

# Motor controller CMMS-ST-C8-7-G2

Part number: 572211

**FESTO**



## Data sheet

Feature	Value
Type of mounting	On sub-base Screwed tightly
Product weight	2000 g
Display	Seven-segment display
Control elements	DIL switch
Certification	BIA C-Tick c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive As per EU RoHS directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC To UK instructions for machines To UK RoHS instructions
Certificate issuing authority	BG MFS 09031
Storage temperature	-25 °C ... 70 °C
Ambient temperature	0 °C ... 50 °C
Relative air humidity	0 - 90 % Non-condensing
Degree of protection	IP20
Contamination level	2
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Nominal current load supply	8 A
Peak current, load supply	12 A
Line filter	Integrated
Nominal voltage, load supply DC	48 V
Max. DC link voltage	58 V
Braking resistor	17 Ohm
Pulse power of braking resistor	0.5 kVA
Nominal voltage, logic supply DC	24 V
Permissible range of logic voltage	± 20 %
Nominal current, logic supply	0.2 A
Output voltage range AC	0 V up to input voltage
Max. peak current duration	2 s
Output frequency	0 Hz ... 2000 Hz
Max. length of motor cable without ext. mains filter	25 m
Controller operating mode	PWM MOSFET power output stage

Feature	Value
Mode of operation	Micro step, >4000 steps/revolution
Adjustable current reduction	Via software
Step adjustment	Via software
Protective function	I <sup>2</sup> t monitoring Temperature monitoring Current monitoring Voltage failure detection Contouring error monitoring
Nominal current setting	Via software
Max. step frequency	4 kHz
Parameterization interface	RS232 (9600...115000 bits/s)
Fieldbus coupling	CANopen Profibus DP
Bus connection	Plug 9-pin Sub-D
Bus terminal resistance	Integrated
Rotor position sensor	Encoder
Position sensor	Encoder
Output encoder interface, function	Setpoint specification for downstream slave actuator.
Encoder interface input, characteristics	RS422
Input encoder interface, function	As speed setting of the slave actuator in synchronous mode.
Characteristics of digital logic outputs	Freely configurable in some cases Not galvanically isolated
Max. current of digital logic outputs	100 mA
Number of analog setpoint inputs	1
Work range of setpoint input	± 10 V
Impedance of setpoint input	20 kOhm
Number of analog monitor outputs	1
Working range of monitor outputs	± 10 V
Safety function	Safe torque off (STO)
Performance Level (PL)	Safe torque off (STO)/category 3, performance level d