DB Series
Brushless DC Motor Drivers
General catalogue

DB Series is a family of brushless DC motor control s designed to provide commutated power and variable speed control for standard 3 phase brushless DC motors. The controls operate in a basic open loop or closed loop configuration with either 60˚ or 120˚ brushless DC motors. Compact, economical, and efficient, the DB Series is ideal where high torque, high speed and quiet operation are needed.

The DB Series controls can also be provided with a pluggable connector and fixed settings for OEM applications.

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DB Series BRUSHLESS DC MOTOR DRIVER

MODEL NO. DESIGNATIONS

MODEL – VOLTAGE – CURRENT (C)

- VOLTAGE: Input voltage — 10-54 VDC, 11-40 VDC
- CURRENT: Current — 5 Amps, 20 Amps
- (C): (Closed loop)

Example: DB-11.40-5C

DIMENSIONAL SPECIFICATIONS

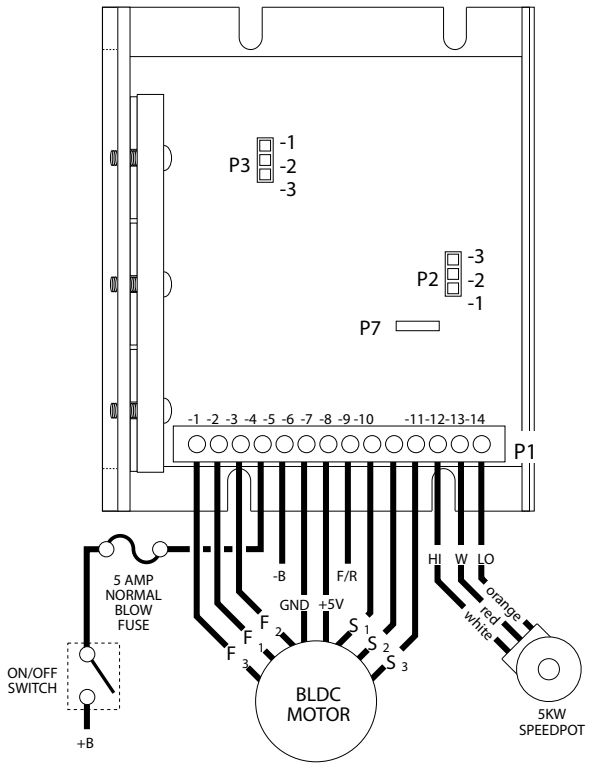
Model	Width (mm)	Length (mm)	Depth (mm)	Weight (g)
DB-10.54-20	92.0	177.8	50.8	453
DB-10.54-20C	92.0	177.8	50.8	453
DB-11.40-5C	92.1	108.0	33.0	170

SPECIFICATIONS

	DB-10.54-20	DB-10.54-20C	DB-11.40-5C
Load Current (continuous)	20 Amps		5 Amps
Voltage	10-54 VDC Input [2]		11-40 VDC Input [1]
Speed Adjustment	Potentiometer or 0-6.2 VDC (Analog input signal)		Potentiometer or 0-6.2 VDC **(Analog input signal)**
Overload Capacity	200% for 30 seconds		150% for 30 seconds
Speed Range	50:1		
Current Limit	Adjustable Trimpot		
Acceleration	Fixed, fast start		
Deceleration	Fixed		
Maximum Speed	Adjustable - 60-100% of max		
Minimum Speed	Adjustable - 0–30% of max		
Input/Output Connections	Terminal Block		
Speed Regulation	Open loop	Closed loop	Closed loop
Operating temperature	-10° C to +45° C		

1 - Field selectable voltage range 11-14 VDC input or 18-40 VDC input.
2 - Field selectable voltage range 10-13.5 VDC input or 18-54 VDC input.

WIRING DIAGRAM



FEATURES

- Open loop or integrated closed loop models
- Quiet 15KHz. PWM switching frequency
- MOSFET power devices
- Directional control - forward/reverse
- Internal +6.2, VDC 20 mA supply for motor Hall-Effect sensors
- 5K ohm speedpot w/leads, knob and dial for remote mounting
- Anodized chassis mount heatsink

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