



CURTIS

Motor Controllers



# Separately Excited Electronic Motor Speed Controller

## Model 1268 SepEx<sup>®</sup>



# Model 1268 SepEx®



## Separately Excited Electronic Motor Speed Controller

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](http://curtisinstruments.com/360view)



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### 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

Curtis PMC Model	Voltage (Volts)	Armature Rating (Amps) 2 Minute	Field Rating (AMP) 2 Minutes
1268-54xx	36–48	400	50
1268-55xx	36–48	500	50

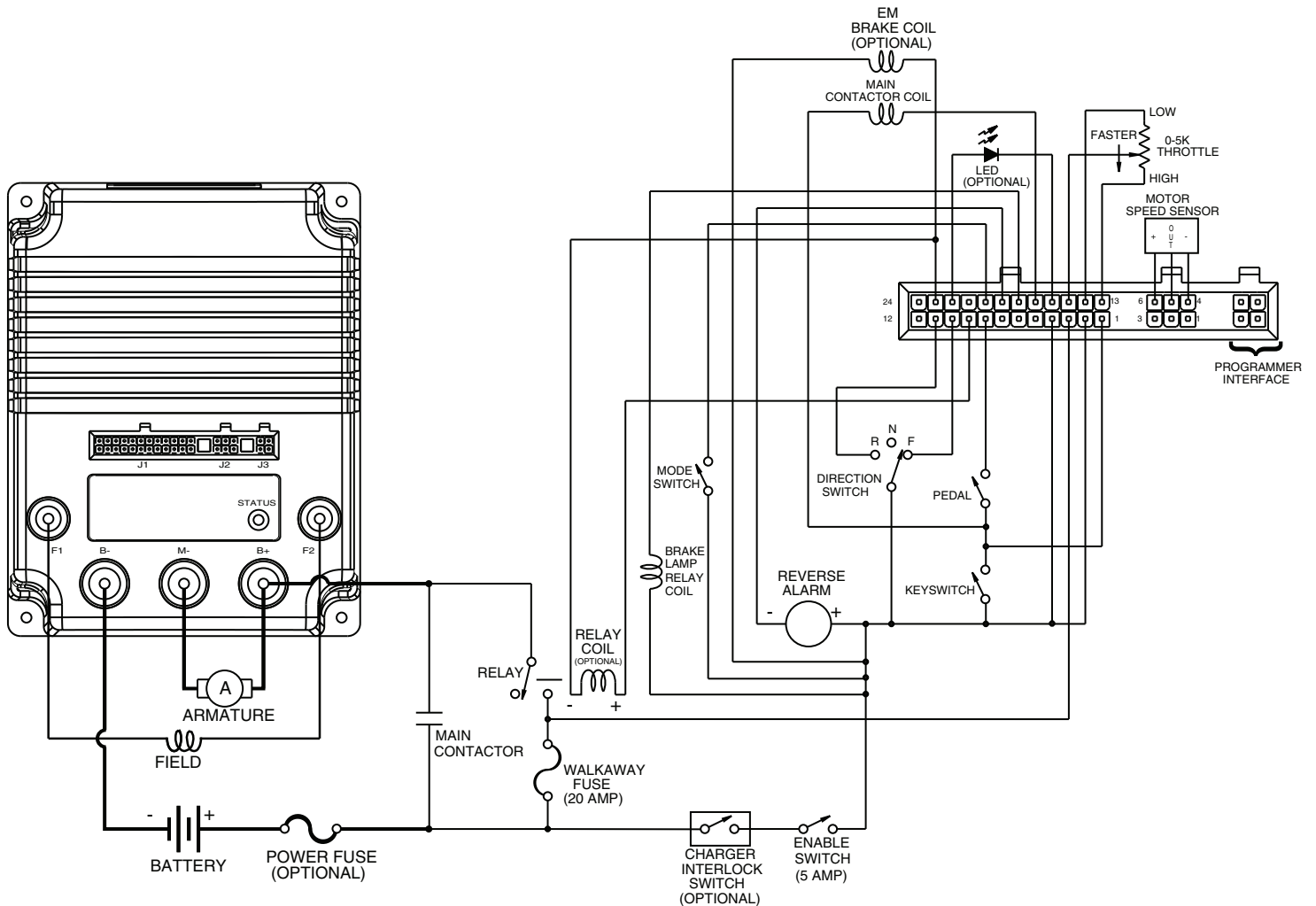


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### TYPICAL WIRING DIAGRAM



Blue				Orange
		Green		
			Blue	
			Green	

## DIMENSIONS mm



The Curtis Difference  
You feel it when you drive it

