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## Brief Introduction

Combining permanent-magnet synchronous servo motor with high quality aluminum alloy press forming housing and well-designed gear reducer, SJSPDE03/06 ETC toll gate features high power density, low noise, small vibration, high efficiency and fast response as special driving unit applied. Compared with traditional three-phase asynchronous motor, permanent-magnet servo motor is more smaller, lighter, lower operation temperature, better power-saving, by which it improves power grid quality factor, and brings current power grid capacity into full play, thus save investment on power grid.

The control system includes synchronous servo motor, special controller and encoding. As an integration of high precise machinery industry and advanced digital control technology, SJSPDE03/06 promote quality, performance and user experience to new high level.

As advanced servo technology employed, the carbon fiber boom operates smoothly by continuously changing frequency, and very stable when falling as shock and rebound are completely dispelled at this process, by which its life cycle prolonged greatly. Finally, power saving is very outstanding and the min powder consumption is less than 10W.

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## Parameters

Technical Data	SJSPDE03	SJSPDE06
Motor Working Voltage	DC310V	
Rated Input Current	4.6A	
Rated Input Power	1.44Kw	
Rated Output Power	1.3Kw	
Rated Speed	100r/min	50r/min
Rated Torque	6.3N.m	
Planetary Gear Reduction Ratio	7.5:1	
Power Consumption	600W	
Motor Rotation	Bidirectional Reversible	
Motor Built-in 130°C Auto Reset Thermal Reducer	Yes	
Motor Insulation Class	F (155°C)	
Dielectric Strength	1500V/min	
Motor Life Cycle	20,000 hours	
Controller Working Voltage	AC220V/50Hz	
Boom Material	Carbon Fiber & PE Foam	
Max Boom Length	1.5m	3.0m
Opening Time	0.3 Second	0.6 Second
Closing Time	0.38 Second	0.68 Second
Duty Cycle	100%	
Service Life	> 10 million Times	
MTTR	<0.5 Hour	
MTBF	< 5 million Times	
Vehicle Detector	Optional	
IR Sensor	Optional	
Remote Control	Optional	
Working Temperature	-40°C--75°C	
Dimension	370*300*969mm	
N.W	70 kgs	



## Product Features

1. Employed advanced servo control technology, it is smooth, fast, stable, low noise, low power consumption when the arm is falling down. On the other hand, the motor keeps homothermal all the time and free of maintenance
2. Different from standard barriers, SJSPDE03/06 is NOT equipped with limit control and spring, thus no shock, no rebound when operating, also free of maintenance.
3. All operations of ETC SJSPDE03/06 are controlled by encoder with high precision. The barrier keeps operating perfectly all the time and free of debug
4. High reliability, industrial operation parts, outstanding quality.
5. Super wide voltage input: AC175V--300V.
6. Easy to change boom from right to left or from left to right just by changing the shaft direction