

Motion Controllers

V2.5, 4-Quadrant PWM
with RS232 or CAN interface

MCLM 3006 S

Values at 22°C		MCLM 3006 S	
Power supply electronic	U_B/U_{EL}	12 ... 30	V DC
Power supply motor ¹⁾	$-/U_B$	0 ... 30	V DC
PWM switching frequency	f_{PWM}	78,12	kHz
Efficiency electronic	η	95	%
Max. continuous output current	I_{cont}	6	A
Max. peak output current ²⁾	I_{max}	10	A
Standby current for electronic (at $U_B=24V$)	I_{el}	0,06	A
Operating temperature range		-40 ... +85	°C
Housing material		zinc, black coated	
Mass		160	g

¹⁾ Only available for option 3085 (separate power supply)

²⁾ S2 mode for max. 9s

Interfaces	MCLM 3006 S RS	MCLM 3006 S CF	MCLM 3006 S CO
Interface	RS232	CAN (FAULHABER channel)	CAN (CiA)
Protocol	FAULHABER - ASCII	CANopen	CANopen

Basic features

- Operation of brushless linear DC-Servomotors
- Supported sensor systems: analog Hall sensors
- Positioning resolution when using analog Hall sensors as position encoder: 3000 increments per revolution
- Max. 3 digital inputs, max. 1 digital output, 1 analog input. Not all I/Os available depending on wiring
- Setpoint specification via fieldbus, quadrature signal, pulse and direction or analog inputs
- Optional stand-alone operation via application programs with the RS232 interface version

Range of functions

Operating modes (RS and CF Versions)	Position, speed and torque control with setpoint specification via interface or analog. Position control with Gearing Mode or stepper motor operation. Operation as Servo Amplifier in voltage controller mode
Operating modes (CF and CO Versions)	Profile Position Mode (PP), Profile Velocity Mode (PV), Homing Mode.
Velocity range	2 mm/s ... 10 000 mm/s
Application programs	Available in versions with RS232 interface
Additional functions	Overload protection for electronics and motor, self-protection from overheating, over-voltage protection in generator mode.
Indicator	Trace as logger
Motor types	Brushless Linear DC-Servomotors with analog Hall sensors

