OEM AUTOMATIC

OEM Automatic Ltd
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

SIBONI
MOTORS AND SOLUTIONS

SIBONI - DC TRACTION MOTOR 114MM

TRA DC Series, 114mm high torque EV motor

75PK-020

- 12 - 24Vdc
- Up to 2.6Nm
- Up to 1800rpm
- Ideal for electric vehicles
- IEC flange

PRODUCT DESCRIPTION

Siboni has developed this range of DC motors specifically for electric traction applications. The design has been optimised to maximise the electrical characteristics and performance, using premium grade materials and high precision machining, the motors sit at the top of their market sector and offer:

- **High efficiency**
- **High starting torque**
- **High torque linearity**
- **High nominal torque** (PK range >2.6Nm, PX range >3.7Nm, PQ range >6.0Nm)

These characteristics, alongside an optimised inertia ratio, make these motors highly suited to electric vehicles by providing performance and autonomy. However, they can also be successfully used in other application areas where high torque and accurate performance characteristics are required
For ease of mounting multiple flange options are available with B5 and B14 typically the most widely used, these allowing for a quick fitting and precise coupling.
The motor range is IP44 as standard and insulation class F, they are all manufactured and tested in accordance with IEC standards.

TECHNICAL FEATURES

- Traction motor with output of 200-1300W
- Permanent magnet stator made from sintered ferrite
- High inertia ratio particularly suited for electric vehicles
- Protection grade IP44

TYPICAL APPLICATIONS

- **Funfair** - carousels, bumper cars
- **Gym** - treadmills
- **Motorcycles** - motor scooters and electric bikes
- **Care Aid** - electric wheelchairs and impaired mobility products
- **Automation** - automatic doors and gates
- **Railways** - level crossings, railroad switches

TECHNICAL DATA

Axial force	140 N

Current max	69 A
Front size	140 mm
IP class	IP44
Length	180 mm
Max. torque	7.8
Motor with gear	No
Nominal current	23 A
Nominal speed	1700 rpm
Nominal torque	2.6
Power	463 W
Shaft diameter	11 mm
Supply voltage	24 V DC
Torque constant	0.11 Nm/A