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Item # 910-9522-012, BC24-24VDC Variable Speed Battery Operated Brushless DC Motor Drive 20A



BC24-24VDC Variable Speed Battery Operated Brushless DC Motor Drive 20A

The BC24 is a 3-phase, single direction variable speed brushless DC motor controller designed for 20 A continuous operation with brushless motors containing hall-feedback devices. This rugged design is rated and tested for tough automotive applications.

Ideal for HVAC fan or pump applications. Single-speed operation tightly regulates motor RPM. 20-30 V operating input voltage range. 20 amps continuous rated output. Fixed acceleration and deceleration is factory adjustable. Current limit with over-current shutdown. Reverse option. Available fully urethane-encapsulated for tough environments. Normally supplied open chassis. Flying-lead connections to motor and batteries. Space saving compact footprint.

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FEATURES

- DC Input Voltage Operation - 11-27 VDC
- Output Voltage - 0 - 24 VDC nominal
- Output motor current - 15-20 Amps continuous depending upon mounting
- Pulse Width Modulated 16 kHz output
- Duty Cycle - Continuous
- Input command signal = 0 - 5 VDC or 3 wire potentiometer speed input for manual control via external potentiometer or DC voltage input.
- DC power Input Power Reverse Polarity Protection
- Input transient protection against Typical Automotive transients as per SAE tables
- Signal Input Reverse polarity and over-voltage protection
- Adjustable Acceleration - Factory set
- Adjustable Deceleration - Factory set
- Flying lead Input/Output Connections
- Controller can be Fully Epoxy encapsulated for tough environments
- - 40 Deg. C to + 70 Deg. C ambient temperature operating range
- Current Limit @ set at Factory
- Current time-out feature - When operated at the current limit set-point, the Controller will shut down after a predetermined amount of time - Toggle power to reset

SPECIFICATIONS

Input Voltage Operation (DC)	11 to 27 V
Nominal Output Voltage	0 to 24 V
Output Motor Current	15 to 20 A
Output Pulse Width Modulated	16 kHz
Duty Cycle	Continuous
Ambient Temperature Operating Range	-40 to +70 °C