



Hybrid



Electric

Explore our Technologies

DC Motor Controller MillipaK

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The MillipaK family of DC 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.

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.

Features

- Very compact design
- Silent operation
- High 16 kHz switching frequency
- Regenerative braking
- PC Configuration
- Flash memory
- Diagnostic LED
- IP66 protection

Key Parameters

	Battery Voltage (Vdc)	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	-

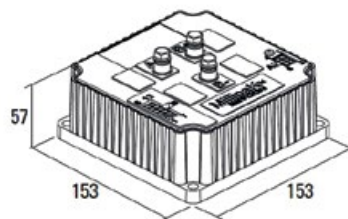
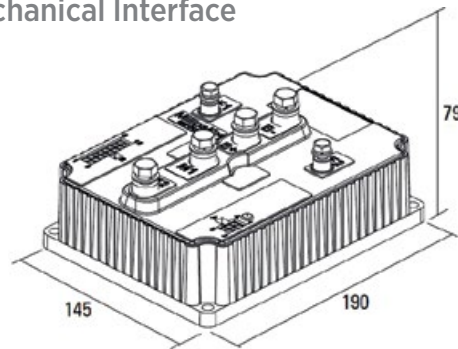
Inputs & Outputs

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.

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.

Mechanical Interface



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.

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