

SUPERSIGMA2

AC - PMS - IPM MOTOR CONTROLLERS



- > **AC - PMS - IPM Motor Technology**
- > **AC - PMS - IPM Full Auto Tuning**
- > **AC - PMS - IPM Sensor-less**
- > **Automated Motor Sensor Setup**
- > **CAN Open & J1939**
- > **Configurator CAN bus setup & Live Data**



Model	24/48V	60-96V	Size (mm)
Size 1	250Arms	140Arms	150 x 200 x 72
Size 2	450Arms	270Arms	200 x 200 x 72
Size 3	600Arms	450Arms	250 x 200 x 72
Size 4	800Arms	600Arms	320 x 200 x 72

RECOMMENDED ACCESSORIES



Lite Display



Advanced Display



Calibrator



DMC-Configurator

SPECIFICATION

- Single and dual / multi motor traction
- Pump controllers
- Maximum current: 140 - 800Arms
- Nominal voltage range: 24/48V - 60/96V - 120V
- Operating temperature from -30 to +85°C
- CAN Open / J1939 / or customized
- Isolated CAN optional
- Flash firmware
- Hidden hand held calibrator connector
- Industry standard 35 way AMP Seal connector
- Protection rating IP65
- EN 13849 Safety Category II PLC or PLd
- IMS power boards / high efficiency MOSFET

FEATURES

- Speed and torque control mode
- AC - PMS - IPM full auto tuning
- Hill hold
- Software selectable input polarity
- 3 Analogue inputs
 - 1 Dedicated accelerator i/p with full wire off protection & redundancy feature
- 7 Digital inputs
 - 1 Proportional output 2.5A
 - 2 Contactor outputs 2.5A
 - 1 Digital output - low current
 - 1 Analogue motor thermal sensor input
- Driver short circuit protected
- Integral CAN termination options
- Integrated power fuse

SPECIFIC IPM & PMS FEATURES

- Sensor-less control (none traction only)
- Flexible motor sensor support
- 8 or 12 bit absolute position sensors
- 2 Analogue Sin/Cos inputs
- 3 Hall sensors
- Resolver optional
- Automated sensor adjustment
- Field weakening

SETUP METHODS

- DMC Configurator
- Hand held calibrator
- Conditional access

Customer specific hard- and software development on request.

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