

Elife-Drive MP Series



This technical review shows the main features and technical information of Elife-Drive MP Series. For further information about this series and the technical datasheets of each model, or to define an evaluation of your needs, please refer to our website to contact us.

The main **key features** include:

- Flexible and scalable, designed to control from 48V to 384V Brushless PMDC and PMSM, Brushed and AC Motors.
- Different types of Feedback Supported:
Resolver, SSI Absolute Encoder, SinCos, Hall Sensors, Incremental Encoder, Fa-Coder, etc.
- Advanced algorithms for predictive speed and torque control and telemetry of the Internal functions
- CANopen[®] communication protocol¹:
CiA[®] DS301 and CiA[®] DSP402 (Profile Velocity Mode, Profile Position Mode, Profile Torque Mode and Homing Mode)
- Electromagnetic Holding Brake Output with DPR System (Dynamic Power Reduction)
- European Conformity CE, designed in accordance with EN 60950-1 safety requirements and EMC standards.

Electrical Box Version:



Dimensions: 250x150x90 mm

Specification:

- ✓ Four Quadrant Regenerative Operation
- ✓ Sinusoidal or Trapezoidal Commutation Methods
- ✓ Fully Configurable and Programmable
- ✓ Emergency Ramp and Safe Torque Off (STO) Input

Main Features:

- ➔ 8 Programmable Single Ended Digital Inputs
- ➔ 5 Programmable 400mA Digital Outputs
- ➔ 2 Programmable 2A Digital Outputs
- ➔ 2 Programmable 0÷10V 12-bit Analog Inputs
- ➔ 1 Programmable 0÷10V 12-bit Analog Output
- ➔ 1 Programmable 5 or 10V - 100mA Throttle Output

Options:

- ➔ Internal DC-DC - Programmable 12 or 24V - 4A
- ➔ 120A PWM Output for External Braking Resistor

Table 1: Elife-Drive MP Series is available for different Supply Voltages and Phase Currents

| PHASE CURRENT * | NOMINAL VOLTAGE SUPPLY - MAX MOTOR POWER | | | | |
|-----------------|--|-----------------|------------------|-------------------|-------------------|
| | 24V - 14kW | 48V - 28kW | 96V - 57kW | 192V - 115kW | 384V - 230kW |
| | from 10V to 34V | from 32V to 68V | from 56V to 150V | from 130V to 300V | from 260V to 500V |
| up to 300 Arms | ----- | ----- | ----- | MP192-300-115-x | MP384-300-230-x |
| up to 600 Arms | ----- | ----- | MP96-600-57-x | ----- | ----- |
| up to 800 Arms | MP24-800-14-x | MP48-800-28-x | ----- | ----- | ----- |

* The value of the maximum continuous (60 min) RMS phase current is ensured with an appropriate heat sink.



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¹Elife International S.r.l. is a Member of CiA[®] - CAN in Automation