

PERMANENT MAGNET MOTOR SPEED CONTROLLER

MODEL 1211



DESCRIPTION

The Curtis Model 1211 is a microprocessor based, full-bridge Permanent Magnet Motor Speed Controller.

APPLICATION

Intended for small mobility aid scooters, the microprocessor based design of the Model 1211 offers enhanced performance, size, safety and cost over traditional analog products. The Model 1211 can be ordered pre-programmed or ordered with an optional programming port for use with the 1311 and 1314 programmers. This allows wide range of tuning options for mobility scooter and other permanent magnet motor applications.

FEATURES

- The package design provides sealing against the elements in a compact size.
- Rugged, Full Metal enclosure
- Connecting harnesses are built into the controller to eliminate wiring at the base of the scooter and excess connectors.
- Microprocessor control provides enhanced safety functions and allows more flexibility in custom tuning of the application "ride and feel".
- Advanced closed-loop speed regulation helps maintain speed over varied terrain, obstacles, curbs, and ramps.
- Linear undervoltage cutback of current ensures smooth control, even with low batteries, with no abrupt loss of power.
- Optional speed limit potentiometer input provides direct and linear control over the maximum vehicle speed.
- Inhibit line prevents driving while charging.
- Key-Off Decel function ensures a smooth "brake to stop" when the key is turned off.
- Anti roll-back/roll-forward function improves vehicle control on hills and ramps.
- Internal main contactor provides secure power-off.
- Fault detection and internal fault recording option (requires programmer).
- Optional Push-Switch input releases the brake and allows the motor to free-wheel.
- Push-Too-Fast software restricts vehicle top speed, even with the key off.
- Power Saver function deactivates the main contactor after a period of non-use to reduce battery drain.

RATINGS

Battery Voltage:	24 VDC
Under Voltage Cutback:	16 VDC
Over Voltage Cutback:	32 VDC
Max. current:	25 Amps
Ambient Operating Temperature:	-25°C to 60°C
Ambient Storage Temperature:	-40°C to 75°C

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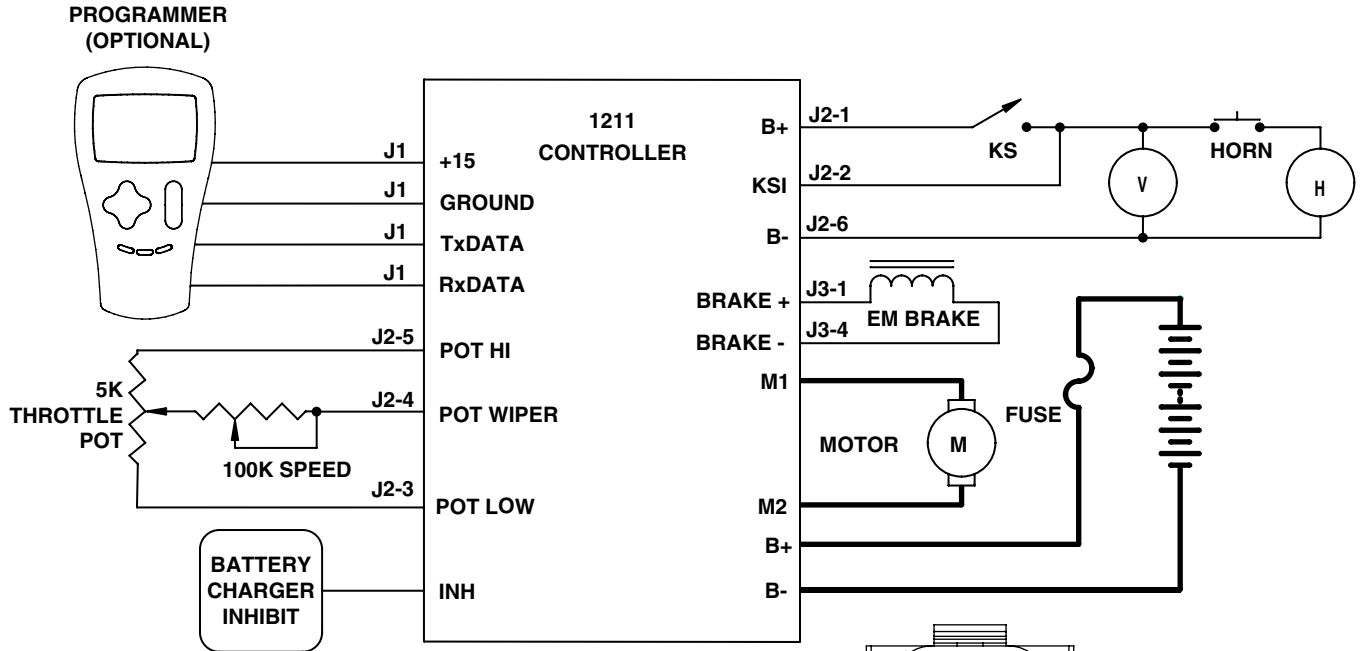
MODEL CHART

Model No.=1211-22XX

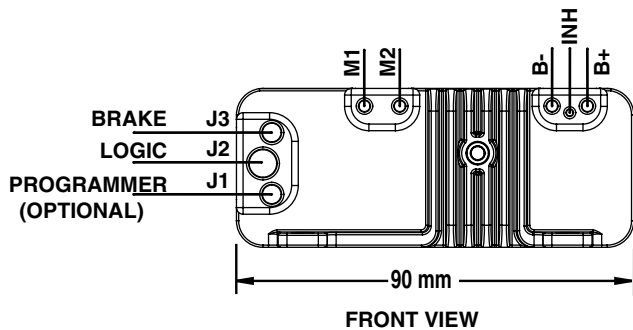
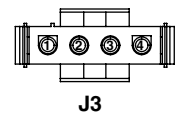
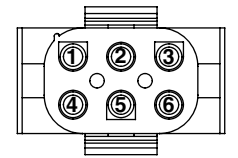
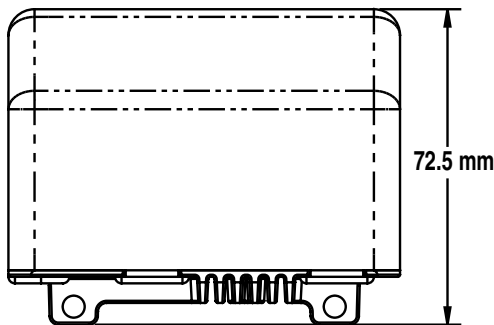
Voltage Rating= 24V

Drive Current Rating = 25A

TYPICAL WIRING DIAGRAM



DIMENSIONS MM



WARRANTY Two year limited warranty from time of delivery.



CURTIS

Specifications subject to change without notice

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