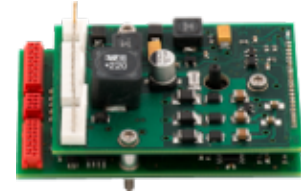


MB-30-P



Controller for brushless/sensorless motor

- ✓ Rotational speed from 1000 to 40000rpm, CW and CCW.
- ✓ Designed to drive the serie 30' of Dassym brushless/sensorless motors (MO-33).
- ✓ Current limitation from 500mA to 7000mA.
- ✓ Foot switch management (at hardware and software levels).
- ✓ Automatic storage of the working configuration.
- ✓ Ability to manage up to 8 devices (different motors, curing lights, ...)
- ✓ 15 user memories for working configurations.
- ✓ 3 speed control modes : direct, electric (analog input) or pneumatic (integrated pressure captor).
- ✓ Automatic light control (selectable light shutdown delay when motor stopped).
- ✓ Two high speed serial interface with comprehensive DAPI-2 protocol for fine control and survey of the MB-30 board.
- ✓ Easy board reconfiguration through the standard communication interface (DAPI-2).
- ✓ Multiple I/O connectors and expansion capabilities :
 - 2 × Analog input (0 to 3.3V)
 - 4 × General purpose I/O
 - I²C interface
 - 2 × RS-232 interfaces

Board data

Dassym reference	251.30.002
Power supply type	DC
Power supply voltage	32 V
PCB material	FR4
PCB Thickness	1.6 mm
Copper thickness	0.35 μm
Number of layers of PCB	4
Micromicrocontroller	STM32F103 (ARM7/CortexM3)
E ² PROM size	32 kB
Application Programming Interface	DAPI-2
Extend connector features	I ² C, 4×GPIO, 2×Analog

Motor output electrical characteristics

Maximum voltage	32 V
Maximum current	7 A
Maximum power	220 W

Light output electrical characteristics

Lighting type	LED
Maximum light voltage	3.3 V
Maximum light current	0.6 A
Maximum light power	1.2 W

Dimensions

Length	69 mm
Width	46 mm
height	24 mm
Weight	38 g