



SED

Special Electronic Design

NXE-BL

COMPACT BLDC MOTOR CONTROLLER

NXE-BL is a compact controller for BLDC motors. Designed for small electric vehicles and industrial applications, provides several onboard I/Os that can be commanded using electromechanical contacts, digital keyboards or CANbus.

An advanced hardware architecture provides compliance to ISO EN-13849 resulting in a more safe and efficient machine control.



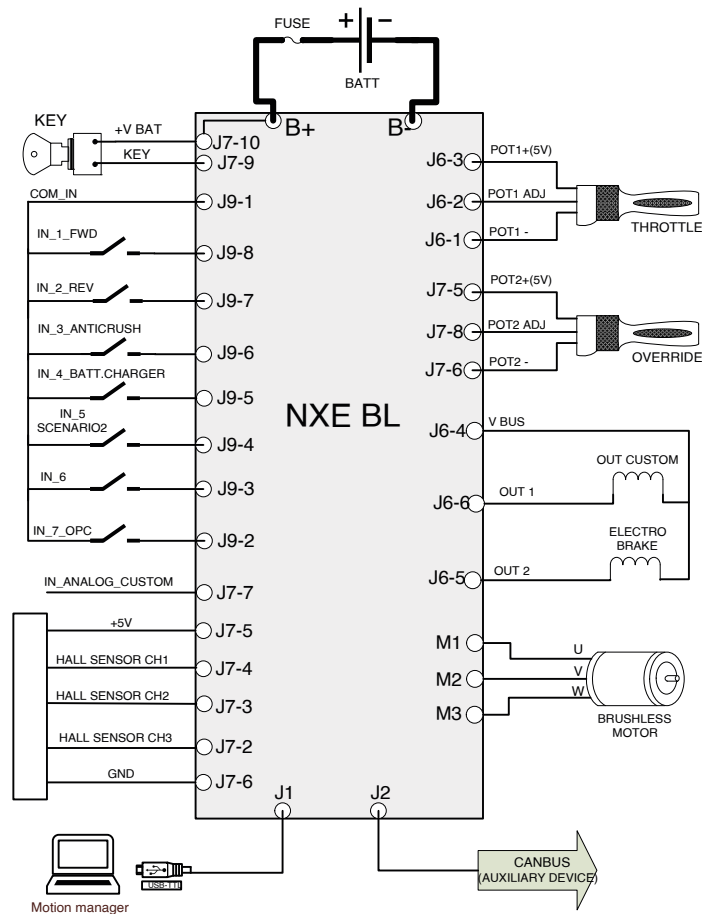
MAIN FEATURES

- Compatible with CANbus, MODbus TTL or Electromechanical control systems
- Electromagnetic Brake Output
- Anticrush
- Charger inhibit
- Operator Presence Control
- Safety stop function and Integrated safety procedures prevent wrong machine usage by the users
- Automatic speed correction and anti roll back algorithms
- Hall effect sensor input (3) or Encoder sensor
- Intelligent motors and board monitoring system ensure protection from under/over voltage, short-circuit, I2T, polarity inversions, controller over-temperature
- Integrated automotive grade relay ensure superior endurance or external relè output
- Programmable with Motion Manager PC and APP to unlock endless customizations

MODEL	VOLTAGE	I_n (60°)	I_{max} (Phase)	INPUTs	OUTPUTS
NXE-BL	24 V	30 A	90 A	1 Analog 7 Digital	1 x 1A Max 1 x 5A Max
NXE-BL	36-48 V	25 A	80A	1 Analog 7 Digital	1 x 1A Max 1 x 5A Max

SPECIFICATIONS SUBJECT TO CHANGE | VALUES REFER TO CONTROLLER DISSIPATED ON METAL $T_a=25^{\circ}\text{C}$ | CURRENT INDICATED AT MAX SPEED

WIRING DIAGRAM



CONNECTION DIAGRAM SHOWS A TYPICAL APPLICATION. DIFFERENT I/O SETUP AND LOGIC CAN BE PROVIDED ON REQUEST

DIMENSIONS (mm)

