

AC Induction Motor Controller

Robust AC Motor Controller for Low Voltage Applications



Model KCCA0406

The Nidec Drive System **KCCA0406** LVAC Controller provides motor and vehicle control for 24-60 volt battery powered vehicles using an induction motor. It provides fully programmable control of the traction motor with 5 programmable inputs for active low or high voltages. The controller supports most accelerator inputs. Suitable for golf cart, boat, utility vehicle, walk-behind or rider floor care applications, and work platforms.

Specifications

Operation Voltage: 24-60 Vac

Traction Motor: 2 Min. RMS Current Rate 60v – 250A
2 Min. RMS Current Rate 24v – 275A
60 Min. RMS Current Rate 120A

Aux Output #1: Max Current 3A, Con. Current 1A

Aux Output #2: Max Current 3A, Con. Current 1A

Five Digital Inputs: 3-State Inputs

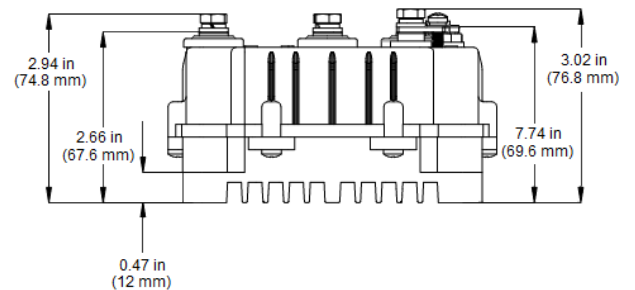
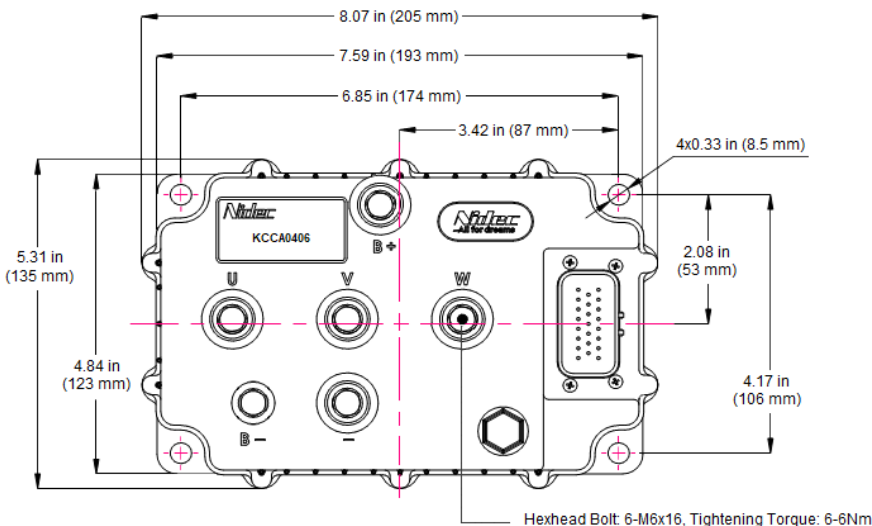
Accelerator Inputs: 5V, 3 Wire 5K, 2 Wire 5K

Net Weight: 3.75 lb. (1.7kg)

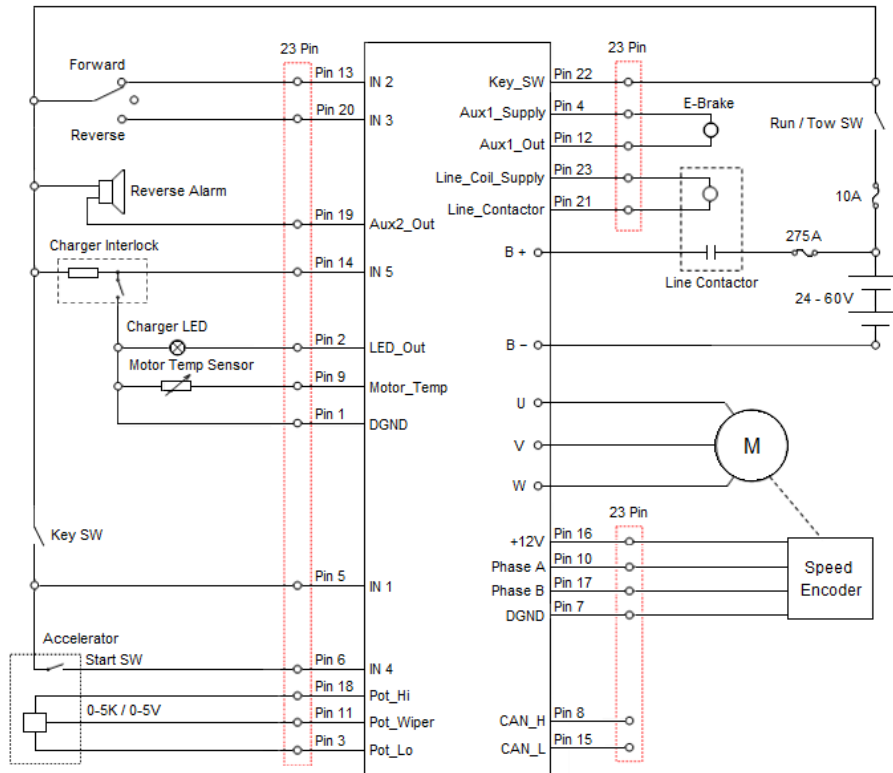
Features

- High efficiency, high performance field oriented motor control algorithms
- Advanced pulse width space vector modulation technology
- Gradual motor performance reduction for low battery, high battery, high controller temperature, and high motor temperature
- High speed over current protection
- High speed over voltage protection
- Aux output over current protection
- CAN Bus communication
- User programmable to match application requirements and performance
- Upload and download parameter settings, upgrade firmware, and real-time variables

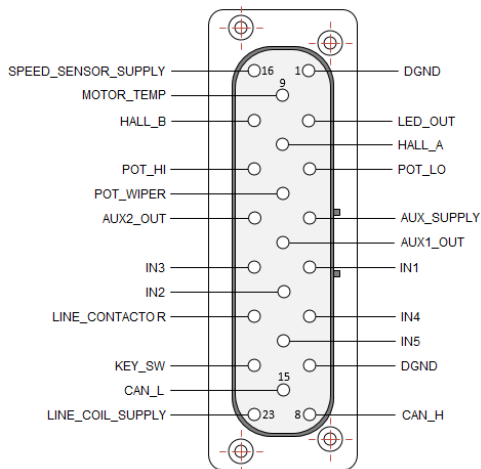
Dimensions



Typical Wiring



Connector Wiring



System Accessories

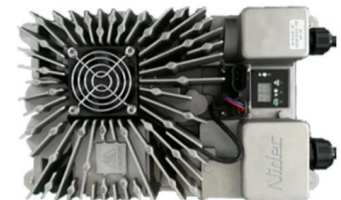
Battery Monitor



Touch Screen Instrument Panel



Battery Charger



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