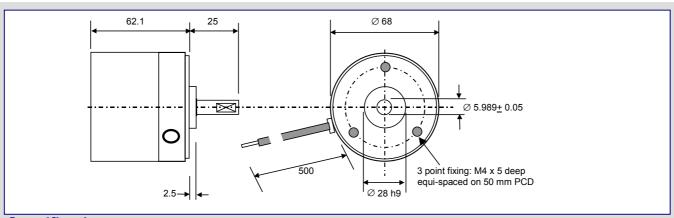
Description

The BLDC 58 is a variable speed 24 Vdc brushless motor with integrated drive electronics providing up to 50 watts continuous output power and a variable speed proportional to a 0-5 V control signal. The unit provides a compact solution to a variety of light industrial applications such as conveyor drives, paper feed and pump drives. Scientific applications include stirring equipment, peristaltic pumps, mixing machines, as well as any variable speed application that requires long maintenance free life and operating speeds from 100 to 3000 rpm. The motor's design incorporates an external rotor and magnet system which provides particularly smooth running, high grade bearings and drive electronics, all of which are housed in an enclosure suitable for use up to IP55 operating conditions. The inclusion of the drive electronics within the motor greatly simplifies the use of the motor as well as reducing overall system cost.



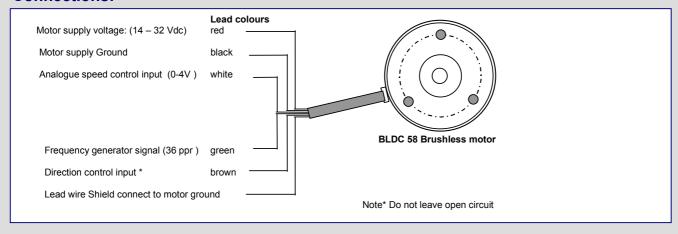
Dimensions: mm



Specification

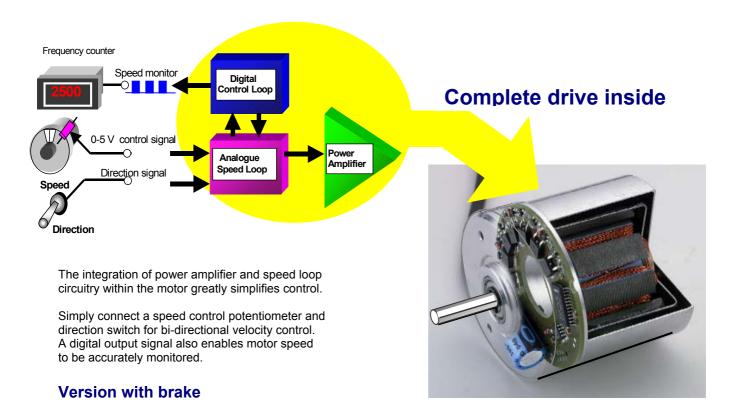
| opeomeation | | | | |
|--------------------------------------|-------------------|-----------------|--------------------------|-----------------|
| Order Code | | BLDC58-35L | BLDC58-35LEB | BLDC58-50L |
| Continuous output power | Watts | 35 | 35 | 50 |
| Internal electronic control circuit | | Velocity loop | Velocity loop with brake | Velocity loop |
| Maximum speed | rpm | 3,650 | 3,650 | 3,650 |
| Minimum regulated speed | rpm | <u><</u> 100 | 1000 | <u><</u> 100 |
| Maximum speed @ rated torque | rpm | 3,000 | 3,000 | 3,000 |
| Rated Torque | Nm | 0.11 | 0.11 | 0.17 |
| Braking torque | Nm | N/ A | 0.16 | N/A |
| Rotor inertia | Kgcm ² | 1.2 | 1.2 | 1.2 |
| Motor Supply voltage | Vdc | 24 | 24 | 24 |
| Motor supply current | Amps | 1.9 | 1.9 | 2.9 |
| Analogue speed control signal | V/1000 rpm | 1.0 | Approximately 0.9 | 1.0 |
| Digital output speed monitor | ppr | 36 | 36 | 36 |
| Internal Over-temperature protection | | standard | standard | standard |
| Bearing type | | Ball | Ball | Ball |

Connections:



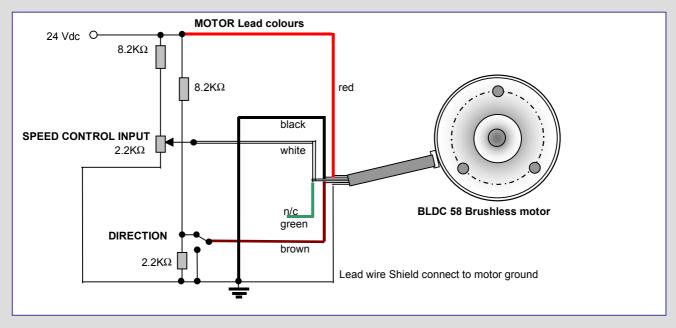


BLDC 58: Integrated electronics for complete drive solution



When the control signal input level is ≤ 0.5 V the internal electronics brake is activated to achieve a rapid stop. The brake circuit is not active when the motor is in a stationary condition. However the de-energised detent torque is usually sufficient to retain the position of unbalanced loads when the motor drives through a gear reduction. When the control signal is > 0.5V but < 0.9V the motor is disabled, thereby creating a deadband for control purposes

BLDC58 Typical connections for simple speed control





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