

# Elife-Drive MV Series

768 V Nominal (900 V max) - 250 A - 190 kW



This technical review shows the main features and technical information of Elife-Drive MV Series.

For further information about this series and 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 400V to 900V 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 protocol<sup>1</sup>: CiA® DS301 and CiA® DSP402  
(Profile position mode, Profile velocity mode, Profile torque mode, Cyclic sync position mode, 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:



### 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

**Dimensions:** 250x150x90 mm

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

	NOMINAL VOLTAGE SUPPLY - VOLTAGE RANGE - MAX MOTOR POWER				
	12/48 V	96 V	144 V	192/384 V	768 V
<b>PHASE CURRENT *</b>	from 10 to 68 V from 5 to 20 kW	from 44 to 150 V 40 kW	from 90 to 200 V 50 kW	from 130 to 500 V from 70 to 140 kW	from 400 to 900 V 190 kW
<b>up to 250 Arms</b>	-----	-----	-----	-----	MV768-250-x
<b>up to 350 Arms</b>	-----	-----	MV144-350-x	MV192/384-350-x	-----
<b>up to 400 Arms</b>	-----	MV96-400-x	-----	-----	-----
<b>up to 500 Arms</b>	MV12/48-500-x	-----	-----	-----	-----

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



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<sup>1</sup>Elife International S.r.l. is a Member of CiA® - CAN in Automation