

# Elife-Drive M4896-10 Type



This technical review shows the main features and technical information of Elife-Drive M4896-10 Type. For further information about this model and its applications, or to define an evaluation of your needs, please refer to our website to contact us.

The main **key features** include:

- Designed to drive **traction** Brushless, Brushed and AC Motors.
- The different types of feedback are supported: **Absolute Resolver**, *SinCos*, *Hall Sensors*, *Sensorless*, *Incremental Encoder*, *Tachometer*.
- Advanced algorithms for predictive speed and torque control.
- Telemetry of the Internal functions
- CANopen<sup>®</sup> communication protocol<sup>1</sup>: CiA<sup>®</sup> DS301 and CiA<sup>®</sup> DSP402 (Interface Profile Velocity, Profile Position Mode and Torque Profile Mode)
- Electromagnetic Holding Brake Output with DPR System (Dynamic Power Reduction)
- Designed for high voltage applications.
- European Conformity **CE**, and designed and tested in accordance with the **EMC** emission (EN 61000-6-4) and immunity (EN 61000-6-2) standards.
- Elife-Drive M Series is compliant with EN 60950-1 safety requirements.

## Specification:

- Four Quadrant Regenerative Operation
- Space Vector Modulation Technology
- Sinusoidal and Trapezoidal Commutation Methods
- Programmable Gain Setting
- Fully Configurable Velocity and Position Limits
- On-the-fly Mode and Gain Set Switching
- Emergency Ramp and Safe Torque Off (STO) Input

## Programmable Input/Output:

- 2 Programmable High Powered Digital Outputs
- 1 Programmable 0÷10 V 12-bit Analog Output
- 2 Programmable 0÷10 V 12-bit Analog Inputs
- 8 Programmable Digital Inputs Single Ended
- 5 Programmable Digital Outputs Singled Ended

## Electrical Box Version:



It's also available a configuration with Cooling Fan.

**Table 1:** Description of Elife-Drive M4896-10 Type.

	VALUE
<b>Nominal Power Supply Voltage:</b> (Operating Range)	96 V (from 43 to 150 V)
Continuous RMS Motor Output Current <sup>a</sup> :	<b>up to 200 A</b>
Available Power:	<b>up to 10 kW</b>
PWM Operating Frequency <sup>b</sup> :	6103 / 16000 Hz
Electrical Insulation at Heat Sink:	500 V (minimum)
Digital Input Pin Voltage:	up to 36 V
Digital Input Pin Current:	1.0 mA @24 V
Digital Output Pin Voltage:	up to 36 V
Digital Output Pin Current:	up to 250 mA
Power Output Voltage: (for brake and power relay)	From 6 to 30 V
Power Output Current: (for brake and power relay)	up to 2 A
Analog Input/Output Voltage:	From 0 to 10 V
Package Environmental Rating:	IP 66
Weight:	4.1 kg
Dimensions H x W x D:	250x150x90 mm (Electrical Box Version) 250x190x150 mm (with Fan Cooler)

<sup>a)</sup> The value of the maximum continuous (60 min) RMS phase current is ensured with an appropriate heat sink.

<sup>b)</sup> The PWM frequency can be chosen by the user.



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