

## SIBONI - NEODYMIUM DC MOTOR

NEO DC Series - rare earth magnet brushed DC motor

N17L-823

- 24 - 90Vdc
- Up to 2.74Nm
- Nominal output 23 - 861W
- 37 - 108mm diameters
- 25% more power than equivalent sized ferrite



### PRODUCT DESCRIPTION

This brushed DC permanent **rare earth magnet motor** series has been developed to offer the **highest specific power available** in this area of the motor market.

Siboni uses 3D calculation tools to guarantee optimum performance from this range of rare earth magnet motors, their vast experience and expertise in the design and manufacture of high-end niche DC motors ensures the end customer receives a product which offers value through delivering superb performance along with longevity. Siboni NEO DC neodymium motors offer:

- **Optimum specific power for physical size**
- **High level of constant torque**
- **Low inertia**

### TECHNICAL FEATURES

- Permanent-magnet DC servomotor
- Stator with permanent neodymium magnet stator which is secured with adhesive and protected by a stainless-steel sleeve.
- Motor insulation and winding in class F (DIN 0530 standard)
- High quality front-locked life-lubricated bearings
- IP 44 protection grade

### 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

1191_Ambient temperature (°C)	0-40
1651_Moment of inertia (kg/cm <sup>2</sup> )	0.0000032
Axial load max	50 N
Current max	8.1 A
Front size	37 mm
IP class	IP44

<b>Length</b>	93.5 mm
<b>Max radial load</b>	90 N
<b>Nominal current</b>	2.6 A
<b>Nominal speed</b>	4000 rpm
<b>Nominal torque</b>	0.09
<b>Power</b>	38 W
<b>Shaft diameter</b>	5 mm
<b>Starting torque</b>	0.33
<b>Supply voltage</b>	24 V DC
<b>Weight</b>	0.58 kg