MIBL



Brushless controller for synchronous permanent magnet motors



MIBLs are compact power controllers/variators (drivers) intended for the control of electronically commutated (brushless) motors.

These controllers can control motors from ten Watts to several hundred Watts in the 4 quadrants. Positioning and phase switching is ensured by hall effect sensors.

The controllers are highly adaptive to your needs, by their configuration capacity accessible by a software suite. Thus MIBLs are perfectly suited to perform variable speed, positioning or torque control.

Communication and fieldbus protocols are based on industrial standards: RS485, USB, Analog control. To facilitate implementation, the IHM_MIBL software suite allows easy configuration.

Axis control is done by analog command or by digital bus, for motor control in Voltage (V), in Torque (I), or in Speed.



	MIBL	
Power supply	20-50 V	
Motor current	MIBL0510: from 0 to 10 AMPERES	
	MIBL0520 : from 0 to 20 AMPERES	
Logic inputs	Energy, Direction (optoisolated)	
	Limits & home	
Differential analog control	Absolute mode 0 to 5V or signed mode	
	-5V0+5V	
Logic outputs	Optoisolated : Fault and Speed	
Encoder supply voltage	+5 VDC, max. 50 mA	
Display	1 LED dual color	
Protections and control	Motor overcurrent, temperature,	
	Undervoltage, overvoltage,	
	Encoder feedback fault	
Communication	USB/RS485	
Dimensions	120 x 90 x 30 mm	
Weight	210g	
Certifications	← Marking, Printed circuits	





• MIBL0510 (brushless controller)

For motors up to 10AMP

• MIBL0520 (brushless controller)

For motors up to 20AMF



- > Voltage(V) torque(I) speed(N) control
- > Optimized current management
- > Communication and configuration by RS485 o
- > Simplified analog or digital contro
- > Motor and system settings
- > Control registers

MIDI INGENIERIE

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Easy Setup:

- Self-powered card via USB port
- Intuitive electronic control configuration :
 - ♦ Electromechanical parameters (motors and load) saved in library
 - ♦ Regulation parameters defined by the MMI

Electrical interfaces:

FRONT FACE				
Power connector	5.08mm	3 pôles		
	+Valim, 0V, GND			
Control connector	3.5mm	16 poles		
	Inputs: energy, direction, stop, analog			
	Outputs : fault, speed			
	Communication : RS485			
USB connector	Micro USB-B			

REAR SIDE				
Motor connector	5.08mm	9 pôles		
	motor power			
	hall sensor			
	+5V, 0V, GND			

Mecanical drawings:



