

## **Motion Controllers**

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

## **MCDC 3006 S**

Values at 22°C		MCDC 3006 S	
Power supply electronic	UB/UEL	12 30	V DC
Power supply motor 1)	/U <sub>B</sub>	0 30	V DC
PWM switching frequency	$f_{PWM}$	78,12	kHz
Efficiency electronic	η	95	%
Max. continuous output current	<b>I</b> cont	6	Α
Max. peak output current 2)	<b>I</b> max	10	Α
Standby current for electronic (at $U_B=24V$ )	<b>l</b> el	0,06	Α
Operating temperature range		-40 +85	°C
Housing material		zinc, black coated	
Mass		160	g

<sup>1)</sup> Only available for option 3085 (separate power supply)

<sup>&</sup>lt;sup>2)</sup> S2 mode for max. 9s

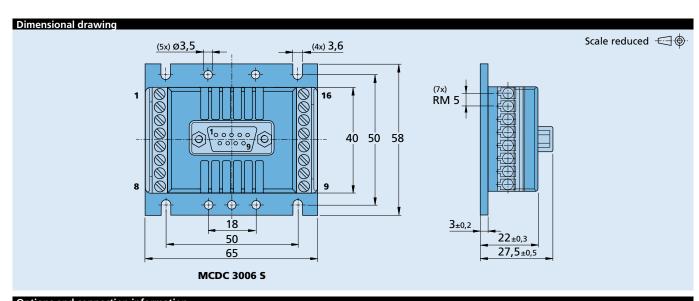
Interfaces	MCDC 3006 S RS	MCDC 3006 S CO
Interface	RS232	CAN (CiA)
Protocol	FAULHABER - ASCII	CANopen

## **Basic features**

- Operation of brushed DC-Micromotors
- Supported sensor systems: incremental encoders
- Positioning resolution per revolution depending on the used encoder type
- Max. 5 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.
Speed range	5 min <sup>-1</sup> 30 000 min <sup>-1</sup>
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.
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Indicator	Trace as logger
Motor types	Brushed DC-Micromotors with incremental encoders





Options a	nd connection info	rmation		
Example p	product designation:	: MCDC 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 5. In
			2 RxD / CAN_L	10 4. In
			3 AGND	11 Ch A
			4 Fault	12 Ch B
			5 AnIn	13 <i>Ucc</i>
			6 U <sub>B</sub>	14 SGND
			7 GND	15 Mot +
			8 3. ln	16 Mot -
			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 t	the connection assignment,
			see device manual Mo	

Product combination	
DC-Motors	Cables / Accessories
1741 CXR 2224 SR 2230 S 2232 SR 2233 S 2237 CXR 2342 CR 2642 CR 2642 CR 2657 CR 2657 CR 2657 CR 2658 CR 3242 CR 3242 CR 3242 CR 3257 CR 3268 CR 3272 CR 3272 CR 3890 CR	To view our large range of accessory parts, please refer to the "Accessories" chapter.