

MOSFET ELECTRONIC MOTOR SPEED CONTROLLERS

MODELS 1209B/1221B

1960 • 2000

CURTIS



Application

Curtis PMC MOSFET motor speed controllers are ideal for a variety of electric vehicle applications, including industrial trucks, personnel carriers, material handling vehicles, airport equipment, tow tractors, scissors-lift, and boom trucks, etc.

Features

- High frequency switching and ultra low voltage drops provide very high efficiency and silent operation. Costs, heatsinking requirements and motor and battery losses are reduced. Low end torque, range and battery life are increased.
- Environmental protection provided by a rugged anodized aluminum extrusion housing. Simple mounting and wiring with push-on type connectors for control signals. Plated solid copper busses used for all power connections.
- Thermal protection and compensation circuit provides constant current limit over operating range and under temperature and over temperature cutback. No sudden loss of power under any thermal conditions.
- No adjustments are required.
- Simple installation — Uses a two wire throttle potentiometer.
- Potentiometer fault protection circuitry disables controller if throttle wires become open.
- High pedal disable prevents controller operation if key is turned on while throttle is applied.
- Plug braking or free wheeling options.

DESCRIPTION

Curtis PMC Models 1209B/1221B are power MOSFET electronic motor speed controllers designed to provide smooth, silent, efficient and cost effective speed, torque and braking control.

WARRANTY

One year from date of delivery.

Specifications

- Frequency of Operation: 15 kHz
- Standby Current: less than 20 mA
- Standard Throttle Input: 0-5k ohms \pm 10% (others available)
- Weight: 1209B: 4.0 kg (8.8 lbs); 1221B: 4.9 kg (10.8 lbs)
- Full Power Operating Temperature Range: -25°C to 75°C (controller temperature)

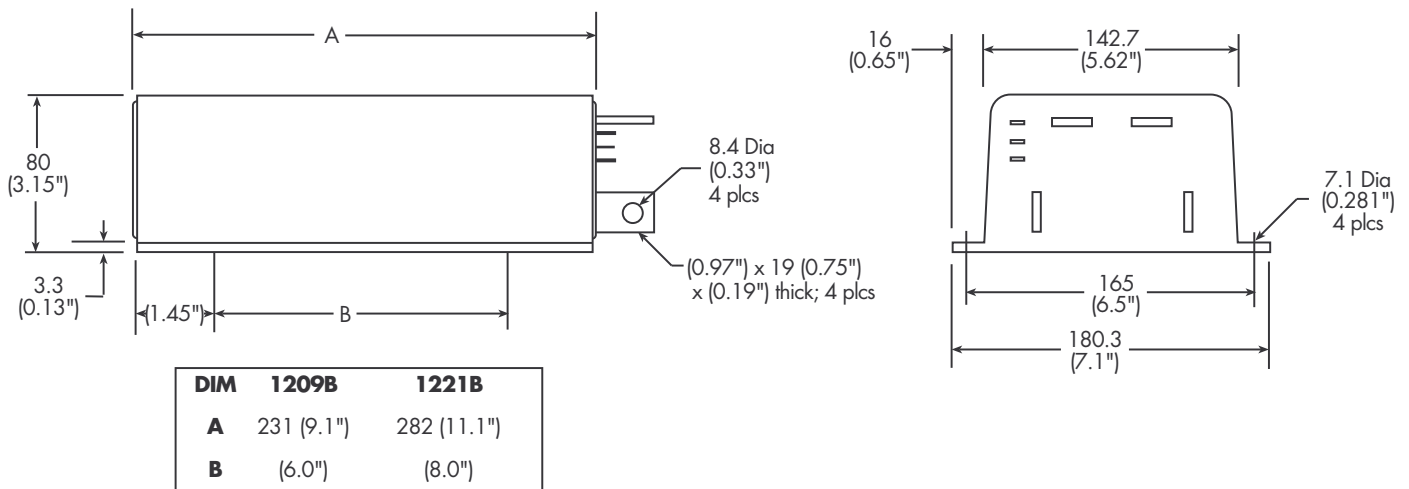
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CURTIS PMC MODELS	VOLTAGE (volts)	CURRENT (amps)	2 MIN RATING (amps)	5 MIN RATING (amps)	1 HOUR RATING (amps)	VOLTAGE DROP @ 100A	UNDERVOLT CUTBACK (volts)
1209B-46xx	24-36	500	500	350	225	<0.15V	16
1209B-55xx	36-48	450	450	300	200	<0.30V	21
1209B-64xx	48-72	400	400	275	175	<0.30V	30
1209B-6A5xx	48-80	450	450	300	200	<0.25V	33
1209B-72xx	72-120	275	275	175	100	<0.70V	45
1221B-48xx	24-36	600	600	425	250	<0.10V	16
1221B-57xx	36-48	550	550	375	225	<0.25V	21
1221B-66xx	48-72	500	500	350	200	<0.25V	30
1221B-6A7xx	48-80	550	550	375	225	<0.20V	33

Dimensions: mm (inches)



Typical Wiring Diagram:

