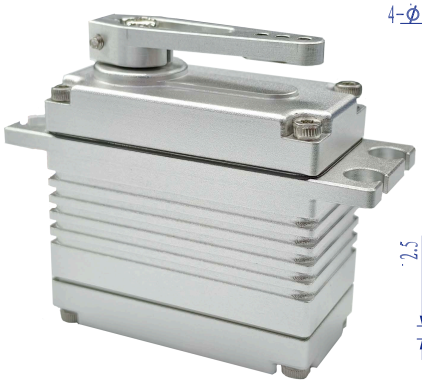
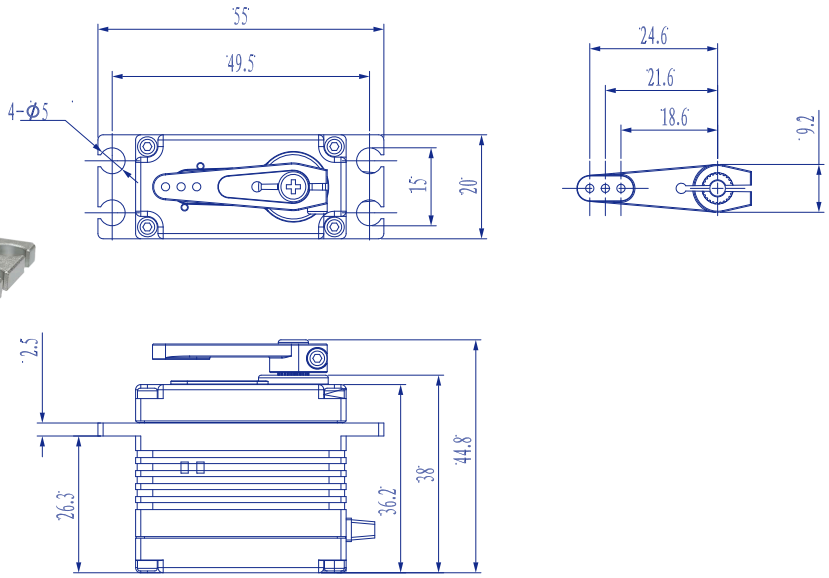
ASSUN
DRIVING THE FUTURE

# AM-4020SPI1617AE-298-0783 Series






| SERVO ACTUATOR DATA | |
|---|---|
| Rated voltage | DC 7.4V |
| Voltage range | DC 6V-8.4V |
| Peak torque | 30 Kg.cm@7.4V |
| Rated torque | 9 Kg.cm@7.4V |
| No load rotation speed | 500°/Sec@7.4V |
| Rated rotation speed | 380°/Sec@7.4V |
| Peak current | ＜6A |
| Rated current | 1.5A 120%Max |
| Default angle | ±50° |
| Operating temperature range | -20°C ~ +65°C |
| Shell material | 6061 T6 |
| Motor type | DC Brushless motor |
| Gear material | Steel |
| Position sensor | Non-contact sensor |
| Outline dimension | 44.8mm*55mm*20mm |
| Weight | 66g±10g |

| COMMAND SIGNAL | |
|---|---|
| **PWM Command interface** | |
| Signal voltage | HIGH:min.3.3V，max.5.0V<br>LOW:min.0V，max.1.5V |
| Pulse lengths | 900μs-2100μs |
| Pulse lengths for position | 1000μs/1500μs/2000 μs -50°/0°/+50° |
| **RS485 command interface and protocol specifications** | |
| Baud-rate | 57600±1.5% bits/s |
| Protocol(Documentation available) | 10 Byte(incl.1byte check sum) |
| Number of data bits | 8 |
| Number of stop bits | 1 |
| Parity | None |

Annotate:

(1) Tolerance±10%;
(2) Programming Tool for PWM-Versions required;
(3) -20°C...+65°C，Δt =85°C（- 4°F...+149°F，Δt =153°F）;
(4) Low Temperature Modification on request（-20°C/-4°F）。

Motor data tested at 25°C. Motor operation exceeding continuous limits will reduce life or result in damage.
At elevated ambient temperatures, load current must be reduced.

Download datasheet: https://assunmotor.com/documents-download

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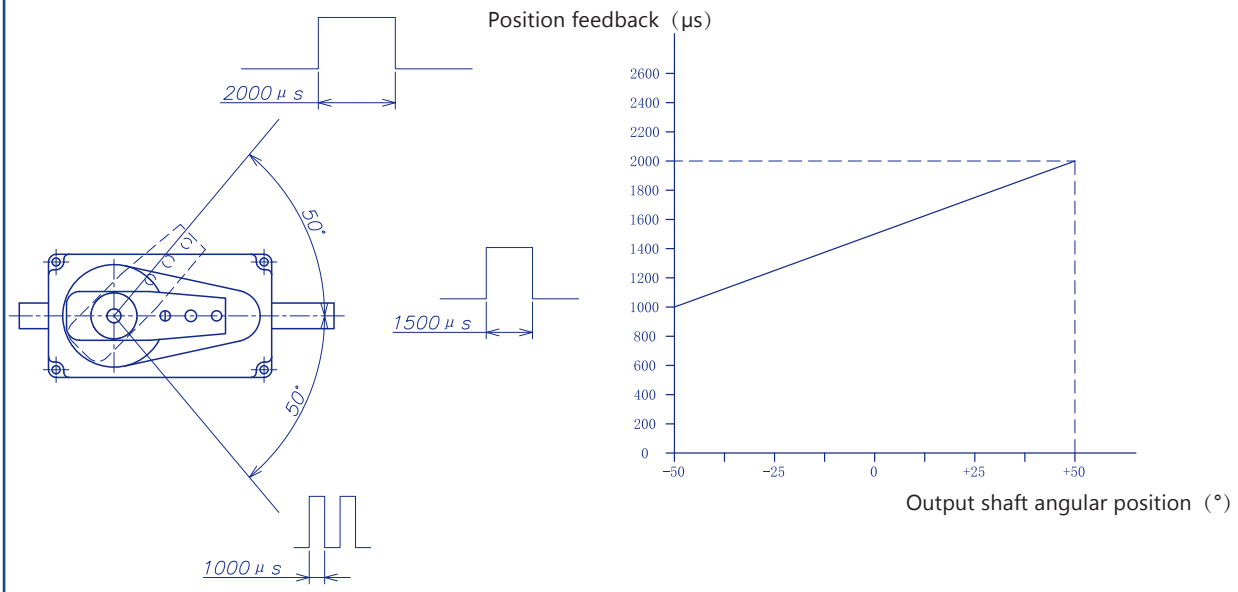
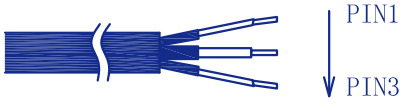
## Position feedback signal

**The position feedback signal is a square wave output signal that is directly related to the angular position of the output shaft.**




## CONNECTOR

### PIN FUNCTION DEFINITION




| Pin | |
|---|---|
| 1 | SIG |
| 2 | DC+ |
| 3 | DC-(GND) |
| | |
| | |
| | |
| | |
| | |
| | |

Motor data tested at 25°C. Motor operation exceeding continuous limits will reduce life or result in damage.
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