AC Induction Motor Controller

Robust AC Motor Controller for Low Voltage Applications

Model KCCA0289

The Nidec Drive System **KCCA0289** LVAC Controller provides motor and vehicle control for 36-60 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.

Imperial Electric®

Specifications

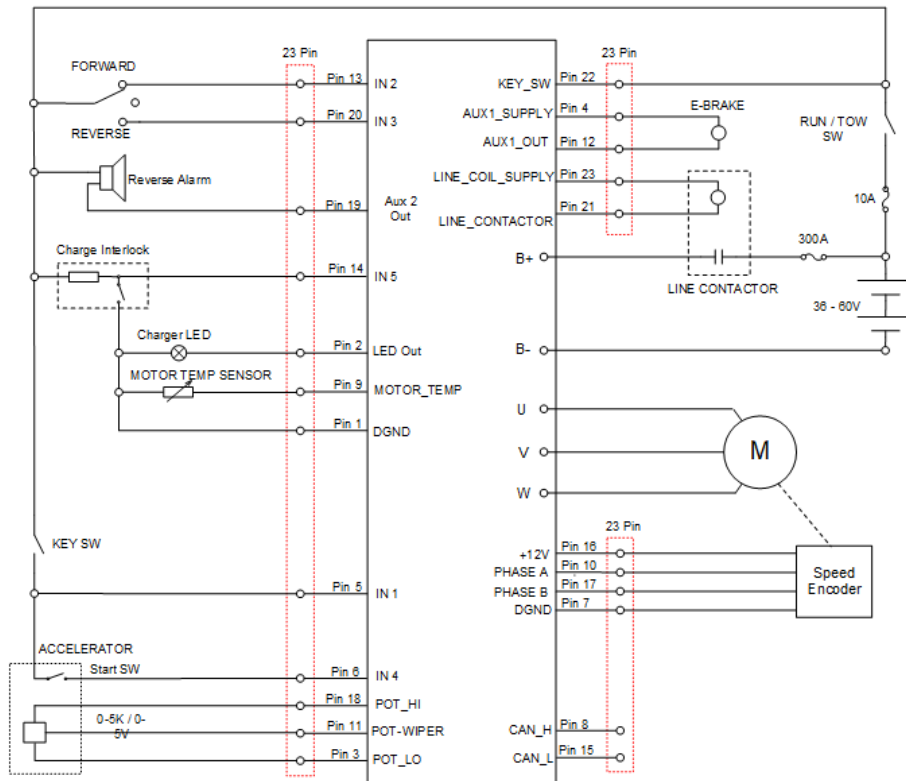|	
Operation Voltage:	36-60 Vdc
Traction Motor:	2 Min. RMS Current Rate 60v – 275A 2 Min. RMS Current Rate 36v – 300A 60 Min. RMS Current Rate 120A
Aux Output #1:	Max Current 3A, Con. Current 1A
Aux Output #2:	Max Current 3A, Con. Current 1A
Five Digital Inputs:	3-State Inputs
Accelerator Inputs:	5V, 3 Wire 5K, 2 Wire 5K
Net Weight:	3.75 lb. (1.7kg)

Features

- Field oriented control
- Space vector modulation
- 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
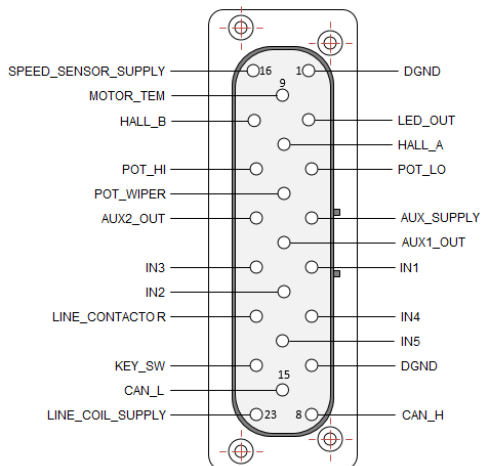
Dimensions

Hexhead Bolt: 6-M6x16, Tightening Torque: 6-6Nm

Nidec
All for dreams
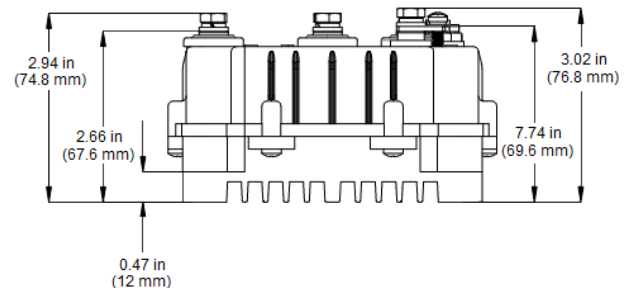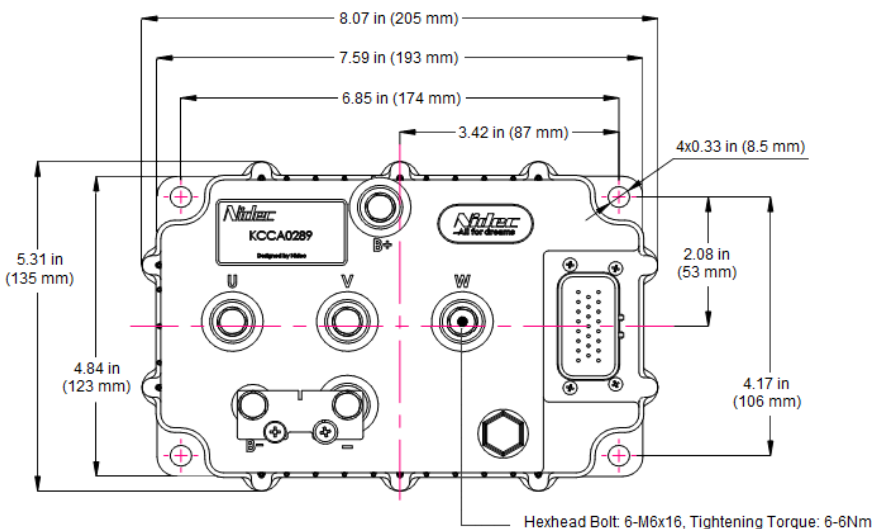
Typical Wiring

Connector Wiring

Pin 1

Pin 8

System Accessories

Battery Monitor

Touch Screen Instrument Panel

Battery Charger
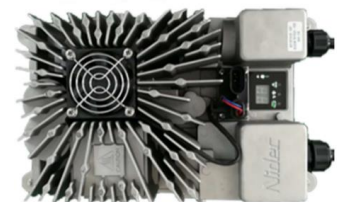
http://nidec-ise.com/companies/index.php

KCDS0289 Rev B

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