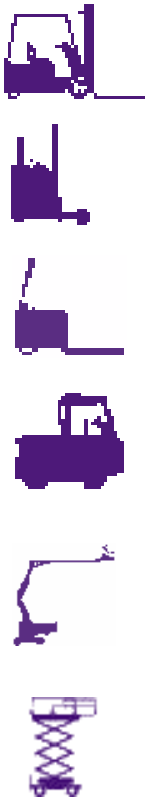




STANDARD CONTROLLER FEATURES

- ◆ High Frequency – silent operation
- ◆ Regenerative braking
- ◆ Choice of displays – standard or full feature
- ◆ **CAN** (Controller Area Network) communications
- ◆ **RS232** communications
- ◆ Integrated logic unit
- ◆ Diagnostic LED



Low to Medium Power SEM Applications

Utilising the same innovative design techniques as the PowerpaK, Micropak controllers offer an ultra compact solution to low power applications such as twin motor installations. The Micropak has an identical footprint to the PowerpaK but with a reduced profile ideally suited to applications in smaller machines where space is at a premium.

The primary benefits of the Micropak and Separately Excited Motor (SEM) are 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 tachogenerators.
- ◆ **Diagnostic and set-up tools** – adjustments can be made using a handheld calibrator or via an RS232 connection to a computer running the Sevcon PCpaK diagnostic software.

MicropaK™ SEVCON

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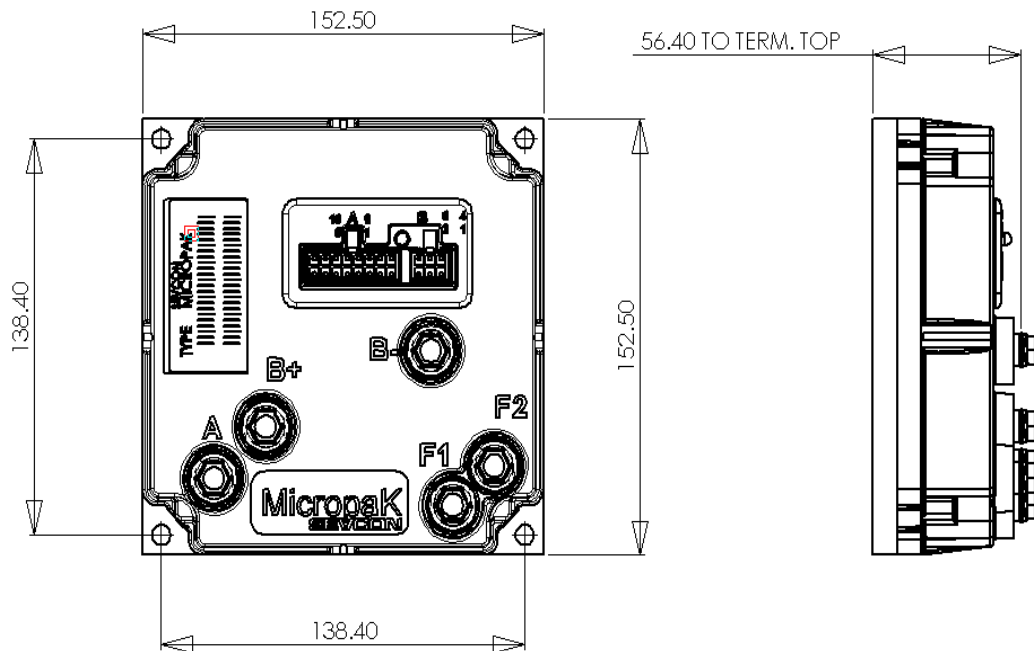
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MicropaK SEM Electrical Specification

Voltage	Armature Current 1 Minute	Armature Current 1 Hour	Field Current
24/36V	180A	75A	30A
24/36V	270A	100A	30A
36/48V	270A	100A	30A

MicropaK SEM 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 152.5 (L) * 152.5 (W) * 56.4 (H) mm

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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