24-80V 175-650A power ratings
AC and DC motor control
Traction, pump and steering control
Dual traction options
Assured gradient control
Elegant, low-profile package
High power-to-size ratio
Exceptional thermal performance
High-efficiency, minimal switching losses
Heatsinking of all internal components
No internal cables or connections
High reliability
CANbus communications
Field upgradeable software

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SUPERIOR CONTROL FOR INDUSTRIAL APPLICATIONS

The Sigmadrive family of AC and DC motor controllers have been developed for a wide range of motor vehicle applications, including Materials Handling, Airport Ground Support, and range of electric vehicle applications, including

Because of the universal nature of the design, the same hardware can be flexibly configured as either a traction, pump or steering controller. Functionality - to suit local, OEM, and end user requirements - can be separately adjusted and DC motors may be supplied.

Isolated Metal Substrate (IMS) technology is ideally utilized to provide state-of-the-art thermal performance and exceptional reliability. The IMS allows for low profile, remote cabling or inter-board connections, as well as greatly reduced housing and cabinet sizes and terminals. This enhances reliability and makes Sigmadrive to provide a high performance ratio than competitive controllers of the same rating.

Dual traction applications can be easily and effectively addressed by extending use of controllers in a traction or inverter configuration. The speed control of the traction device is determined by the commanded angle of the vehicle. In this mode of operation, there is a great deal of flexibility and the provision of a large number of specialized programs, parameters, memory-locating, overall flexibility control. In addition, communication between the controller and the CANbus via selectable HI/low and broadcast functions, which are designed to limit vehicle damage even when no drive signal is present. CANbus communication provides a safer and more reliable method of communication between controllers and the CANbus..

The Sigmadrive Hand-held Programmer (HHP) is a powerful tool that can be used to configure all Sigmadrive controllers, as well as the Sigmagauge digital display. In addition to multiple programming functions, there are status and diagnostic functions that permit vehicle designers and service engineers to control their vehicles entirely on screen. The HHP is also able to select which details are displayed on the screen.

Sigmagauge LCD is a highly versatile vehicle display that may be used either alone or in conjunction with another display. It provides direct heatsinking for all components and full environmental protection is afforded via totally enclosed electronics. This module expands the Sigmadrive’s I/O count by allowing many extra connections to be put in place without the need for bulky wiring. Sigmagauge’s design and program, the Sigmadrive AC is available in traction and pump steering configurations.

The Sigmadrive Programmable (PMP) is a powerful control that can be used to configure all Sigmadrive controllers, as well as the Sigmagauge display. In addition to multiple programming functions, there are status and diagnostic functions that permit vehicle designers and service engineers to control their vehicles entirely on screen.

Sigmadrive Voltage/Current/Time

V (1 hour) A Current

Weight (kg)

Length

G

Material Handling, Airport Ground Support, and a wide range of electric vehicle applications, including

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