

# SEPARATELY EXCITED ELECTRONIC MOTOR SPEED CONTROLLER



CURTIS

MODEL 1268 SepEx®



## 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.
- 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

## DESCRIPTION

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.

## APPLICATION

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

## QUALITY COMPLIANCE

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

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## FEATURES continued

- 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

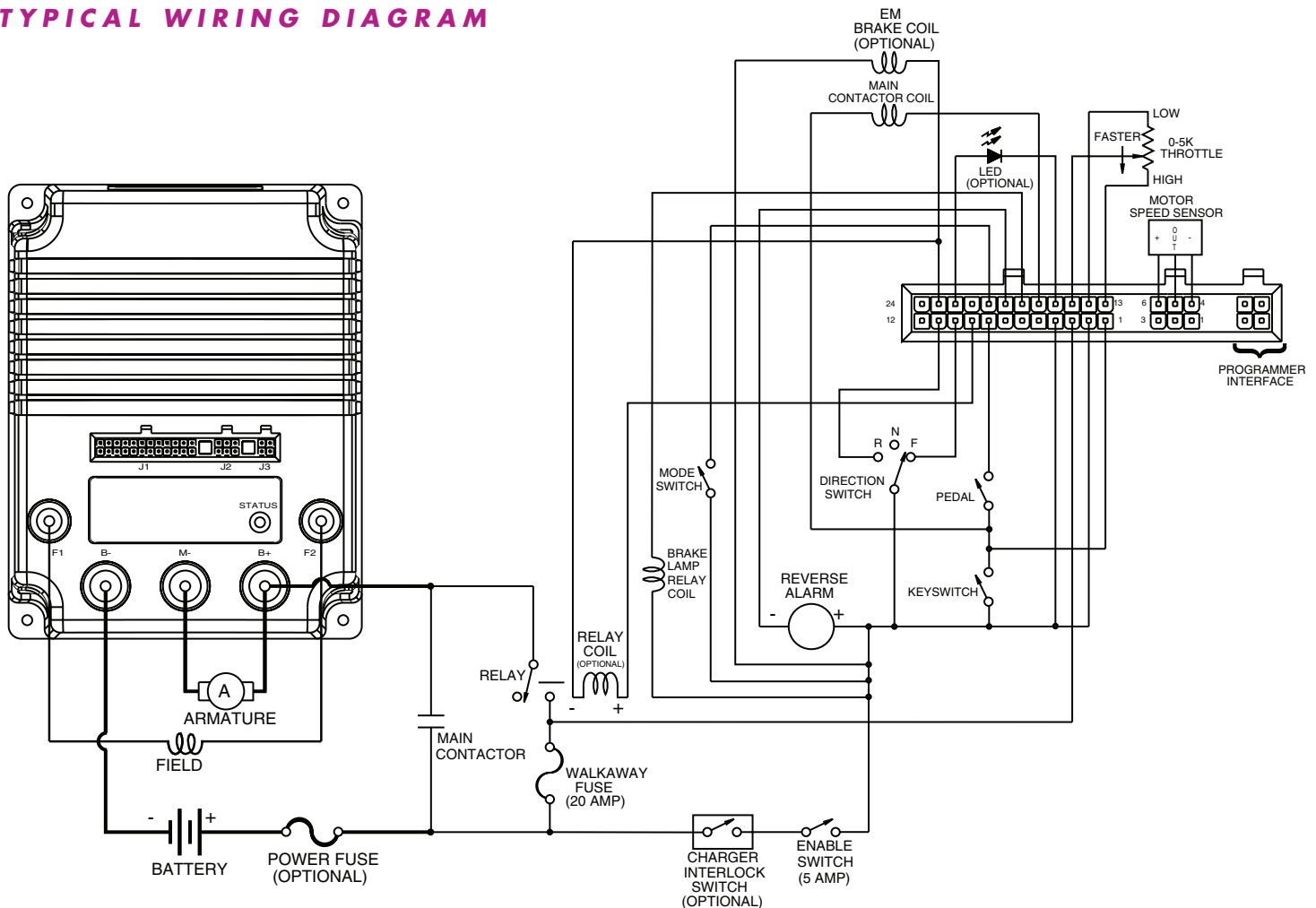
## OPTIONS

- 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.

