CURTIS

Motor Controllers

Separately Excited Electronic Motor Speed Controller

Model 1266 A/R SepEx®

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Curtis Model 1266 A/R SepEx® controllers are programmable and microprocessor based, with an advanced MOSFET power section for smooth and seamless control of separately excited motors.

Curtis1266 A/R SepEx® controllers are designed for use in golf, utility, or light on-road vehicles.

FEATURES

Smooth and Secure Control

- Power MOSFET technology provides smooth, silent, efficient, and cost-effective operation.
- Adjustable parameters enable custom optimization of speed, torque, and braking control.
- Half bridge armature and full bridge field provides regenerative braking down to near zero speed.
- Rugged package rated at IP5X.
- Overspeed braking (regenerative) limits speed while driving downhill.
- WalkAway™ braking feature limits any stopped or key-off rolling to very low speed (1266A models only). 1266R models do not offer walkaway feature.
- System uses Hall effect speed sensor on motor or drive train to control vehicle speed.
- Tow switch enables free rolling for towing of vehicle.
- Anti-rollback function provides improved control when throttle is released on hills.
- Anti-stall function helps prevent motor commutator damage.
- Controller drives warning buzzer–steady in reverse; intermittent during WalkAway™ braking.
- MultiMode™ input provides for two speed and power modes of operation.
- Timed shutdown of main contactor after pedal is released and vehicle has stopped.
- Current Boost provides extra power.
- Fully compatible with Curtis 1311, 1313 and 1314 Programmers for parametric adjustment, tuning, test, and diagnostics.

See a 360° view of Model 1266 A/R SepEx® at:
curtisinstruments.com/360view

- Extensive fault detection and diagnostic reporting using a Curtis Programmer including (partial list):
  - Main contactor weld check and driver check
  - Throttle and wiring faults
  - Open or shorted motor field winding
  - Open motor armature winding
  - Over-temperature
  - Missing or failed speed sensor
  - Armature drive failure
- Extensive system monitor capabilities using a Curtis Programmer, including (partial list):
  - Battery voltage
  - Throttle input
  - Direction and throttle switch operation
  - Motor field and armature currents
  - Controller heatsink temperature.

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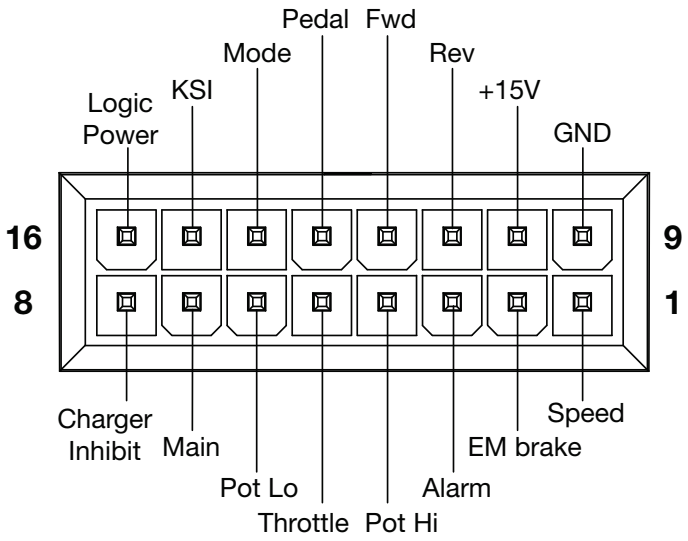
OPTIONS

- E/M brake.
- 5K 3-wire or 0–5V.

Meets or complies with relevant US and International Regulations

- Manufactured under ISO 9001 certified Quality Management System.
- UL Recognized Component Status.

