

## 新能源汽车永磁同步电机

## NEW ENERGY VEHICLE PERMANENT MAGNET SYNCHRONOUS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
  - ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
  - ▶ 转子位置传感器采用旋转变压器，抗干扰能力强；
  - ▶ 整体优化的防水防尘设计，达到IP67的防护等级。  
  - ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
  - ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
  - ▶ Rotary transformer adopted for the rotor position sensor to realize strong anti-interference performance;
  - ▶ Overall optimized water and dust resistant design with protection class of IP67.



技术规范

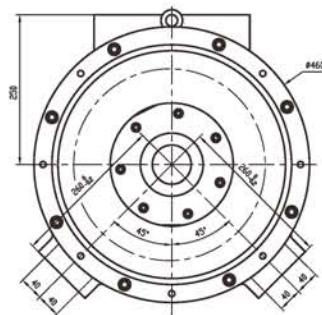
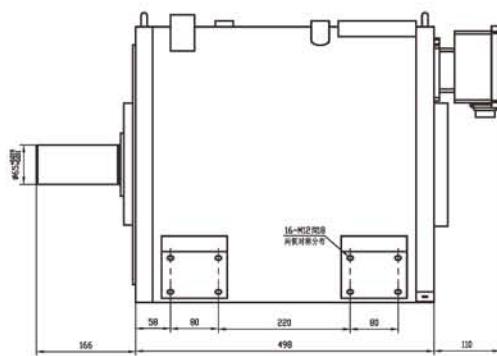
#### TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池电压 Battery Voltage	DC540V
额定功率 Rated Power	100kW
额定转矩 Rated Torque	830N.m
额定频率 Rated Frequency	57.5Hz
额定转速 Rated Speed	1150rpm
额定电流 Rated Current	200A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	360kg
速度传感器 Speed Sensor	旋转变压器Rotary transformer J52XU9734A
信号插座 Signal Socket	安费诺Rotary transformer RT001412PN03

电机型号 Model	400TZ-XS-100-11
工作制 Working System	S9
峰值功率 Power Peak	250kW
最大转矩 Max Torque	2800N.m
额定转速/反电势 Rated Rotational Speed Counter Electromotive Force	290V
最高转速 Max Speed	2800rpm
峰值电流 Current Peak	690A
极对数 Number of Pole-Pairs	3
冷却方式 Cooling Mode	水冷 Water cooling
防护等级 Protection class	IP67
电机转向 Rotation Direction	出轴端看逆时针方向为车辆前进方向 Viewing from the output shaft, the anticlockwise direction is the vehicle moving direction.
温度传感器 Temperature Sensor	NTC

## 安装及外型尺寸

#### OVERALL AND INSTALLATION DIMENSIONS



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- ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
- ▶ 转子位置传感器采用旋转变压器，抗干扰能力强；
- ▶ 整体优化的防水防尘设计，达到IP67的防护等级。
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
- ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
- ▶ Rotary transformer adopted for the rotor position sensor to realize strong anti-interference performance;
- ▶ Overall optimized water and dust resistant design with protection class of IP67.



### 技术规范

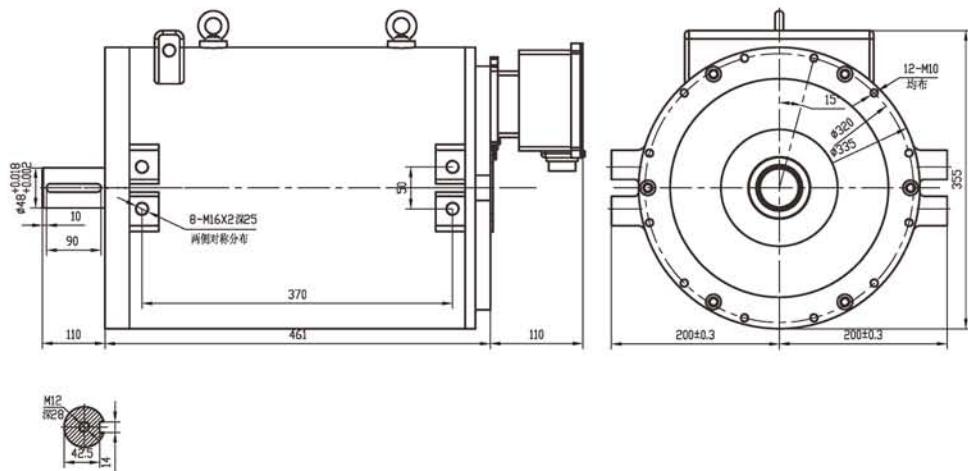
#### TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池电压 Battery Voltage	DC540V
额定功率 Rated Power	60kW
额定转矩 Rated Torque	358N.m
额定频率 Rated Frequency	106.6Hz
额定转速 Rated Speed	1600rpm
额定电流 Rated Current	110A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	170kg
速度传感器 Speed Sensor	旋转变压器Rotary transformer J52XU9734A
信号插座 Signal Socket	安费诺Rotary transformer RT001412PN03

