

# Weber Lite

## External BLDC Driver

### Introduction

The Mechtex brand external drivers are available in Sensor based and sensor less both. Our drivers are compact, easy to use, one stop solution for all your commercial and industrial grade motors.

### Competitive Intelligence

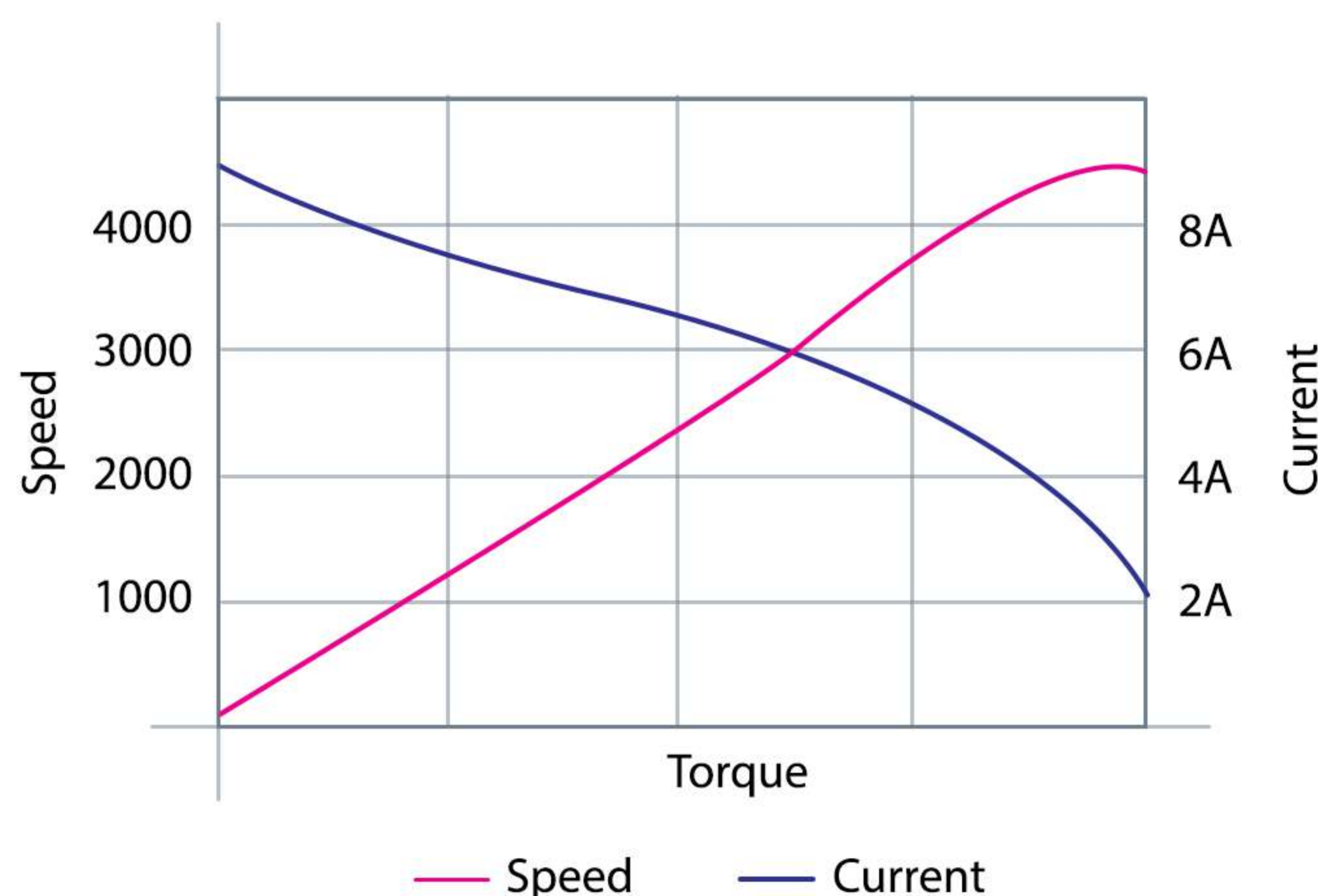
- Sensor based design
- Custom voltage and current configurations
- Trapezoidal speed control using PWM
- Protective features such as Over current, Over voltage, Under voltage protection, Reverse polarity.
- IEC 61000-4-2 compliance on request.



### Specifications

Parameters	Value
Rated Output Power	100W
Max Output Power	200W
Voltage Range	9V to 30V
Max Current	Up to 8A
Commutation Mode	120° Trapezoidal
Speed Control	PWM
PWM Frequency	Max 200 kHz
Max Efficiency	78 %

### Typical Characteristics



\* The above plot varies as per the motor characteristics

### Electrical Connections

#### Control Signals

Pin #	Function	Description
1	FLT	High at fault, Low at Normal
2	PWM	Speed control input, 1kHz - 200kHz VILMAX = 0.8V, VIHMIN = 1.6V
3	BRK	High / Open ▶ Run, Low ▶ Stop, Default = Open
4	FGO	Rotation Speed output = (3 X No of Poles) Pulses per Rotation
5	DIR	High / Open ▶ CW, Low ▶ CCW, Default = Open

#### Hall Sensor

Pin #	Function
1	VCC
2	Hall U
3	Hall V
4	Hall W
5	GND

#### Power

Pin #	Function
1	VM
2	GND

#### Phase Output

Pin #	Function
1	U
2	V
3	W

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## Compatible With Motors



## Connection Diagram