PIN CHART



MODEL CHART

Curtis Model	Voltage (V)	Armature Rating (AMP) 2 minutes	Field Rating (AMP) 2 minutes
1266A-52xx	36–48	275	25
1266A-53xx	36–48	350	30
1266R-52xx	36–48	275	25
1266R-53xx	36–48	350	30

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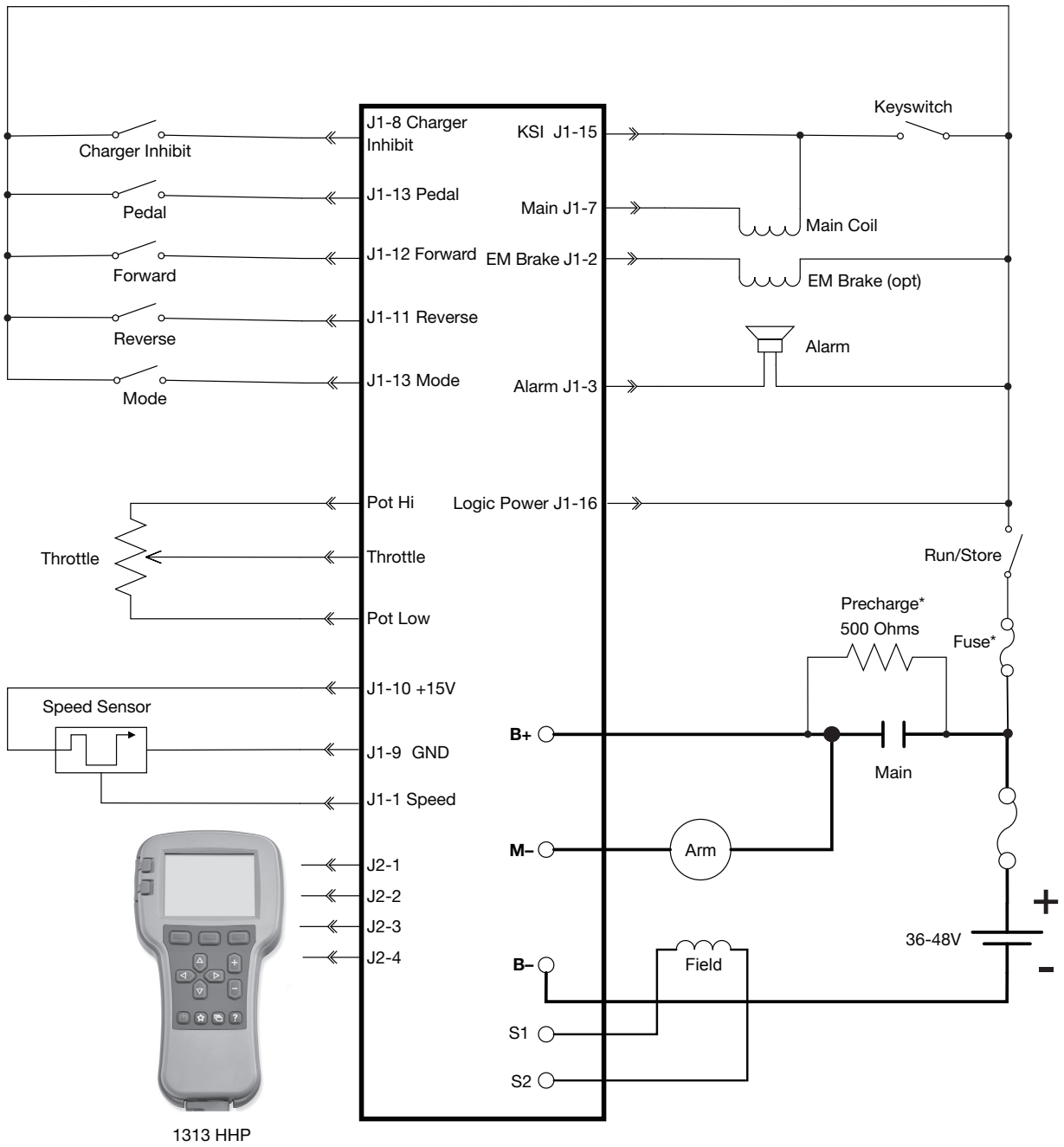
TYPICAL WIRING DIAGRAM 36–48V



NOTES: – Resistor wattage should be selected to accept the maximum system voltage.
– Fuse rating should be 30A for 1266A and 10A for 1266R.

