LIN ENGINEERING
MOTOR SPECIALISTS IN MOTION
A MOONS' COMPANY

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## This Driver is Designed to Operate:



| | |
|---|---|
| Motor Part Number | BL34E27-02 |

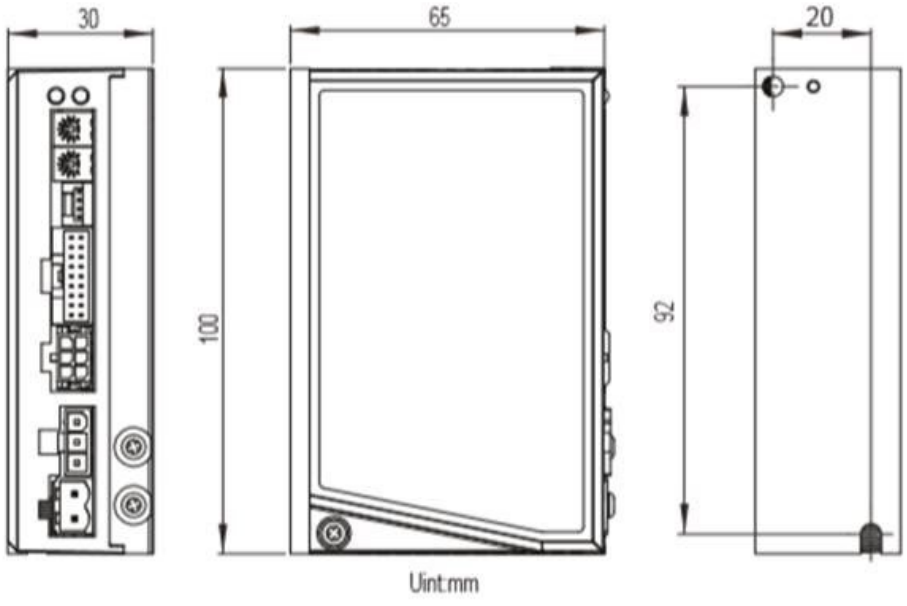
## SPECIFICATIONS

| | |
|---|---|
| Part Number | **BLDC100-BL34E27-02** |
| Supply Voltage | 24 - 48 VDC |
| Output Current | 0.1 - 10.0 A/Phase |
| Communication Port | RS-232 |
| Status LEDs | 1 Red, 1 Green |
| Digital Inputs | 8 |
| Digital Outputs | 2 |
| Analog Inputs | 1 |
| Under Voltage Protection | 8.5 V |
| Input Signals Voltage | 5 - 28 V |
| Speed Range | 150 - 4500 RPM |
| Rated Velocity Error | +/- 0.5 % |
| Weight | 6 oz |

## OPERATING CONDITIONS

| | |
|---|---|
| Ambient Temperature | 0 to 40 °C |
| Storage Temperature | -10 to 70 °C |
| Humidity | 90% (Non-Condensing) |

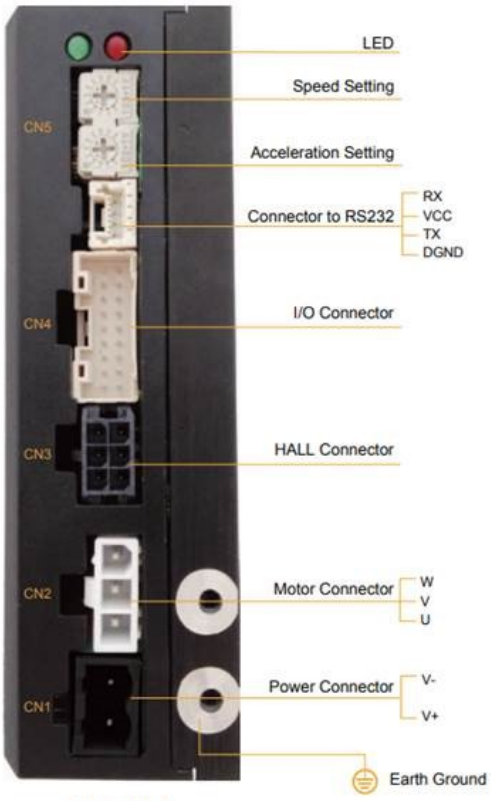
## DIMENSIONS



## INPUT/OUTPUT SPECIFICATION

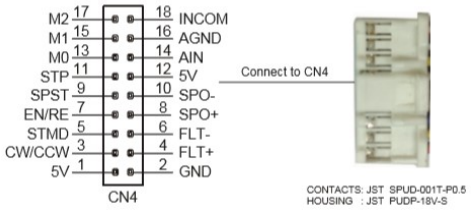
| PIN NUM | SIGNAL TYPE | SIGNAL NAME | | FUNCTION |
|---|---|---|---|---|
| | | BASIC | GENERAL | BASIC |
| 1 | POWER SUPPLY | +5V USER | | The drive provides users with up to 100mA +5V supply |
| 2 | | GND | | External control signal GND |
| 18 | | INCOM | | External opto-coupler power input (common anode or common cathode connection can dial to select) |
| 3 | INPUT | CW/CCW | X1 | Clockwise/Counter Clockwise Select |
| 5 | | STMD (STOP MODE) | X2 | Stop mode choice input |
| 7 | | EN/RE (Enable/Reset) | X3 | Motor enable/disable. It can be used for alarm reset as well. |
| 9 | | SPST (SPEED-SET) | X4 | Internal/external speed-set choice |
| 11 | | STOP | X5 | The electromagnetic brake operation is selected when the motor is stopped. |
| 13 | | M0 | X6 | For multi-speed operation, the M0, M1, M2 signals are used in combination. |
| 15 | | M1 | X7 | |
| 17 | | M2 | X8 | |
| 12 | ANALOG INPUT | Analog VCC | - | Using external speed potentiometer setting speed |
| 14 | | Analog In | - | |
| 16 | | Analog GND | - | |
| 4 | OUTPUT | Fault+ | Y1+ | Fault output |
| 6 | | Fault- | Y1- | |
| 8 | | Speed Out+ | Y2+ | 6 pulses are output per each rotation of the motor output shaft. It can be changed by BLD configurator. |
| 10 | | Speed Out- | Y2- | |
| - | | MOVE | - | This signal is output during motor rotation. |
| - | | VA | - | Output a signal as speed achieved |
| - | | Fault2 | - | This signal is output when the overload warning level is exceed when the overload warning function is set to enable. In addition, also outputs if an overload alarm is generated even when the overload warning function is set to disable (normally closed). |
| - | | Warning | - | This signal is output if a warning is generated (overload warning function is activated)While, it turns OFF if the warning is released. |
| - | | TLC | - | This signal is output when the motor output-torque reaches the torque limiting value. |
| - | | IDLE | - | Configuring as general output |

## INTERFACE LAYOUT




BLD5/10-A

## I/O CONNECTOR DIAGRAM





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