

Motion Controllers

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

MCLM 3002 S

Values at 22°C		MCLM 3002 S	
Power supply electronic	UB/UEL	8 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	Icont	2	Α
Max. peak output current 2)	I max	3	Α
Standby current for electronic (at $U_B=24V$)	l el	0,04	Α
Operating temperature range		-25 +85	°C
Housing material		Hotmelt	
Mass		16	g

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

²⁾ S2 mode for max. 5s

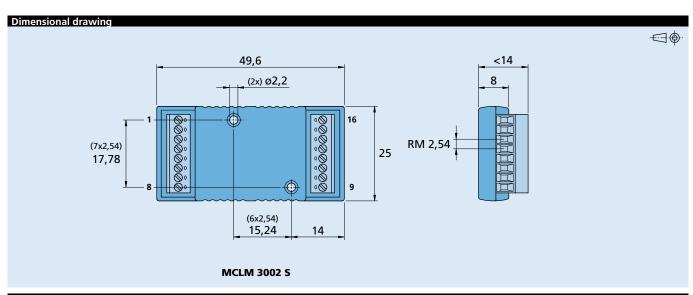
Interfaces	MCLM 3002 S RS	MCLM 3002 S CO
Interface	RS232	CAN (CiA)
Protocol	FAULHABER - ASCII	CANopen

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

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
Profile Position Mode (PP), Profile Velocity Mode (PV), Homing Mode.
Cyclic Synchronous Position Mode (CSP) acc. to IEC 61800-7-201 or IEC 61800-7-301.
2 mm/s 10 000 mm/s
Available in versions with RS232 interface
Overload protection for electronics and motor, self-protection from overheating, overvoltage protection in generator mode.
Trace as logger
Brushless Linear DC-Servomotors with analog Hall sensors





Options and connection information						
Example product designation: MCLM 3002 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 Ucc			
			5 AnIn 13 SGND			
			6 UB 14 Motor A			
			7 GND 15 Motor B			
			8 3. In 16 Motor C			
			Note: For details on the connection assignment, see device manual MC.			
			see device manual ivic.			

Product combination		
Linear DC-Servomotors	Cables / Accessories	
LM 0830 01 LM 1247 11 LM 1483 11	To view our large range of accessory parts, please refer to the "Accessories" chapter.	