



STANDARD CONTROLLER FEATURES

- ◆ Lower Traction motor costs
- ◆ Sealed brushless motor eliminates maintenance
- ◆ Improved braking enables use of smaller mechanical brakes
- ◆ Integral speed control
- ◆ Interchangeable logic with either slip or flux vector control
- ◆ CAN (Controller Area Network) communications
- ◆ RS232 communications
- ◆ Flash memory



AC Traction and Pump Motor Applications

Utilising the same innovative design techniques as the PowerpaK, the PowerpAC offers a compact solution to AC motor applications. The Sevcon PowerpAC controller range is designed for Counterbalanced lift trucks typically in the capacity range 1 to 3 tonnes (1500 – 6000 lbs.) at voltages of 24 to 80 volts, including 3 wheel (twin drive motor) variants. In addition the design also caters for, but is not limited to, Warehouse (reach) trucks in the range 1 to 2 tonnes (2000 –4000 lbs.), tow tractors, personnel carriers up to 15 tonnes (30,000 lbs.) and self propelled Aerial Lift machines.

The primary benefits of the PowerpAC and AC motor are as follows: -

- ◆ **'Contactorless' operation** – direction, field weakening and regen contactors are eliminated; only a line contactor is required as a failsafe device.
- ◆ **Inherent Regen Braking** – this intrinsic characteristic of an AC system eliminates the additional components required to provide this feature on a conventional DC system.
- ◆ **Torque control** – again an inherent property of the AC system, superior torque control is available particularly at low speeds.
- ◆ **Flash memory** – this allows easy development and upgrades without the need to remove or replace the logic units.

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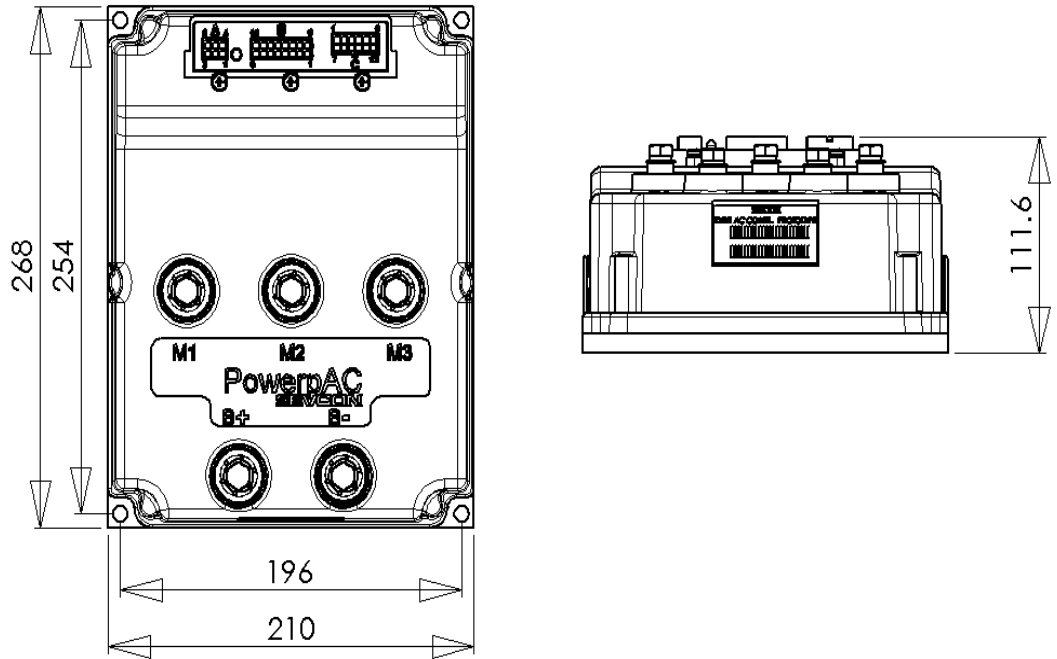
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PowerpAC Electrical Specification

Voltage	Maximum Current
24/48V	300A
24/48V	400A
24/48V	650A
72/80V	450A

(All variants are available in either traction or pump configuration)

PowerpAC Outline Specification

Enclosure protected to IP66
Vibration 6G, 40 – 200Hz, 1 hour in x, y, and z planes
Operating temperature – 30°C to +40°C
Storage temperature – 40°C to +70°C
Frequency 16KHz
Dimensions 268 (L) * 210 (W) * 111.6 (H) mm
Dimensions 185 (L) * 210 (W) * 111.6 (H) mm (300A model)

This product bulletin is for outline specification only. For specific application data; the full engineering specifications available from Sevcon should be used. Sevcon is constantly striving to improve its products and reserves the right to alter specifications without notice

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