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.

► 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.

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

MODEL CHART

<table>
<thead>
<tr>
<th>Curtis Model</th>
<th>Voltage (V)</th>
<th>Armature Rating (AMP) 2 minutes</th>
<th>Field Rating (AMP) 2 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1266A-52xx</td>
<td>36–48</td>
<td>275</td>
<td>25</td>
</tr>
<tr>
<td>1266A-53xx</td>
<td>36–48</td>
<td>350</td>
<td>30</td>
</tr>
<tr>
<td>1266R-52xx</td>
<td>36–48</td>
<td>275</td>
<td>25</td>
</tr>
<tr>
<td>1266R-53xx</td>
<td>36–48</td>
<td>350</td>
<td>30</td>
</tr>
</tbody>
</table>
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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

<table>
<thead>
<tr>
<th>Model</th>
<th>Heat Sink Thickness</th>
<th>Overall Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>1266A/R-52xx</td>
<td>4 mm</td>
<td>68 mm</td>
</tr>
<tr>
<td>1266A/R-53xx</td>
<td>6 mm</td>
<td>70 mm</td>
</tr>
</tbody>
</table>

WARRANTY
Two year limited warranty from time of delivery.

The Curtis Difference
You feel it when you drive it

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