

Motion Controllers

CiA402 servo drive, 4-Quadrant PWM
with RS232, CANopen or EtherCAT interface

MC 3602 B

Values at 22°C		MC 3602 B	
Power supply electronic	U_P	6 ... 36	V DC
Power supply motor	U_{mot}	0 ... 36	V DC
PWM switching frequency	f_{PWM}	100	kHz
Efficiency electronic	η	95	%
Max. continuous output current ¹⁾	I_{cont}	2	A
Max. peak output current ²⁾	I_{max}	6	A
Standby current for electronic (@ $U_P=24V$)	I_{el}	0,05	A
Operating temperature range		-40 ... +85	°C
Mass		18	g

¹⁾ $I_{cont} = 3A @ U_{mot} = 24V$

²⁾ S2 mode for max. 2s

Interfaces	MC 3602 B RS/CO	MC 3602 B ET
Configuration from Motion Manager 7	RS232 / CANopen / USB	RS232 / USB
Fieldbus	RS232 / CANopen	EtherCAT (only with additional EtherCAT module EB MC ET ADDON)


Basic features

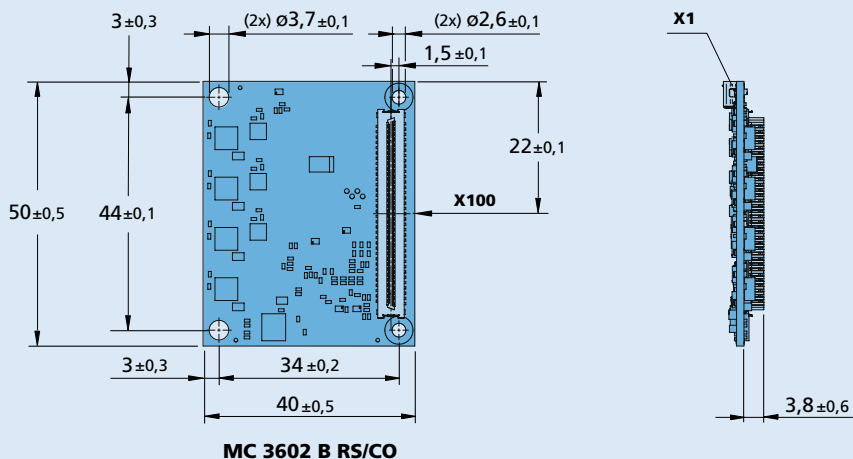
- Control of brushless, stepper, DC- and linear motors
- Supported sensor systems: absolute encoders, incremental encoders (optical or magnetic), Hall sensors (digital or analog), tachometers
- Positioning resolution when using analog Hall sensors as position encoder: 4096 increments per revolution
- 3 digital inputs, 2 digital outputs, 2 analog inputs, flexible configuration
- Setpoint specification via fieldbus, quadrature signal, pulse and direction or analog inputs
- Optional stand-alone operation via application programs in all interface versions

Range of functions

Operating modes	PP, PV, CSP, CSV, CST and homing acc. to IEC 61800-7-201 or IEC 61800-7-301 as well as position-, speed- and torque control via analog setpoint or voltage controller
Speed range for brushless motors with number of pole pairs 1	0 min ⁻¹ ... 30 000 min ⁻¹ with sinusoidal commutation (optionally to 60 000 min ⁻¹ with block commutation)
Application programs	Max. 8 application programs (BASIC), one of which is an autostart function
Additional functions	Touch-probe input, connection of a second incremental encoder, control of a holding brake
Indicator	LEDs for displaying the operating state Trace as recorder (scope function) or logger
Motor types	DC, BL, stepper- and linear motors

Dimensional drawing

Scale reduced 



Options and connection information

Example product designation: MC 3602 B RS/CO

Option	Type	Description	Connection		
			Name	Function	Description
			X1	USB Micro B connector	
			X100	Micro board to board connector	Analog and digital input/output, motor and electronic power supply, fieldbus, motor phases, sensors
					Part No.:
				Evaluationboard MC3602 / MC3606 ET	6500.01903
				Evaluationboard MC3602	6500.01925
				EtherCAT module EB MC ET ADDON	6500.00494

Note: For details on the connection assignment, see device manual for the MC 3602 B.
For details on evaluationboard connections and functions see device manual MC 3602 B.

Product combination

DC-Motors		Brushless DC-Motors	Linear DC-Servomotors	Stepper Motors
1319 ... SR	3257 ... CR	1218 ... B	LM 0830 ... 01	DM0620
1331 ... SR		1226 ... B	LM 1247 ... 11	AM0820
1336 ... CXR		1628 ... B	LM 1483 ... 11	AM1020
1516 ... SR		1645 ... BHS	LM 2070 ... 11	DM1220
1524 ... SR		1660 ... BHS		AM1524
1717 ... SR		1660 ... BHT		AM2224
1724 ... SR		2036 ... B		AM2224R3
1727 ... CXR		2057 ... B		AM3248
1741 ... CXR		2214 ... BXT H		DM40100R
2224 ... SR		2232 ... BX4		
2232 ... SR		2250 ... BX4		
2237 ... CXR		2444 ... B		
2342 ... CR		3056 ... B		
2642 ... CR		3216 ... BXT H		
2642 ... CXR		3242 ... BX4		
2657 ... CR		3268 ... BX4		
2657 ... CXR	3564 ... B			
2668 ... CR				
3242 ... CR				