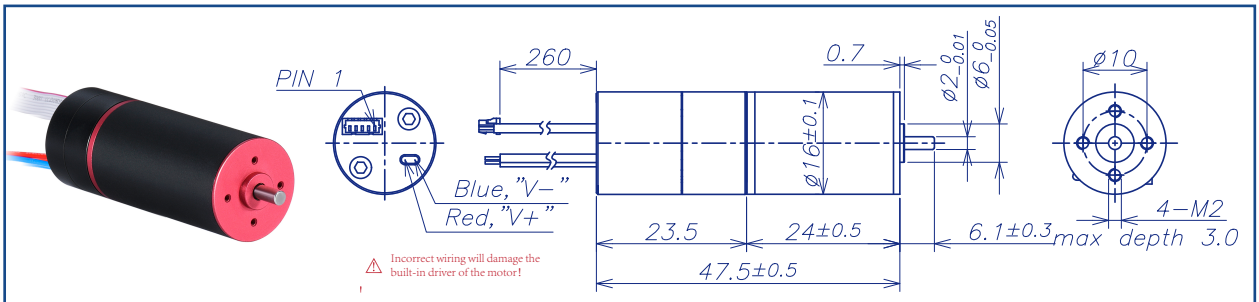
# AM-PC1648AE SERIES (Built-In CAN+RS485 Communication Protocol)




| | | Brushless Servo Motor | | Ball Bearing | | | |
|---|---|---|---|---|---|---|---|
| **Motor Model** | | **1213** | **1215** | | | | |
| Nominal voltage | V | 12 | 12 | | | | |
| Voltage Range | V | 9.5~14.5 | 9.5~14.5 | | | | |
| Standby current | mA | 55 | 55 | | | | |
| Rated current | mA | 380 | 420 | | | | |
| Torque constant | mN.m/A | 6.6 | 6.2 | | | | |
| Rated torque | mN·m | 2.5 | 2.6 | | | | |
| Rated speed | rpm | 7800 | 9300 | | | | |
| Pulse number / circle | Pulse / circle | 16384 | 16384 | | | | |
| Overload torque | mN.m | 5 | 5.2 | | | | |
| Maximum overload time | second | 5 | 5 | | | | |
| Moment of inertia | gcm² | 0.19 | 0.19 | | | | |
| Weight | g | 51 | 51 | | | | |

## Additional Information

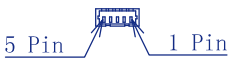
Note: Excessive shock loads and periodic oscillations can cause the motor to run unsteadily. Stabilize the system by improving the load.

| | | | |
|---|---|---|---|
| Motor thermal resistance: | **** K/W | Motor thermal time constant: | **** S |
| Axial (dynamic): | 1.5 N | Radial (5mm from head face): | 6.0 N |
| Press-fit force (static): | 40 N | Max allowable screw depth info flange: | 3.0 mm |
| Maximum radial runout (5mm from the thread surface): | ≤0.02 mm | Axial play: | 0 (<2.0N ) |
| Maximum winding temperature | 125°C | Ambient temperature range: | -40 to 85°C |

## Part Information

| **Control function description** | Pin Definition | |
|---|---|---|
| CANOPEN DS 301 + 402<br>(Default node id: 0x08,500kbps) | 1. DGND 2. CAN-L 3. CAN-H | |
| MODBUS RS485 (RTU)<br>Default node id: 0X08<br>Baud rate: 57600bps,8,1,N,N. | 4. RS485-B | 5. RS485-A |
| | | |
| | | |

Sensor Connector:Molex 51021-0500




Cable color Pin1~5: Brown-Black-Yellow-Red-Blue

Wiring diagram

PC software and full set of data:

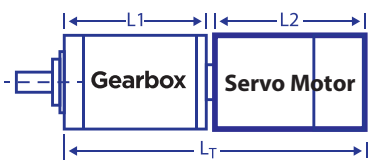
Website: https://www.assunmotor.com.cn/zlxz

**Total Length LT=L1+L2+L3**

| L1:16GP | L1:19GP | L2:PC16 | | |
|---|---|---|---|---|
| 15.9 | 18.8 | 47.5 | | |
| 19.6 | 23.6 | | | |
| 23.3 | 28.4 | | | |
| 27 | 33.2 | | | |

Note: The customer can select the gearbox to match the motor. It is recommended to weld motor shaft gears, some of which are listed here for reference.

**AM-PC1648AE Combiniation Scheme**




**Recommended Gearbox:**

AM-16GP
AM-19GP

For more combination specs, visit Assun Motor website.

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



Specifications are subject to change without notice. Copyright Assun Motor Pte Ltd. All Rights Reserved.