Separately Excited Electronic Motor Speed Controller

Model 1268 SepEx®
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Curtis PMC Model 1268 SepEx® controllers are programmable and microprocessor based, with an advanced MOSFET power section for smooth and seamless control of separately excited motors.

Curtis PMC 1268 SepEx® controllers are designed for use in heavy-duty/golf/utility vehicles.

FEATURES

▶ 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 zero speed.
▶ Sealed package rated at IP64 and IP67.
▶ Overspeed braking (regenerative) limits speed while driving downhill.
▶ WalkAway™ braking feature limits any stopped or key-off rolling to very low speed.
▶ 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.
▶ Optional electromagnetic brake output.
▶ Optional brake light output.
▶ MultiMode™ inputs provide for multiple speed and power modes of operation.
▶ Timed shutdown of main contactor after pedal is released and vehicle has stopped.
▶ LED status indicator with external output.
▶ Fully compatible with 1311, 1314 and 1307 Programmers for parametric adjustment, tuning, test, and diagnostics.

See a 360° view of Model 1268 SepEx® at: curtisinstruments.com/360view
FEATURES  continued

▶ 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

OPTIONS

▶ External LED for remote status indicator.
▶ Warning buzzer for audible indicator of reverse and WalkAway™ modes.
▶ Brake lamp relay to drive external lights for visual indicator of braking conditions.
▶ Electromagnetic brake at 24V or 48V (programmable) to lock vehicle at rest.
▶ WalkAway™ braking feature to slow vehicle during key-off.
▶ 5K 3-wire, 0-5V, or ITS throttle.

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 PMC Model</th>
<th>Voltage (Volts)</th>
<th>Armature Rating (Amps) 2 Minute</th>
<th>Field Rating (AMP) 2 Minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1268-54xx</td>
<td>36–48</td>
<td>400</td>
<td>50</td>
</tr>
<tr>
<td>1268-55xx</td>
<td>36–48</td>
<td>500</td>
<td>50</td>
</tr>
</tbody>
</table>
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TYPICAL WIRING DIAGRAM
Model 1268 SepEx®
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DIMENSIONS mm

WARRANTY
Two year limited warranty from time of delivery.