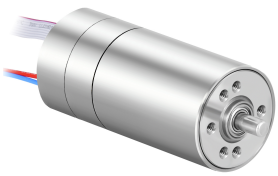
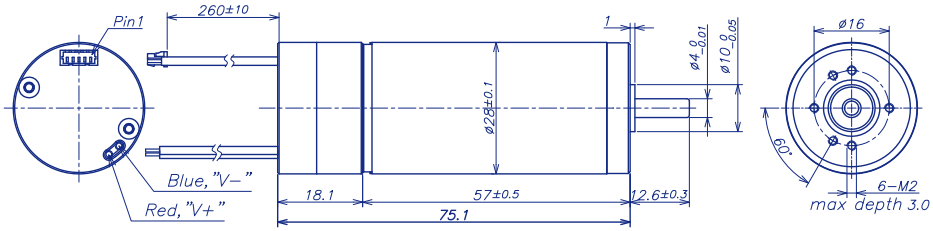
ASSUN SERVO MOTOR

BUILT-IN SERVO DRIVE INTEGRATED MOTOR-Brushed

ASSUN
DRIVING THE FUTURE

AM-PC2875GAE SERIES (Built-In CAN+RS485 Communication Protocol)





⚠ Incorrect wiring will damage the built-in driver of the motor!

		Brushed Servo Motor		Ball Bearing			
Motor Model		**1211**	**1811**	**2410**			
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	5500	3600	2600			
Torque constant	mN.m/A	10.1	14.4	21.5			
Rated torque	mN·m	55.5	51.8	55.8			
Rated speed	rpm	10100	10700	9600			
Pulse number / circle	Pulse / circle	16384	16384	16384			
Overload torque	mN.m	111	103.6	111.6			
Maximum overload time	second	5	5	5			
Moment of inertia	gcm²	28.4	28.4	28.4			
Weight	g	225	225	225			

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:	12.4 K/W	Motor thermal time constant:	**** S
Axial (dynamic):	7.3 N	Radial (5mm from head face):	28.0 N
Press-fit force (static):	60(120)N	Max allowable screw depth info flange:	3.5 mm
Maximum radial runout (5mm from the thread surface):	≤0.02 mm	Axial play:	Preset
Maximum winding temperature	125ºC	Ambient temperature range:	-40 to 85ºC

Part Information

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

Sensor Connector:Molex 51021-0500

H VIEW

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

Wiring diagram

PC software and full set of data:

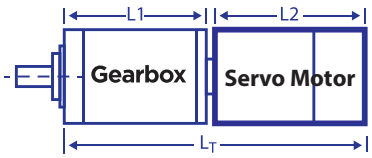
Website: https://www.assunmotor.com.cn/zlxz

Total Length LT=L1+L2+L3

L1:28GP	**L1: 32GP**	**L2:PC28**		
25.9	27.4	75.1		
33.1	35.9			
40.3	44.4			

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-PC2875GAE Combiniation Scheme



Recommended Gearbox:
AM-26GP
AM-28GP
AM-32GP

For more combination specs, visit Assun Motor website.

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

SERVO MOTOR

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