

motor controller CMMP-AS-C5-3A-M0

Part number: 1622902

FESTO



Data sheet

Feature	Value
Mounting type	On sub-base Tightened
Product weight	2,200 g
Display	Seven-segment display
Authorisation	RCM Mark c UL us - Listed (OL)
CE mark (see declaration of conformity)	to EU directive for EMC to EU directive for machinery in accordance with 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 department	German Technical Control Board (TÜV) Rheinland 01/205/5262.02/19 TÜV Rheinland UK Ltd. 01/205U/5262.00/22
Storage temperature	-25 ... 70 °C
Ambient temperature	0 ... 40 °C
Relative air humidity	0 - 90 %
Protection class	IP10 IP20
Degree of contamination	2
Materials note	Conforms to RoHS
PWIS conformity	VDMA24364 zone III
Nominal operating voltage, phases	Single-phase
Nominal operating voltage, AC	230 V
Permissible voltage fluctuation	+/- 10 %
Input voltage range AC	100 ... 230 V
Line frequency	50 ... 60 Hz
Nominal current	4 ... 6 A
Active PFC	Yes
Mains filter	Integrated
Max. intermediate circuit voltage, DC	320 V
Braking resistance	60 Ohm
Braking resistance pulse power	2.8 kVA
Nominal DC voltage, logic power supply	24 V
Permissible range, logic voltage	± 20 %
Current consumption, logic power supply without clamping brake	0.65 A
Output voltage range AC	3x 0 - 270 V
Nominal output current	5 A
Effective nominal current per phase	5 A
Effective peak current per phase	10 A
Max. peak current duration	5 s
Nominal controller power	1,000 VA
Peak power	2,000 VA
Output frequency	0 ... 1,000 Hz
Parameters configuring interface	Parameters configuration and commissioning USB

Feature	Value
	Ethernet
Fieldbus coupling	CANopen Modbus/TCP
Communications profile	DS301/DSP402
Process interface	I/O coupling For 256 position sets
Max. fieldbus transmission speed	1 Mbit/s
Bus connection	Plug 9-pin Sub-D
Encoder interface output, characteristics	Resolution 16384 ppr
Encoder interface output, function	Actual value feedback via encoder signals in speed control mode Setpoint specification for downstream slave drive unit
Encoder interface input, characteristics	3-phase encoding signals EnDat HIPERFACE RS422 SINCOS
Encoder interface input, function	Encoder signal, speed setpoint in RPM In synchronous operation as specified speed in RPM for the slave drive unit
Number of digital logic inputs	10
Logic input characteristics	Electrically isolated Freely configurable
Logic input working range	8 ... 30 V
Number of 24 V DC digital logic outputs	5
Digital logic output characteristics	Electrically isolated Freely configurable to a given extent
Max. current, digital logic outputs	100 mA
Number of analogue setpoint inputs	2
Setpoint input characteristics	Differential inputs Can be configured for speed in RPM Can be configured for current
Setpoint input working range	± 10 V
Setpoint input impedance	20 kOhm
Number of analogue monitor outputs	2
Monitor output working range	± 10 V
Monitor output resolution	9 Bit
Monitor output characteristics	Short-circuit proof
Safety function	Safe torque off (STO) Safe stop 1 (SS1)
Safety Integrity Level (SIL)	Safe torque off (STO)/SIL 3/SILCL 3
Performance level (PL)	Safe Torque off (STO)/Category 4, Performance Level e
Diagnostic coverage	97 %
SFF Safe Failure Fraction	99.17 %
Hardware fault tolerance	1
Proof test interval	20 a