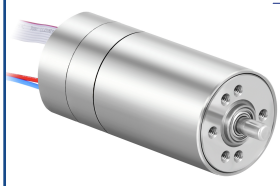
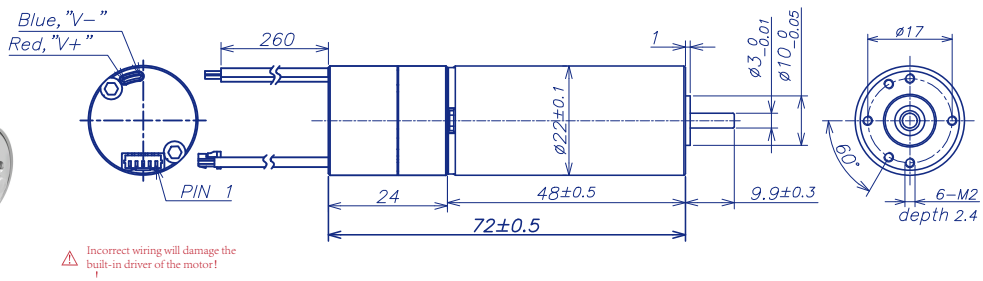
AM-PC2272GAE SERIES (Built-In CAN+RS485 Communication Protocol)





Brushed Servo Motor				Ball Bearing			
Motor Model		**1212**	**1812**	**2412**			
Nominal voltage	V	12	18	24			
Voltage Range	V	9.5~14.5	15.5~20.5	21.5~26.5			
Standby current	mA	55	45	35			
Rated current	mA	2200	1400	1000			
Torque constant	mN.m/A	8.4	13.1	18.2			
Rated torque	mN·m	18.4	18.4	18.2			
Rated speed	rpm	11500	11500	11100			
Pulse number / circle	Pulse / circle	16384	16384	16384			
Overload torque	mN.m	36.8	36.8	36.4			
Maximum overload time	second	5	5	5			
Moment of inertia	gcm²	9.3	9.3	9.3			
Weight	g	124	124	124			

Additional Information

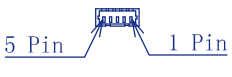
Note: Excessive shock loads and periodic oscillations can cause the motor to run unsteadily. Stabilize the system by improving the load.

Motor thermal resistance:	12.2 K/W	Motor thermal time constant:	835S
Axial (dynamic):	2.5 N	Radial (5mm from head face):	16.0N
Press-fit force (static):	16(90)N	Max allowable screw depth info flange:	2.4 mm
Maximum radial runout (5mm from the thread surface):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature	125°C	Ambient temperature range:	-40 to 85°C

Part Information

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

Sensor Connector:Molex 51021-0500



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

Wiring diagram

PC software and full set of data:

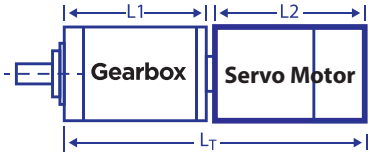
Website: https://www.assunmotor.com.cn/zlxz

Total Length LT=L1+L2+L3

L1:24GP	**L1:26GP**		**L2: CL22**	
24	25.7		72	
34.3	36			
42.8	44.5			
51.3	53			

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-PC2272GAE Combiniation Scheme



Recommended Gearbox:

AM-24GP
AM-26GP

For more combination specs, visit Assun Motor website.

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

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