

Motor controller CMMS-ST-C8-7

Part number: 547454

FESTO

For stepper motor



Data sheet

Feature	Value
Controller operating mode	PWM-MOSFET power output stage
Operating mode	Micro step, >4000 step/U
Adjustable current reduction	Using software
Position sensor	Encoder
Mains filter	Integrated
Step adjustment	Using software
Protective function	I ² t monitoring Temperature monitoring Current monitoring Voltage failure detection Drag error monitoring
Rotor position sensor	Encoder
Display	Seven-segment display
Control elements	DIP switch
Nominal current adjustment	Using software
Max. step frequency	4 kHz
Braking resistance	17 Ohm
Bus terminating resistor	Integrated
Digital logic output characteristics	Freely configurable to a given extent Not electrically isolated
Setpoint input impedance	20 kOhm
Braking resistance pulse power	0.5 kVA
Max. current, digital logic outputs	100 mA
Max. peak current duration	2 s
Max. intermediate circuit voltage, DC	48 V
Nominal DC voltage, logic power supply	24 V
Nominal voltage, load supply DC	48 V
Nominal current, load supply	8 A
Nominal current, logic supply	0.3 A
Parameters configuring interface	RS232 (9600...115000 Bits/s)
Peak current, load supply	12 A
Permissible range, logic voltage	± 20 %
CE mark (see declaration of conformity)	to EU directive for EMC
Storage temperature	-25 ... 70 °C
Relative air humidity	0 - 90 % non-condensing
Protection class	IP20
Ambient temperature	0 ... 50 °C
Authorisation	C-Tick
Product weight	2,000 g
Number of analogue monitor outputs	1
Number of analogue setpoint inputs	1
Monitor output working range	± 10 V
Setpoint input working range	± 10 V

Feature	Value
Encoder interface input, characteristics	RS422
Encoder interface output, function	Setpoint specification for downstream slave drive unit
Encoder interface input, function	In synchronous operation as specified speed in RPM for the slave drive unit
Bus connection	CAN interface D-Sub 9-pin
Fieldbus coupling	CANopen Profibus DP
Mounting type	Tightened On sub-base