

# Series 19 SAV SMART Modulating Failsafe Part Turn Electric Actuator Specification

## PART 1: SCOPE

All requirements are for Series 19 SAV Modulating Failsafe Part Turn Electric Actuators.

## PART 2: MATERIALS

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

## PART 3: SPECIFICATIONS

Model	Cycle Time / 90°	Mounting Configuration	Output Torque (in-lbs)	Duty Cycle	Amperage Draw	
					95-265 VAC	24 VAC/VDC
S20HC1C3FSW	10 seconds	F03/F04/F05x14	177	75%	0.34 Amps	0.78 Amps
S50HC1C3FSW	10 seconds	F05/F07x14	442	75%	0.39 Amps	0.84 Amps
S100HC1C3FSW	10 seconds	F05/F07x17	973	75%	1.24 Amps	2.89 Amps
S400HC1C3FSW	25 seconds	F07/F10x22	3540	75%	1.83 Amps	4.80 Amps

- **Voltage:** Multi Voltage: 95-265 VAC 1PH 50/60Hz is standard, or 24VAC/VDC
- **Capacitor Discharge System:** Power source for fail position
- **Electrical Connection:** 2m cable with flying leads
- **Field Selectable Signal:** User can select 4-20mA, 1-5VDC, 2-10VDC, etc. for sizes S50, S110, & S400
- **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
- Multi-voltage (95-265VAC or 24VAC/VDC)
- Integral capacitor discharge system
- User selectable fail position (loss of supply power)
- Space heater to limit condensation
- Integral positioner
- Reverse acting ability
- User selectable control signal
- 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 SAV SMART Modulating Failsafe Part 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.