

FSA101-0000-01

ROTARY SERVO ACTUATOR



APPLICATIONS

FSA101-0000-01 rotary servo actuator is used to position the primary and secondary flight control surfaces on unmanned platforms. Being a variant of FSA101 series, FSA101-0000-01 actuators differ with the integrated electromagnetic brake. These actuators are flight proven with 25,000+ flight hours.



Unmanned Platforms - Primary flight control surface, secondary flight control surface

Urban Air Mobility Vehicles - Flight control surfaces

STANDARDS

MIL- STD-461E

MIL-STD-810G

KEY FEATURES

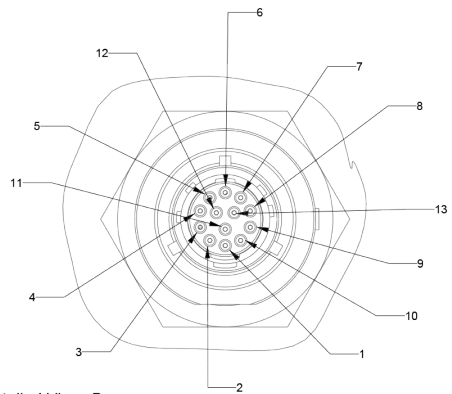
- > Primary & secondary flight control surface servo actuator
- > Flight-proven, 25,000+ flight hours
- > In-flight health monitoring
- > Lightweight structure (Actuator + Controller)
- > Compatible with MIL- STD-461E ve MIL-STD-810G

Actuator Specifications

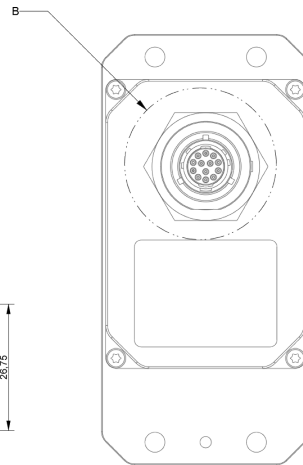
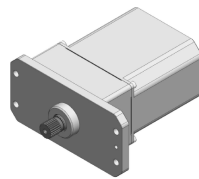
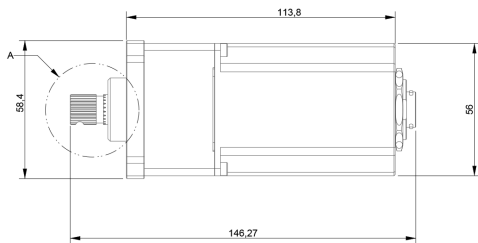
Size	56 x 81 x 113.8
Operating Voltage	28 V
Standby Current	0.06 A
No Load Speed	180°/s
Speed at Nominal Torque	150°/s
Rated Torque	10Nm
Peak Torque	16 Nm
Current at Nominal Torque	< 1.6 A
Stall Current	< 1.1 A
Output Resolution	0.022°
Hysteresis max	< 1°
Mechanical Backlash	≤ 0.5°
Weight	920 g
Electrical Limit	±33° (configurable)
Mechanical Limit	±38°
Frequency Response	≥6 Hz

Environmental Features

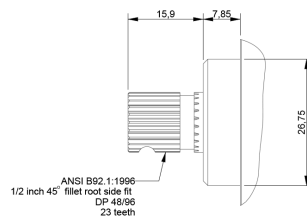
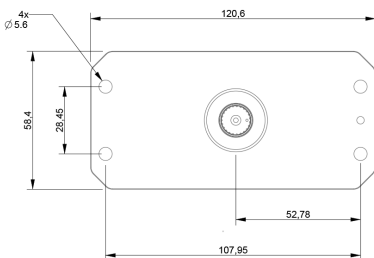
Operating Temperatures	-40/ +71°C
Storage Temperatures	-54/ +85 °C
Altitude	40,000 ft
Vibration	MIL-STD-810G
Mechanical Shock	MIL-STD-810G
RE102	MIL-STD-461F
RS103	MIL-STD-461F
CS114	MIL-STD-461F



Detailed View: B



Detailed View: A



Connector	MS27474T10A35PA
Analog Interface	± 10 VDC
Pinout Diagram	
Pin	Signal
1	+28 VDC Power
2	+15 VDC
3	Signal Ground
4	-15 VDC
5	Command Input
6	Command Monitor
7	Position Output
8	Power Ground
9	Chassis Ground
10	Brake Release (Low)
11	Spare
12	Spare
13	Spare