

ELECTRIC STEERING CONTROLLER



CURTIS

MODEL 1222

FEATURES

Advanced Design and Functionality

- High-frequency, silent operation from 0-200 Hz.
- 24V – 80V battery systems, 70 A RMS 2 minute current ratings.
- Internal closed-loop speed and position control modes allow for optimized performance.
- Wheel position potentiometer input for position control, end-stop protection and auto-center features.
- CANopen compatible interface for communication.

Versatile Steering Command Input provides Interface for:

- Linear potentiometer or hall-effect sensors.
- Quadrature encoder signals as found on optical and magnetical encoders.
- Stepper motor used as tachometer-generator.
- Steering command via CAN bus.

Easy to Install and Maintain

- Simple wiring and installation.
- Internal LEDs provides diagnostic information by code flashing.
- Fully compatible with Curtis 1311 Handheld Programmer and 1314 PC Programming Station for testing, diagnostics and parametric adjustments.
- Diagnostic faults are logged and the history is viewable through CURTIS model 1311 Handheld Programmer and 1314 Programming Station.

Robust Safety and Reliability

- Safe operation due to redundant micro controller system for supervision and fault detection.
- Meets EN954-1 cat. 3.
- External fault output line can indicate presence of a system error and shutdown main contactor and EM brake.
- Insulated Metal Substrate power base provides superior heat transfer for increased reliability.
- Reverse polarity protection on battery connections and short circuit protection on all output drivers.
- Thermal cutback, warning, and automatic shutdown provide protection to motor and controller.
- Rugged sealed housing and connectors meet IP65 environmental sealing standards for use in harsh environments.



DESCRIPTION

The Model 1222 electric steering controller provides responsive and intuitive control of AC induction gear motors that are used to steer a vehicle. It interfaces directly with the steering command input, wheel position feedback, and AC motor to create a seamless drive-by-wire system.

APPLICATION

The controller is designed for use in drive-by-wire applications in material handling and other light industrial vehicles. These include low lifts, high lifts, order pickers, stackers, personnel carriers and other industrial vehicles.

MODEL 1222

FEATURES continued

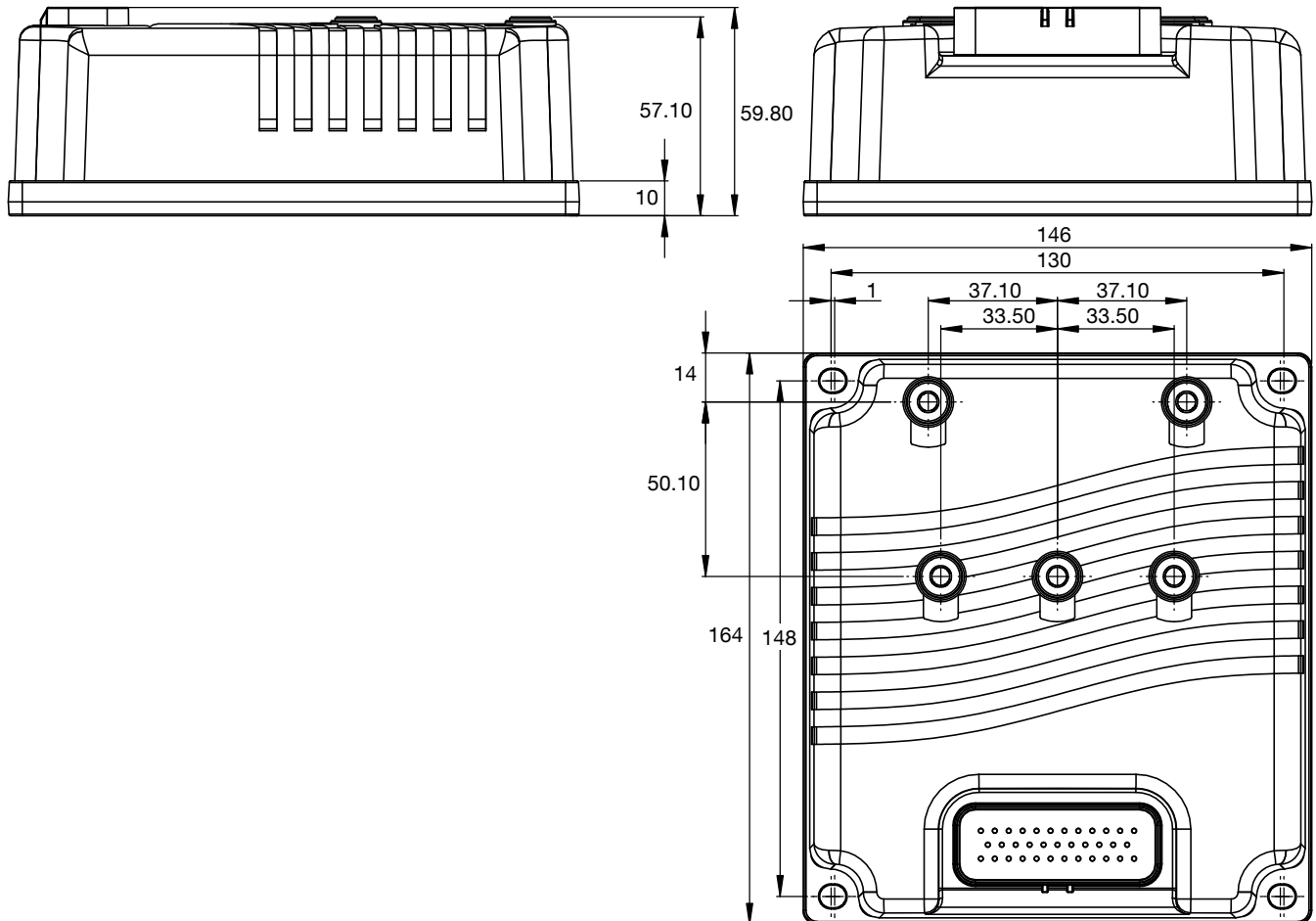
Meets or complies with relevant US and International Regulations

