

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	UB/UEL	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	İcont	6	Α
Max. peak output current 2)	I max	10	Α
Standby current for electronic (at $U_B=24V$)	I el	0,06	Α
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

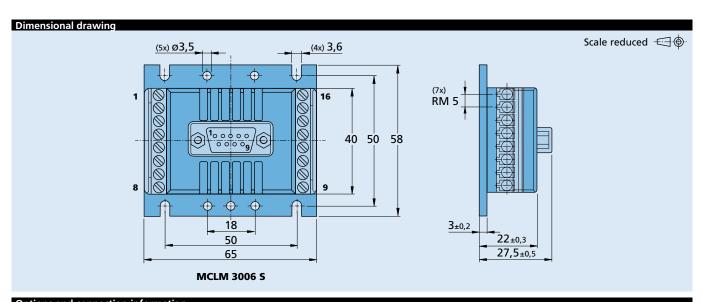
Interfaces	MCLM 3006 S RS	MCLM 3006 S CO
Interface	RS232	CAN (CiA)
Protocol	FAULHABER - ASCII	CANopen

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 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 (CO Version)	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, overvoltage protection in generator mode.
Indicator	Trace as logger
Motor types	Brushless Linear DC-Servomotors with analog Hall sensors





	nd connection in			
Example p	oroduct designati	on: MCLM 3006 S RS 3085		
Option	Туре	Description	Connection	
			No. Function	No. Function
3085	Supply	Separate power supply for motor and electronics	1 TxD / CAN_H	9 Sensor A
			2 RxD / CAN_L	10 Sensor B
			3 AGND	11 Sensor C
			4 Fault	12 <i>Ucc</i>
			5 AnIn	13 SGND
			6 <i>U</i> _B	14 Motor A
			7 GND	15 Motor B
			8 3. In	16 Motor C
			D-SUB connector	
			RS-232	CAN
			No. Function	No. Function
			2 RxD	2 CAN_L
			3 TxD	3 GND
			5 GND	5 -
			7 -	7 CAN_H
			Note: For details on	the connection assignment,
			see device manual M	

Product combination			
	Linear DC-Servomotors	Cables / Accessories	
	LM 1247 11 LM 1483 11 LM 2070 11	To view our large range of accessory parts, please refer to the "Accessories" chapter.	