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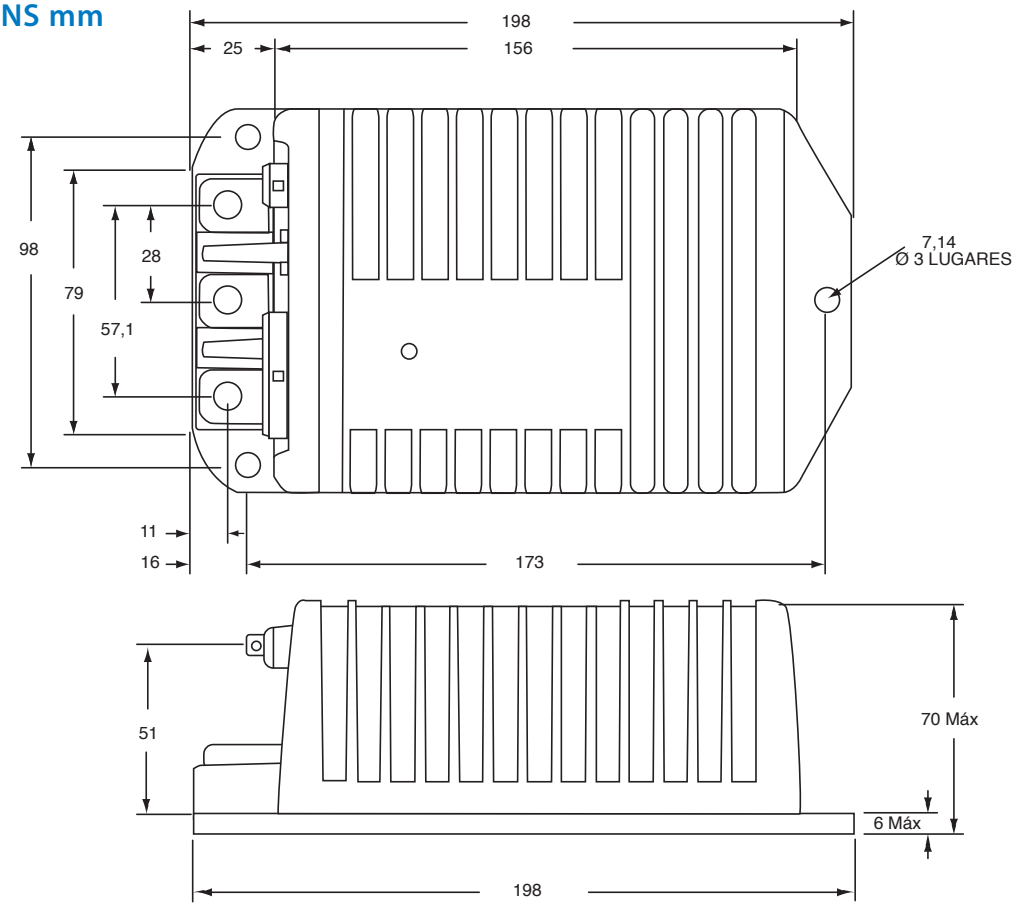
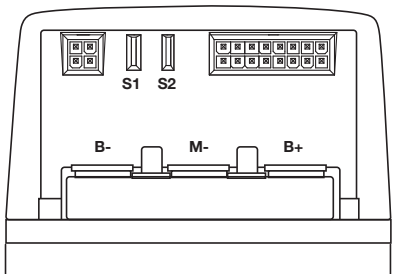
DIMENSIONS mm





Model	Heat Sink Thickness	Overall Height
1266A/R-52xx	4 mm	68 mm
1266A/R-53xx	6 mm	70 mm

WARRANTY

Two year limited warranty from time of delivery.

The Curtis Difference
You feel it when you drive it

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