

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
MTTF ³⁾		450 000	h
Operating temperature range		-40 ... +85	°C
Mass		18	g

¹⁾ $I_{cont} = 3A @ U_{mot} = 24V$

²⁾ S2 mode for max. 2s

³⁾ „Mean time to failure“ at maximum operating condition

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

