Elife-Drive MR Series



This technical review shows the main features and technical information of Elife-Drive MR 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 12V to 96V Brushless PMDC and PMSM, Brushed and AC Motors. (for more Power, more Voltage or more Phase Current you can choose the controller of the Elife-Drive MP Series)
- 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 €, 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

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

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

	Nominal Voltage Supply - Max Motor Power			
	12V - 5kW	24V - 10kW	48V - 20kW	96V - 40kW
Phase Current*	from 10V to 22V	from 16V to 34V	from 28V to 75V	from 65V to 150V
up to 100 Arms	MR12-100-5-x	MR24-100-10-x	MR48-100-20-x	MR96-100-40-x
up to 200 Arms	MR12-200-5-x	MR24-200-10-x	MR48-200-20-x	MR96-200-40-x
up to 300 Arms	MR12-300-5-x	MR24-300-10-x	MR48-300-20-x	MR96-300-40-x
up to 400 Arms	MR12-400-5-x	MR24-400-10-x	MR48-400-20-x	MR96-400-40-x

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



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