电机型号 Model	290TZ-XS-60-16
工作制 Working System	S9
峰值功率 Power Peak	110kW
最大转矩 Max Torque	1200N.m
额定转速反电势 Rated Rotational Speed Counter Electromotive Force	299V
最高转速 Max Speed	3500rpm
峰值电流 Current Peak	380A
极对数 Number of Pole-Pairs	4
冷却方式 Cooling Mode	水冷 Water cooling
防护等级 Protection class	IP67
电机转向 Rotation Direction	出轴端看逆时针方向为车辆前进方向 Viewing from the output shaft, the anticlockwise direction is the vehicle moving direction.
温度传感器 Temperature Sensor	NTC

### 安装及外型尺寸

#### OVERALL AND INSTALLATION DIMENSIONS



## 新能源汽车永磁同步电机

NEW ENERGY VEHICLE PERMANENT MAGNET SYNCHRONOUS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
- ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
- ▶ 低反电动势设计，易于控制，提高系统安全性；
- ▶ 高峰值扭矩设计，针对物流车低速起步、爬坡应用优化。
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
- ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
- ▶ Low counter electromotive force design allowing easy control and improving the safety of the system;
- ▶ High peak torque design optimizing low-speed starting and climbing of logistics vehicles.



### 技术规范

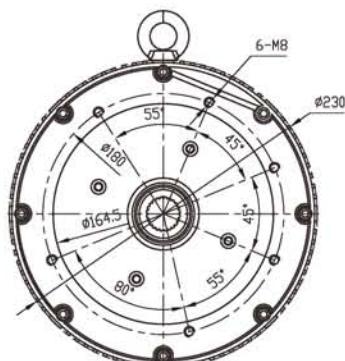
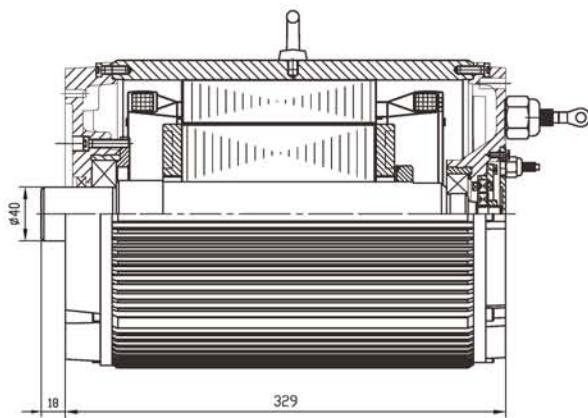
### TECHNICAL PARAMETER

电机类型 Type	永磁同步电机 Permanent magnet synchronous motor
电池电压 Battery Voltage	DC320V
额定功率 Rated Power	18kW
额定转矩 Rated Torque	57N.m
额定频率 Rated Frequency	200Hz
额定转速 Rated Speed	3000rpm
额定电流 Rated Current	60A
接线方式 Wiring Mode	Y
绝缘等级 Insulation Grade	H
重量 Weight	47kg
速度传感器 Speed Sensor	旋转变压器 Rotary transformer J52XU9734A

电机型号 Model	200TZ-X-18-30
工作制 Working System	S9
峰值功率 Power Peak	42kW
最大转矩 Max Torque	175N.m
额定转速反电势 Rated Speed Counter Electromotive Force	180V
最高转速 Max Speed	8000rpm
峰值电流 Current Peak	180A
极对数 Number of Pole-Pairs	4
冷却方式 Cooling Mode	自然冷却 Natural cooling
防护等级 Protection class	IP65
温度传感器 Temperature Sensor	NTC

### 安装及外型尺寸

### OVERALL AND INSTALLATION DIMENSIONS



## 永磁直流无刷电机

PERMANENT MAGNET DC BRUSHLESS MOTOR

- ▶ 采用高性能磁钢，提高了电机转矩密度和功率密度；
- ▶ 转子轻量化设计，降低电机重量和转子转动惯量；
- ▶ 速度范围宽，电机可以在低中高大速度范围内运行；
- ▶ 高峰值扭矩设计，低速起步、爬坡应用优化。
- ▶ High performance magnetic steel adopted to improve the torque density and power density of the motor;
- ▶ Lightweight rotor designed to reduce the weight of the motor and rotary inertia of the rotor;
- ▶ Wide speed range, motor can operate in low, medium, high and large speed range.
- ▶ High peak torque design, low-speed start, climbing application optimization.



### 技术规范

TECHNICAL PARAMETER

电机类型 Type	永磁直流无刷电机 Permanent Magnet DC Brushless Motor
电池电压 Battery Voltage	DC60V
额定功率 Rated Power	4/5/6kW
额定转矩 Rated Torque	12.7/15.9/19.1N.m
额定转速 Rated Speed	3000rpm

电机型号 Model	180TZ-H-4-30/180TZ-H-5-30/180TZ-H-6-30
工作制 Working System	S9
峰值功率 Power Peak	8/10/12kW
最大电流 Maximum Current	200A
最高转速 Max Speed	5000rpm

### 安装及外型尺寸

OVERALL AND INSTALLATION DIMENSIONS

