

SPECIFICATION FOR PMSM

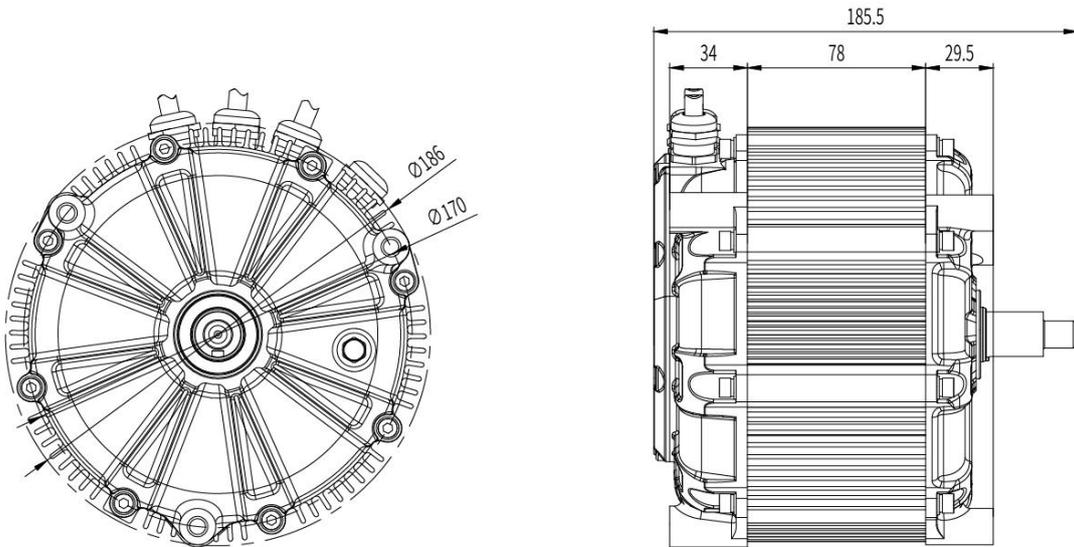
TZ155-HA07-T48



1. Product Model & Specification

TZ155-HA07-T48			
Rated Voltage	72 V	Cooling Method	Natural
Rated Power	5 kW	Peak Power	18 kW
Rated Speed	3,183 rpm	Peak Speed	8,000 rpm
Rated Torque	15 Nm	Peak Torque	65 Nm
Product Weight	10.5 kg	Mounting Dimensions	170 x 141.5 mm
Application	Two-wheel Electric Motorcycle, etc.		

2. Outline Dimension



3. Interface Function

3.1. Motor Installation and Matching Cable:

3.1.1. Power Cable Selection:

1. Three-phase cables: power cable-600V-UL3512-6AWG-3200/0.08TS-silicone rubber with insulation thickness of 1.5.

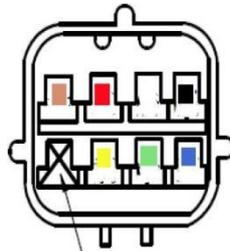
-Orange.

2. Wiring of encoder -7-core cable-black

3.1.2. Wiring Definition

No.	Color	Definition
U	Yellow	U-Phase of Three-Phase Motor
V	Green	V-Phase of Three-Phase Motor
W	Blue	W Phase of Three-Phase Motor
Encoder and Temperature Sensor Leads	Black	Wiring of Magnetic Encoder and Temperature Sensor

3.1.3. Terminal Model and Pin Definition



This hole is for waterproofing plug.

Connector model: Tyco AMP-174984-2, plug model: Tyco AMP-2822393-1, temperature sensor model: KTY84-130

Terminal No.	Function
Brown	PWM Signal Leads

Red	+5V
White	Temperature Sensor Signal
Black	GND
Yellow	A Signal
Green	B Signal
Blue	Z Signal

4. Other

4.1. Design Standard

A. The theoretical weight of the motor is 10.5 kg; Cogging torque is 1.5N·m (test before installing oil seal); the radial runout is ≤ 0.035 mm, the axial clearance is 0.3mm, and the noise of the motor during no-load operation is less than 65dB.

B. Duty: S9 (working system with non-periodic changes in load and rotating speed), the external temperature when the motor is working is -25°C-65°C。

C. Other performance requirements shall comply with relevant requirements of QC/T 792-2007.

4.2 Safety Standard

The limit requirements of prohibited substances and toxic and harmful substances meet the latest edition of GB/T 30512.