Alloy steel

## PART 3: SPECIFICATIONS

Model	Cycle Time / 360°	Mounting Configuration	Output Torque (in-lbs)	Duty Cycle	Amperage Draw	
					95-265 VAC	24 VAC/VDC
<b>S20MTHC1C3W</b>	4 seconds	F03/F04/F05x14	177	75%	N/A	0.96 Amps
<b>S50MTHC1C3W</b>	16 seconds	F05/F07x14	442	75%	0.24 Amps	1.2 Amps

- **Voltage:** Multi Voltage: 95-265 VAC 1PH 50/60Hz is standard, or 24VAC/VDC
- **Electrical Connection:** 2m cable with flying leads
- **Field Selectable Signal:** User can select 4-20mA, 1-5VDC, 2-10VDC, etc. for sizes S50
- **Transmitter:** Transmits position in the same configuration as control signal
- **Dry Alarm / Fault Contacts:** 1 SPST Form A relay rated at 0.5 Amps, typically used for alarm reporting
- **Space Heater:** To maintain a constant internal temperature and limit internal condensation
- **Integral Local Controls:** To cycle automated valve locally using supply power
- **Enclosure:** NEMA Type 4X w/ stainless steel trim
- **Maximum Ambient Temperature:** 150° F

### 3.1 Standard Features

- Reversing, brushless, DC motor
- 75% duty for high cycle applications
- User adjustable amount of turns
  - 5 turns max for S20
  - 15 turns max for S50
- Multi-voltage (95-265VAC or 24VAC/VDC)
- Space heater to limit condensation
- Integral positioner
- Reverse acting ability
- User selectable fail position (loss of command signal)
- Integral transmitter
- Permanently lubricated steel gearing
- ISO mounting configuration
- Visual dome position indication
- LED position indication (red closed/green open/blue alarm)
- OLED screen displaying position and alarm
- Pushbuttons for firmware calibration and local controls
- Manual override for loss of power

- General purpose NEMA Type 4X PC/PET enclosure
- 1SPST dry contact for alarm reporting
- QR code that links to user manual and wiring schematic
- CE compliant
- RoHS compliant

### **3.2 Approved Manufacturer**

Series 19 MAV SMART Modulating Multi Turn Electric Actuators shall be provided by Asahi/America, Inc. of Lawrence, MA. Manufacturer must be ISO-9001 certified.

## **PART 4: OPTIONS**

### **4.1 Voltages**

Voltages, where required, shall be provided and factory installed by Asahi/America, Inc. in accordance with manufacturers requirements. Voltages shall be installed inside the actuator enclosure, and allow the actuator to operate with the required voltage. Available voltage option is 24VAC/VDC and 95-265 VAC.

## **PART 5: INSTALLATION PROCEDURES**

Installation practices should follow all electrical codes and regulations, plant/jobsite codes and regulations, and be performed by adequately trained or licensed personnel. Installation practices should also follow all manufacturers guidelines, standards, and requirements set forth in Series 19 installation, operation and maintenance manuals. All accessories should be installed in accordance with the manufacturers requirements as well as any facility requirements.