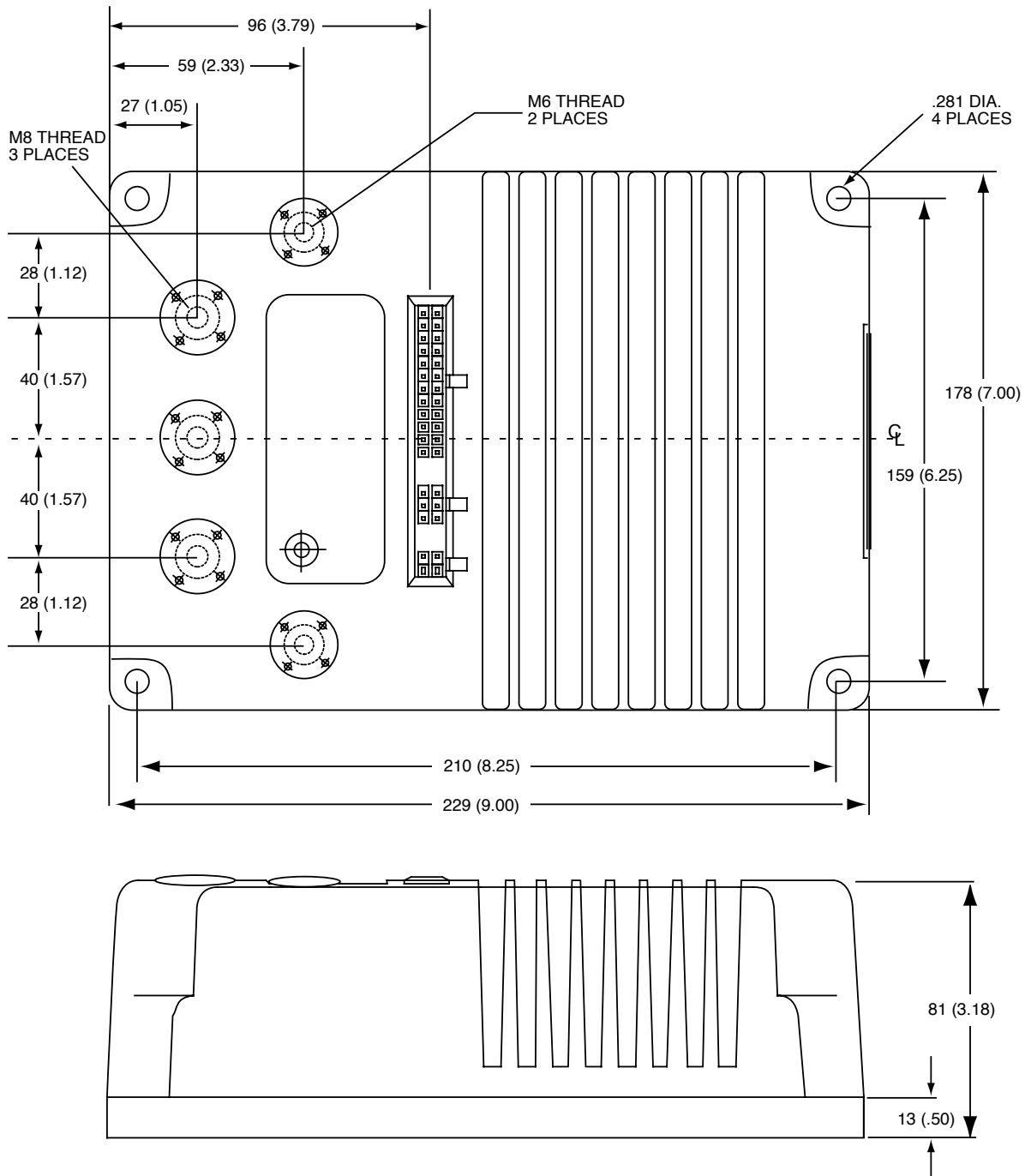
## MODEL CHART

CURTIS PMC MODEL	VOLTAGE (volts)	ARMATURE RATING (amps) 2 minutes	FIELD RATING (amps) 2 minutes
1268 - 54XX	36-48	400	50
1268 - 55XX	36-48	500	50

## TYPICAL WIRING DIAGRAM



## DIMENSIONS mm



**WARRANTY** Two year limited warranty from time of delivery.



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Specifications subject to change without notice

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