- EN50081-1-2
- EN61000-6-2
- EN12895
- EN1175
- EN954-1 cat. 3
- IP 65 Rated per IEC 529
- UL Listed

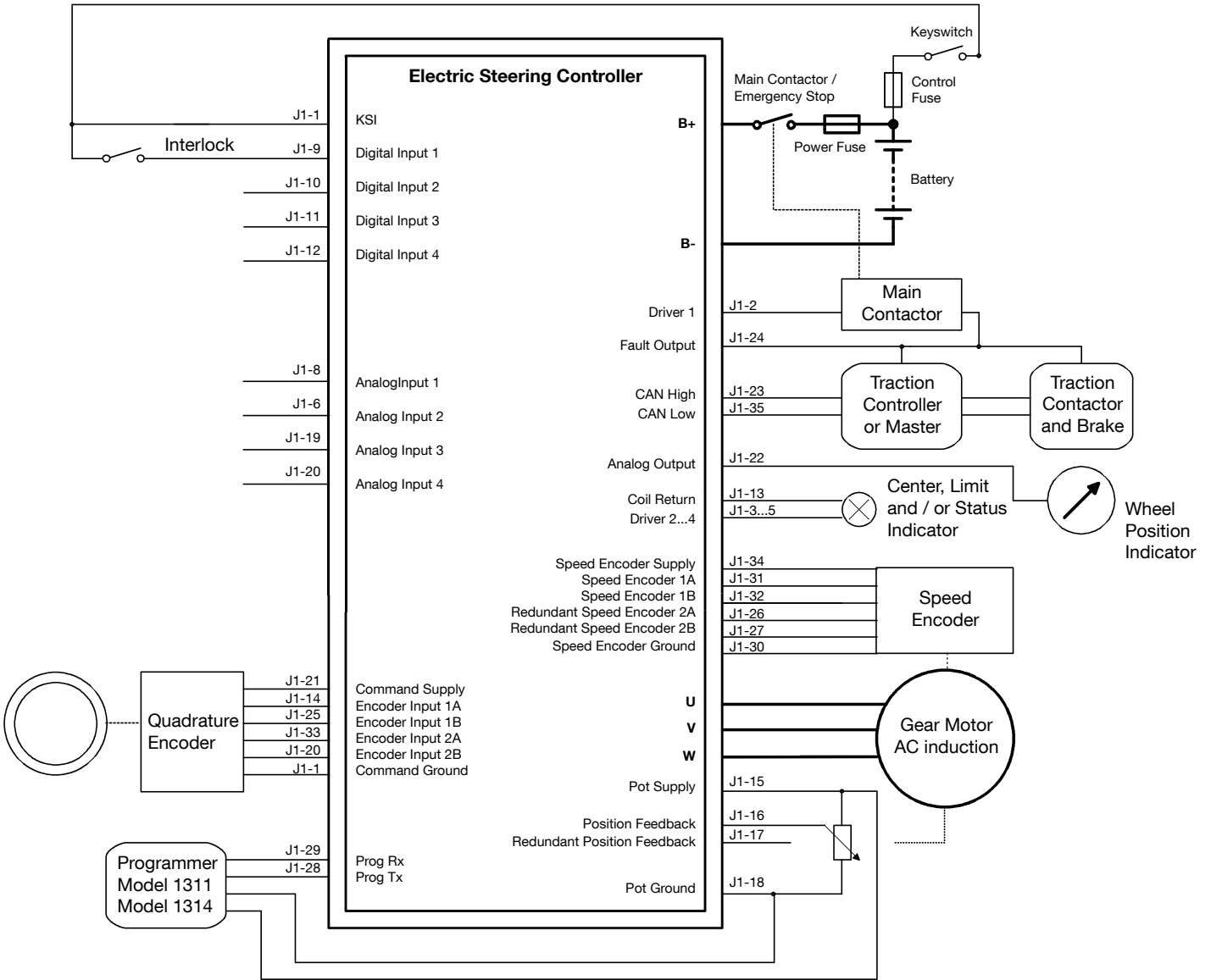
MODEL CHART

Model No.	Battery Voltage (Volts)	2 Minute RMS Current Rating (Arms)	1 Hour RMS Current Rating (Arms)
1222-50XX	24-48	70	30
1222-60XX	48-80	70	30

DIMENSIONS mm



TYPICAL WIRING DIAGRAM



WARRANTY Two year limited warranty from time of delivery.

