

SigmaLITE

AC - PMS - IPM MOTOR CONTROLLER



- > AC - PMS - IPM MOTOR TECHNOLOGY
- > AC - PMS - IPM FULL AUTO TUNING
- > AUTOMATED MOTOR SENSOR SETUP
- > AC - PMS -IPM SENSOR-LESS
- > CAN OPEN & J1939
- > CONFIGURATOR CAN BUS SETUP & LIVE DATA

Voltage	Current 1min./1h	Release	Size (mm)
24/48V	250/125Arms	06/2024	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
60/96V	120/60Arms	tbd	144 x 106 x 55
24/96V	Powersteer	tbd	144 x 106 x 55

Preliminary information

RECOMMENDED ACCESSORIES



Lite Display



Advanced Display



Calibrator



DMC-Configurator

SPECIFICATION

- Single, 2WD, 4WD traction controller
- Pump controller
- Maximum current: 250Arms
- Nominal voltage range: 24/48V
- Operating temperature from -30 to +85° C
- CAN Open DS301, DS402 / J1939 / or customized
- Isolated CAN standard
- Flash firmware via CAN / DMC Configurator
- Handheld calibrator via CAN Open
- Industry standard 23 way AMP Seal connector
- Mechanical protection rating IP67
- EN 13849 Safety Category II PLd
- IMS power boards / high efficiency MOSFET

FEATURES

- Speed and torque control mode
- AC - PMS - IPM full auto tuning incl. sensor
- Hill hold
- Positive input polarity
- Drivers short circuit protected
- Motor thermal sensor KTY, PT1000 or custom
- CAN communication
- Accelerator i/p with full wire off
- Possible inputs/outputs
 - 7 Digital inputs (6 redundant)
 - Configurable output voltage / PWM output
 - 5 Contactor outputs (1 Proportional output)
 - 3 redundant Analogue inputs with full wire off

SPECIFIC IPM & PMS FEATURES

- 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
- Handheld calibrator
- Conditional access

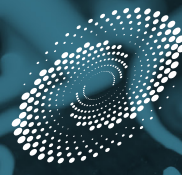
Customer specific hard- and software development on request.

DMC GmbH

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

SigmaLITE

AC - PMS - IPM MOTOR CONTROLLER



dmc
DIGITAL MOTOR CONTROL



SigmaLITE AC

	Item Code
SigmaLITE AC Pump Controller 24-48V 250Arms Isolated CANopen	SLA425P-01
SigmaLITE AC Pump Controller 24-48V 250Arms Isolated CANopen sensorless	SLA425P-01S
SigmaLITE AC Traction Controller 24-48V 250Arms Isolated CANopen	SLA425T-01
SigmaLITE AC Traction Controller 24-48V 250Arms Isolated CANopen sensorless	SLA425T-01S

SigmaLITE IPM

	Item Code
SigmaLITE IPM Pump Controller 24-48V 250Arms Isolated CANopen	SLI425P-01
SigmaLITE IPM Pump Controller 24-48V 250Arms Isolated CANopen sensorless	SLI425P-01S
SigmaLITE IPM Traction Controller 24-48V 250Arms Isolated CANopen	SLI425T-01
SigmaLITE IPM Traction Controller 24-48V 250Arms Isolated CANopen sensorless	SLI425T-01S

SigmaLITE PMS

	Item Code
SigmaLITE PMS Pump Controller 24-48V 250Arms Isolated CANopen	SLP425P-01
SigmaLITE PMS Pump Controller 24-48V 250Arms Isolated CANopen sensorless	SLP425P-01S
SigmaLITE PMS Traction Controller 24-48V 250Arms Isolated CANopen	SLP425T-01
SigmaLITE PMS Traction Controller 24-48V 250Arms Isolated CANopen sensorless	SLP425T-01S



Line contactors

	Item Code
Battery 24V Controller Size 1 & SigmaLITE Ametek Einzelschütz 125A 24V	SW/80/6/P
Battery 24V Controller Size 2 Ametek Einzelschütz 24V 200A	SW/180/B4/P
Battery 48V Controller Size 1 & SigmaLITE Ametek Einzelschütz 48V 125A	SW/80/B10/P
Battery 48V Controller Size 2 Ametek Einzelschütz 48V 200A	SW/180/B8/P
Battery 48V Controller Size 3 & Size 4 Ametek Einzelschütz 48V 400A	SW/200/20/P
Battery 80V Controller Size 1 Ametek Einzelschütz 72/80V 125A	SW/80/B288/P
Battery 80V Controller Size 2 & Size 3 Ametek Einzelschütz 72/80V 200A	SW/180/B204/P
Battery 80V Controller Size 4 Ametek Einzelschütz 72/80V 400A	SW/200/21/P
Battery 96V Size 1 Ametek Einzelschütz 96V 100A	SW/80/B222/P
Battery 96V Controller Size 2 & Size 3 Ametek Einzelschütz 96V 200A	JBA4673HB00
Battery 96V Controller Size 4 Ametek Einzelschütz 96V 400A	SW/200/27/P