

# 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	SCM010	SCM020	SCM040	SCM100-E	SCM100	SCM200
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 (nom.)	12 - 48V (12V)	12 - 48V (24V)	12 - 48V (24V)	12 - 24V (24V)	12 - 48V (48V)	24 - 48V (48V)
Control Voltage	0 - 3,3V	0 - 3,3V	0 - 3,3V	0 - 5V	0 - 5V	0 - 5V