

MICROPROCESSOR MOTOR SPEED CONTROLLERS



CURTIS

MODEL 1207A



DESCRIPTION

Curtis PMC 1207A series of motor speed controllers feature a microprocessor based logic section combined with a proven MOSFET power section. The 1207A series controllers are efficient, cost effective and easy to install.

APPLICATION

The Curtis PMC 1207A controllers are ideally suited for small electric vehicle applications, such as walkie fork/pallet trucks, mini personnel carriers, sweepers, and other small series or compound motor applications.

FEATURES

- Compact size.
- Advanced high frequency power section utilizing custom power MOSFETs provides high efficiency, silent operation and reduced motor and battery losses.
- Power connections made by solid copper busses with polarized Molex connector for control signals.

- Thermal protection and compensation circuitry provide under temperature cutback, constant current limit over the operating range and linear rollback in over temperature. No sudden loss of power under any thermal conditions.
- Over voltage and under voltage protection.
- Fully compatible with 1311, 1314, and 1307 Programmers for full parametric adjustment, tuning, test and diagnostics.
- Complete diagnostics of the controller can also be accomplished with the built-in status LED.
- Meets or exceeds EEC fault detection requirements with circuitry and software to detect faults in the throttle circuit, MOSFET drive circuits, MOSFET transistors, contactor drivers and contactors.
- Input sequencing options include neutral start (HPD) and static return to off (SRO).
- True arcless contactor switching with microprocessor controlled contactor sequencing.
- Throttle position variable or fixed plugging current options.
- Neutral braking option provides for automatic plug braking in neutral.
- MultiMode™ option for programmable two mode (current limit, speed, acceleration) operation.
- Emergency reverse function (belly button) provides full function with a single input. Additional output provides for an emergency reverse circuit continuity check.
- Anti-rollback (ramp start) function gives full power for starting on ramps.
- Simple contactor and switch wiring. Coil drivers are monitored for short and open circuit for fail-safe operation.
- Flexible throttle circuitry accepts a variety of throttle types including: 5k-0, 0-5k, 0-5v, and three wire potentiometer.
- Programmable output for use as either a main contactor driver or a shunt field driver.

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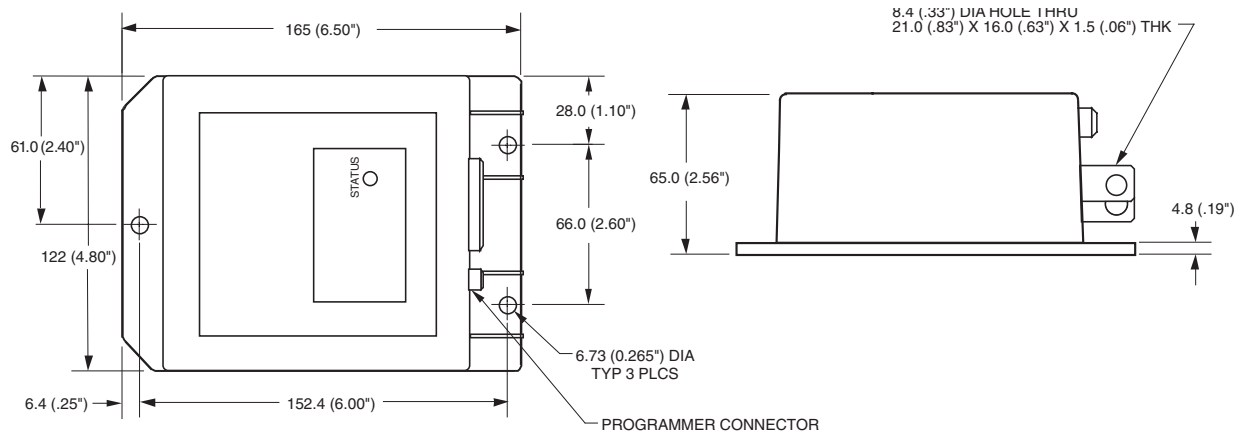
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MODEL 1207

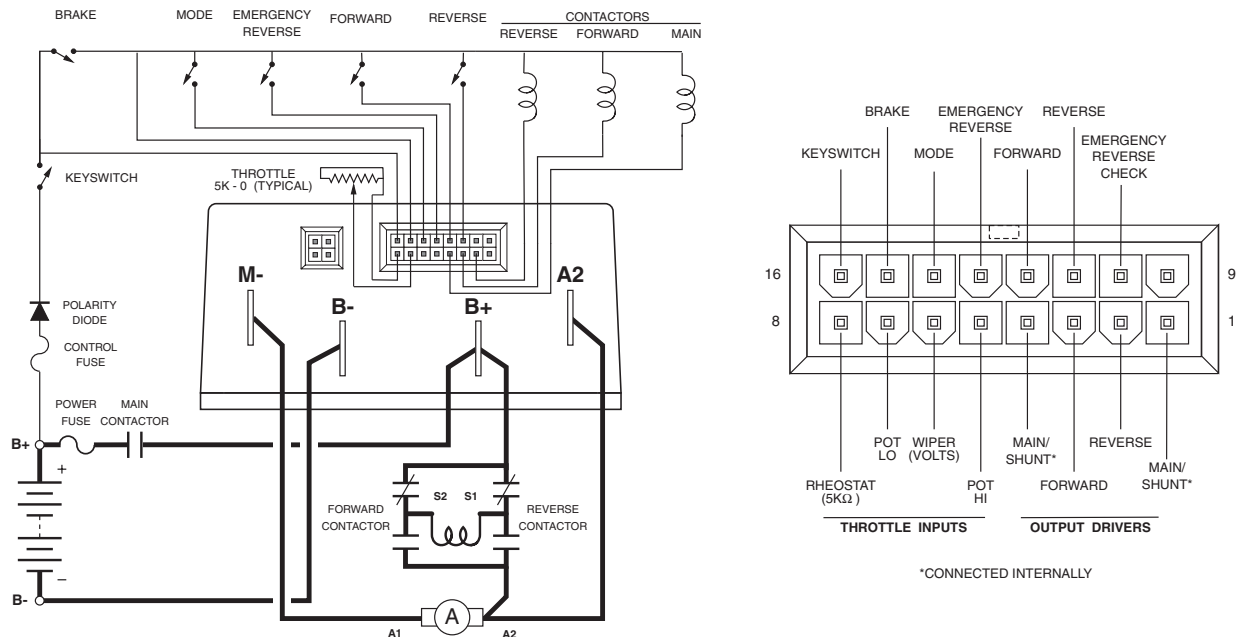
MODEL CHART

CURTIS PMC MODELS	VOLTAGE (volts)	1 MIN RATING (amps)	5 MIN RATING (amps)	1 HOUR RATING (amps)	TYP. VOLTAGE DROP @ 100A (volts)	UNDERVOLTAGE CUTBACK (volts)	AMBIENT TEMP. RANGE (C°)
1207A-41XX	24	250	150	100	0.35	16	-25 to 50
1207A-51XX	24	300	170	110	0.30	16	-25 to 50

DIMENSIONS



TYPICAL WIRING DIAGRAM



WARRANTY Two year limited warranty from time of delivery.