

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

Part number: 572211

FESTO



## Data sheet

Feature	Value
Type of mounting	On sub-base Screw-clamped
Product weight	2000 g
Display	7-segment display
Operator controls	DIP switch
Approval	BIA C-Tick c UL us listed (OL)
CE mark (see declaration of conformity)	To EU EMC Directive To EC Machinery Directive In accordance with EU RoHS Directive
CE marking (see declaration of conformity)	To UK instructions for EMC To UK regulations 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
Pollution degree	2
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364-B2-L
Nominal current, load supply	8 A
Peak current load power supply	12 A
Mains filter	Integrated
Nominal voltage load voltage DC	48 V
Max. intermediate circuit voltage DC	58 V
Brake resistance	17 Ohm
Pulse power, brake resistance	0.5 kVA
Nominal voltage for logic power supply DC	24 V
Permissible range for logic voltage	± 20 %
Nominal current logic power supply	0.2 A
Output voltage class AC	0 V up to input voltage

Feature	Value
Max. peak current duration	2 s
Output frequency	0 Hz...2000 Hz
Max. length of motor cable without external mains filter	25 m
Controller operating mode	PWM MOSFET power output stage
Operating mode of drive unit	Microschritt, >4000 Schritt/U
Adjustable current reduction	Via software
Step adjustment	Via software
Protective function	I <sup>2</sup> t monitoring Temperature monitoring Current monitoring Voltage failure detection Following error monitoring
Nominal current setting	Via software
Max. step frequency	4 kHz
Parameterisation interface	RS232 (9600...115000 bits/s)
Fieldbus link	CANopen Profibus DP
Bus connection	Plugs 9-pin Sub-D
Bus terminator resistor	Integrated
Rotor position sensor	Encoder
Position sensor	Encoder
Encoder interface output, function	Setpoint specification for downstream slave drive.
Encoder interface input, features	RS422
Encoder interface input, function	Specifies the speed of the slave drive in synchronous mode.
Features of digital logic outputs	Freely configurable in some cases Not galvanically isolated
Max. current digital logic outputs	100 mA
Number of analogue setpoint inputs	1
Working range setpoint input	± 10 V
Impedance of setpoint input	20 kOhm
Number of analogue 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