

Simplex Motion Speed series

Standalone BLDC motor with speed control.

- Speed 0 - 6000 rpm
- Low speed mode 0-400 rpm
- Torque regulation
- Encoder signal output
- Set direction of rotation
- Excellent Power to Size ratio

The Simplex Motion Speed series is a simple way to achieve a speed regulated motor application.

Speed

The speed of the motor is controlled using an analog input voltage. The built in control system allows for the speed regulation to start at 0 rpm.

Low Speed

The motor has a low speed mode, allowing for more precise control of speeds between 0 – 400 rpm.

Torque

Maximum torque is adjustable using an analog input voltage.

Direction

Set the direction of rotation.

Encoder

The motor offers a quadrature encoder output signal of 1024 PPR.



Alarm

An alarm signal makes it possible to monitor the status of the motor.

All inclusive

No extra control electronics are required, all the necessary functions are integrated.

Compact

The compact design of the models keeps both size and weight down in the total design.

Pin	Function
1	Speed regulation 0 - 3,3 or 5V
2	Start/Stop & Torque limitation 0 - 3,3 or 5V
3	Rotation direction
4	Alarm signal
5	Encoder A
6	Encoder B
7	Speed High / Low

Specifications	SC010-speed	SC020-speed	SC040-speed	SM100-speed	SH100-speed	SH200-speed
Speed	0-6000 rpm	0-6000 rpm	0-6000 rpm	0-6000 rpm	0-6000 rpm	0-6000 rpm
Speed nom.	4000 rpm	4000 rpm	4000 rpm	3000 rpm	3000 rpm	4000 rpm
Torque	0 - 200 mNm	0 - 400 mNm	0 - 800 mNm	0 - 2 Nm	0 - 2 Nm	0 - 4 Nm
Torque nom.	60 mNm	120 mNm	240 mNm	0,32 Nm	0,51 Nm	0,72 Nm
Power nom.	25 W	50 W	120 W	100 W	160 W	300 W
Voltage	12 V	12 - 24 V	12 - 24 V	12 - 24 V	12 - 24 V	24 - 48 V
Control Voltage	0 - 3,3 V	0 - 3,3V	0 - 3,3V	0 - 5V	0 - 5V	0 - 5V