

MillipaK

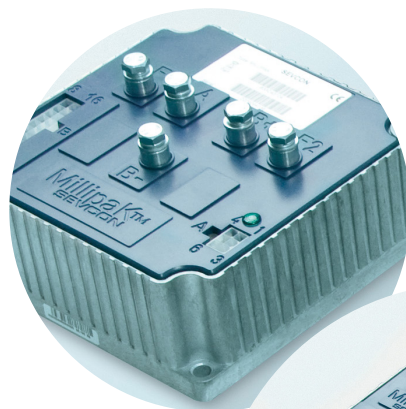
DC & AC Motor Controller

The MillipaK family of DC and AC motor controllers provides an enhanced thermal design for traction and pump systems.

MillipaK controllers deliver high power capabilities in a minimum of space without compromising performance.

Features

- Very compact design
- Silent operation
- Regenerative braking
- PC Configuration
- Flash memory
- Diagnostic LED
- IP66 protection



Key Parameters

	Battery Voltage	Max Power (kW)	Peak Current 1 min (A)	Field Current (A)
SEM Traction	24	2	300	30
	24	4	500/600	40/50
	48	4	300	30
	48	6.5	500/600	40/50
Series Pump	24	2	300	.
	24	4	600	.
	48	4	300	.
	48	6.5	600	.
Brushed PM	48	4	300	.

Separately Excited Motors (SEM)

Speed, efficiency, flexibility. SEM offers a contactor-free solution to regenerative braking and field weakening, with improved efficiency. Complementary switching techniques provide improved speed control without added sensors.

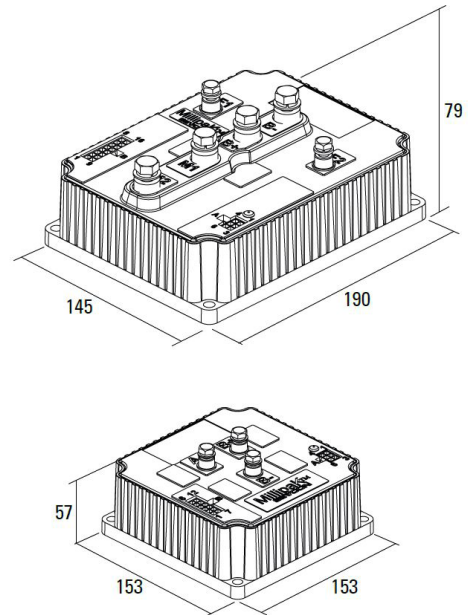
Series Pump Controller

Dedicated solution with flexibility. A dedicated pump motor solution offers two variable-speed inputs and eight configurable speed inputs, as well as speed compensation for use with hydraulic power steering applications.

Brushed Permanent Magnet Motor Controller

This controller operates in full, 4-quadrant mode allowing contactor-free operation in direction changing and regenerative braking. It operates in either torque control or speed control mode. The PMAC controller operates in Trapezoidal or Sinusoidal wave-form switching modes. Brushless PM motors offer absolute speed control that is hard to duplicate on a series motor without adding extra circuitry and costly speed probes, sensors, or tacho generators. A brushless solution requires no motor access for maintenance so the motor can be positioned anywhere on the vehicle. Absence of motor brushes also means no arcing during operation, hence lower EMC emissions.

Mechanical Interface



Enhanced Reliability & Performance

Sevcon's patented MOSFET switching design delivers peak dependability and performance, as well as silent operation utilizing a 16 kHz high switching frequency.

Flashed Memory for increased Flexibility

As application data is stored in flash memory on the controller, it can be reprogrammed in place, increasing flexibility and commonality of system design.

Inputs & Outputs

Various configurations of digital and analog inputs and outputs (I/O) are standard and suitable for many applications. Functions can include throttle inputs, limit switch inputs, contact drives, hour counters, and instrumentation. This allows use as a stand-alone controller or integration into a vehicle system.

For more information visit
sevcon.com