

# MOSFET ELECTRONIC MOTOR SPEED CONTROLLERS

**MODELS 1204/1205**

# CURTIS



## DESCRIPTION

*Curtis PMC Models 1204/1205 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.

## Application

Curtis PMC MOSFET motor speed controllers are ideal for a variety of electric vehicle applications, including industrial trucks, personnel carriers, material handling vehicles and golf cars, etc.

## Features:

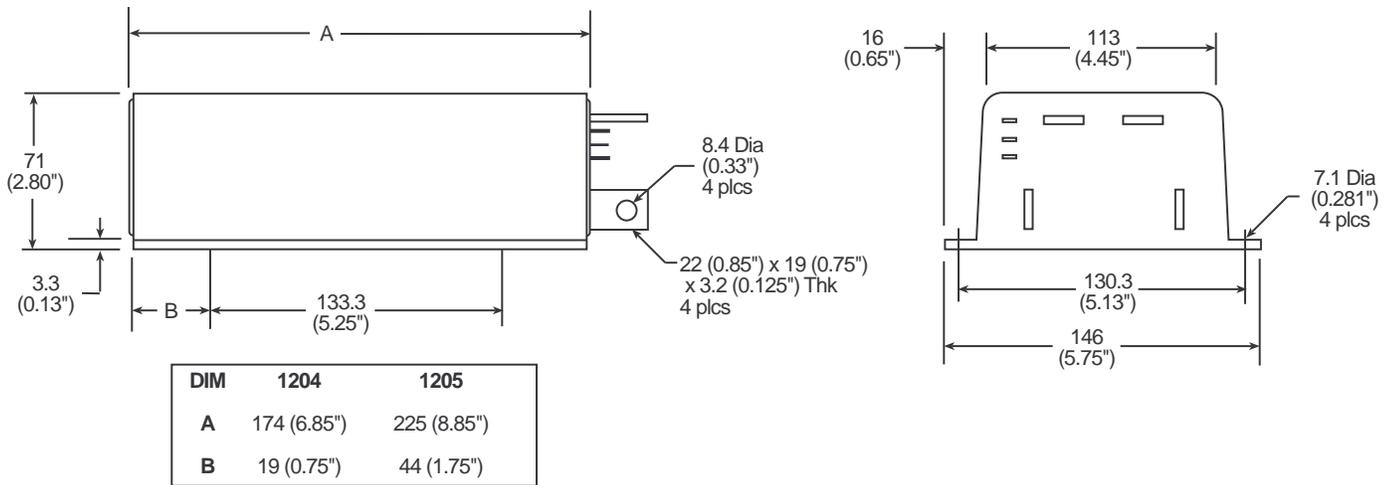
- High frequency switching and ultra low voltage drops provide very high efficiency and silent operation. Costs, heatsinking requirements and motor and battery losses are reduced. Low end torque, range and battery life are increased.
- Environmental protection provided by a rugged anodized aluminum extrusion 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.

## Specifications:

- Frequency of Operation: 15 kHz
- Standby Current: less than 20 mA
- Standard Throttle Input: 0-5k ohms  $\pm$ 10% (others available)
- Weight: 1204: 1.8 kg (4 lbs);  
1205: 2.7 kg (6 lbs)
- Full Power Operating Temperature Range:  
-25°C to 75°C (controller temperature)

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)
1204-0xx	24-36	275	275	200	125	.35	16
1204-1xx	24-36	175	175	130	75	.50	16
1204-2xx	24-36	275	275	200	125	.35	16
1204-3xx	24-36	175	175	130	75	.50	16
1204-4xx	36-48	275	275	200	125	.35	21
1204-5xx	36-48	175	175	130	75	.50	21
1204-6xx	12	275	275	200	125	.35	9
1204-7xx	12	175	175	130	75	.50	9
1205-1xx	24-36	400	400	275	175	.25	16
1205-2xx	36-48	350	350	250	150	.30	21
1205-3xx	12	400	400	275	175	.25	9

**Dimensions: mm (inches)**



**Typical Wiring Diagram:**

