

SANTROLL[®]

天津市松正电动科技有限公司
Tianjin Santroll Electric Technology Co., Ltd.

SPECIFICATION FOR MOTOR

SZ9105-100-EMSE



I. APPLICATION



Electric Motorcycles



ATVs

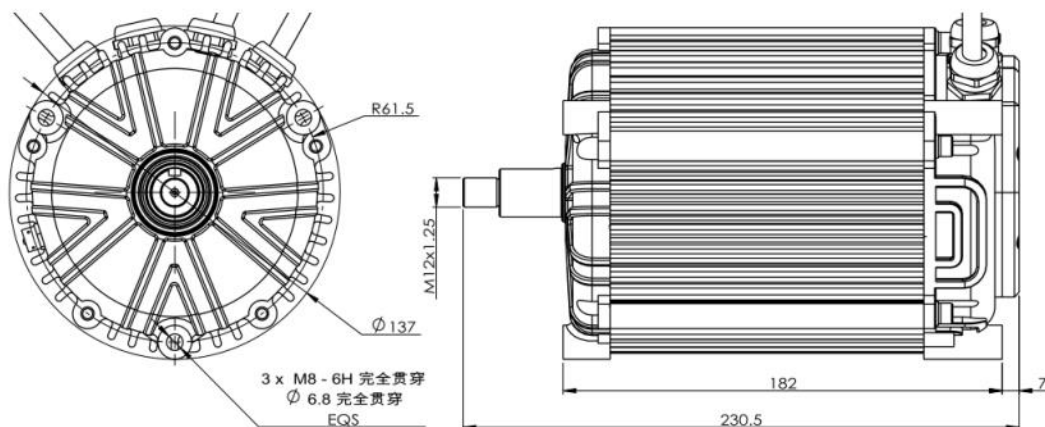


Electric Tricycles

II. PARAMETERS

MODEL: SZ9105-100-EMSE			
RATED VOLTAGE	72 V	COOLING METHOD	AIR COOLING
RATED POWER	5KW	MAX. POWER	18 kW
RATED RPM	4000 rpm	MAX. RPM	10000 rpm
RATED TORQUE	15 Nm	MAX. TORQUE	65 Nm
WEIGHT	9.5 kg	DIMENSION	137*230.5 mm
APPLICATION	Electric Vehicle, ATV, etc.		

III. APPEARANCE



IV. CONNECTOR DEFINITION

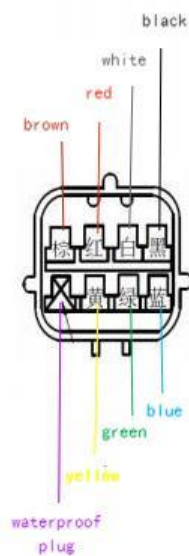
1. CABLE

- 1) Phase line: CABLE—600V—UL3512-6AWG—3200/0.08TS-Insulation thickness 1.5 Silicone Rubber—Orange
- 2) Encoder cable-7 pin cable-black

2. CABLE DEFINITION

PIN	COLOUR	DEFINITION
U	YELLOW	U Phase line
V	GREEN	V Phase line
W	BLUE	W Phase line
Encoder & temperature sensor cable	BLACK	Encoder & temperature sensor cable

3. PIN DEFINITION



PIN	DEFINITION
BROWN	PWM Signal
RED	+5V
WHITE	Temperature sensor
BLACK	GND
YELLOW	A signal
GREEN	B signal
BLUE	Z signal

Connector model: AMP-174984-2

Plug-in connector model: AMP-2822393-1

Temperature sensor model: KTY84-130

V. OTHER INFORMATION

1. DEVELOPMENT STANDARD

- 1) Theoretical weight of the motor is 9.5kg; Tooth space torque: 0.59Nm (test before installing oil seal) ; Circle run-out $\leq 0.035\text{mm}$; axial clearance 0.3mm;
Noise level is less than 65dB when running with no load.
- 2) Duty type: S9(load and speed vary non-periodically); Environmental working temperature: -40℃-50℃
- 3) Other performance of the motor should apply to standard: QC/T 792-2007

2. SAFETY STANDARD

The limits of prohibited and restricted substances and toxic and hazardous substances should be in accordance with the latest version of GB/T 30512.