



## STANDARD CONTROLLER FEATURES

- ◆ High Frequency – silent operation
- ◆ Choice of displays – standard or full feature
- ◆ CAN (controller area network) communications
- ◆ RS232 communications
- ◆ Replaceable logic unit
- ◆ Diagnostic LED

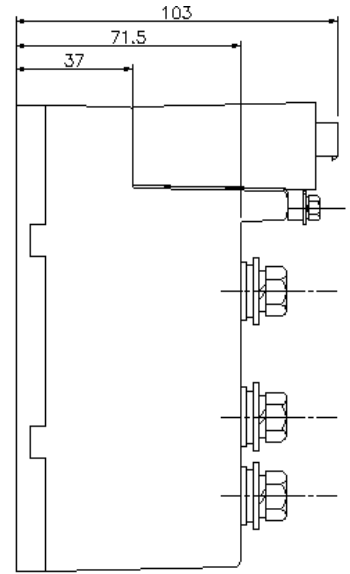
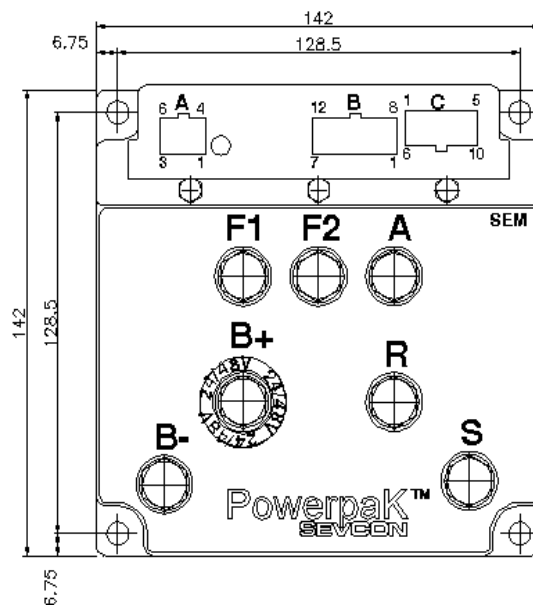


## Medium to High Power SEM Applications

Utilising the same innovative design techniques as the PowerpaK Series controllers, the SEM controllers offer a compact solution to this newer motor technology.

The primary benefits of the PowerpaK SEM and Separately Excited Motor as follows:-

- ◆ **Contactorless Direction Changing** – eliminating delays and the need for contactor maintenance.
- ◆ **Inherent Regen Braking** – this is an intrinsic characteristic of the SEM. Regen braking on a conventional series motor typically requires additional electronic circuitry and solenoid contactor.
- ◆ **Inherent Field Weakening** – again a characteristic of the separately excited motor. Conventional systems require an energy inefficient power resistor and contactor to provide this feature.
- ◆ **Built in speed control** – separately excited motors have an inherent speed control characteristic, which is difficult to emulate on a series motor without the addition of extra circuitry, and costly speed probes, sensors or tacho generators.



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## Powerpak SEM Electrical Specification

Voltage	Armature Current 1 Minute	Armature Current 1 Hour	Field Current
24/48V	350A	117A	50A
24/48V	500A	167A	50A
72/80V	425A	167A	50A

## Powerpak SEM Outline Specification

<b>Enclosure protected to IP55</b>
<b>Vibration 6G, 40 – 200Hz, 1 hour in x, y, and z planes</b>
<b>Operating temperature – 30°C to +40°C</b>
<b>Storage temperature – 40°C to +70°C</b>
<b>Frequency 16KHz</b>
<b>Dimensions 142 (L) * 142 (W) * 103 (H) mm</b>

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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