

# SigmaLITE

## AC - PMS - IPM MOTOR CONTROLLERS



NEW Development  
Release 2024



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

Voltage	Current I <sub>min./1h</sub>	Release	Size (mm)
24/48V	250/125Arms	2024	144 x 106 x 55
24/48V	120/60Arms	tbd	144 x 106 x 55
24/48V	80/40Arms	tbd	144 x 106 x 55

**Preliminary information**

### RECOMMENDED ACCESSORIES



Lite Display



Advanced Display



Calibrator



DMC-Configurator

### SPECIFICATION

- Single and dual motor traction
- Pump controllers
- Maximum current: 250Arms
- Nominal voltage range: 24/48V
- Operating temperature from -30 to +85°C
- CAN Open DS402 / J1939 / or customized
- Isolated CAN standard
- Flash firmware via CAN / DMC Configurator
- Hand held calibrator via CAN Open
- Industry standard 23 way AMP Seal connector
- Protection rating IP65
- EN 13849 Safety Category II PLd
- IMS power boards / high efficiency MOSFET

### FEATURES

- Speed and torque control mode
- AC - PMS - IPM full auto tuning
- Hill hold
- Positive input polarity
- 4 Analogue inputs
- Accelerator i/p with full wire off protection & redundancy feature
- 12 Digital inputs
- 1 Proportional output 2A (tbc)
- 4 Contactor outputs 2A (tbc)
- Drivers short circuit protected
- Motor thermal sensor KTY, PT1000 or custom
- CAN termination optional

### SPECIFIC IPM & PMS FEATURES

- PMS Sensor-less
- Flexible motor sensor support
- 8 or 12 bit absolute position sensors
- 2 Analogue Sin/Cos inputs
- 3 Hall sensors
- Automated sensor calibration
- Field weakening

### SETUP METHODS

- DMC Configurator
- Hand held calibrator
- Conditional access

Customer specific hard- and software development on request.

### DMC GmbH

Auf dem Hochstück 11 - 45701 Herten Germany  
Phone +49 2366 10070 | Email info@dmcde.de