

## SIBONI - DC TRACTION MOTOR 113MM

TRA DC Series, 113mm high torque EV motor

75PF-047

- 12 - 24Vdc
- Up to 2.8Nm
- Up to 4000rpm
- 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

110 N

<b>Current max</b>	84 A
<b>Front size</b>	113 mm
<b>IP class</b>	IP44
<b>Length</b>	150 mm
<b>Max. torque</b>	4,5 Nm
<b>Motor with gear</b>	No
<b>Nominal current</b>	28 A
<b>Nominal speed</b>	4000 rpm
<b>Nominal torque</b>	1,5 Nm
<b>Power</b>	628 W
<b>Shaft diameter</b>	12,5 mm
<b>Supply voltage</b>	24 V DC
<b>Torque constant</b>	0,05 Nm/A