

# Motor controller CMMP-AS-C2-3A-M0

Part number: 1622901

FESTO



## Data sheet

Feature	Value
Type code	CMMP-AS
Active PFC	yes
Line filter	Integrated
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
Display	Seven-segment display
Output frequency	0 Hz ... 1000 Hz
Output voltage range AC	3x 0 - 270 V
Braking resistor	60 Ohm
Diagnostic coverage	97 %
Characteristics of digital logic outputs	Galvanically isolated Freely configurable in some cases
Hardware fault tolerance	1
Impedance of setpoint input	20 kOhm
Pulse power of braking resistor	2.8 kVA
Max. current of digital logic outputs	100 mA
Max. peak current duration	5 s
Max. DC link voltage	320 V
Nominal output current	2.5 A
Nominal operating voltage AC	230 V
Controller nominal power	500 VA
Nominal voltage, logic supply DC	24 V
Nominal current	2 A ... 3 A
Nominal current per phase, effective	2.5 A
Mains frequency	50 Hz ... 60 Hz
Parameterization interface	Parameterization and commissioning USB Ethernet
Nominal operating voltage phases	1-phase
SFF safe failure fraction	99.17 %
Peak power	1000 VA
Peak current per phase, effective	5 A
Max. current consumption for logic supply without clamping brake	0.55 A
Contamination level	2
Permissible range of logic voltage	± 20 %

Feature	Value
Permissible voltage fluctuations	+/- 10 %
Certificate issuing authority	01/205/5162.02/19 German Technical Control Board (TÜV) Rheinland
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive As per EU low voltage directive As per EU RoHS directive
Storage temperature	-25 °C ... 70 °C
Relative air humidity	0 - 90 %
Degree of protection	IP10 IP20
Ambient temperature	0 °C ... 40 °C
Certification	RCM compliance mark c UL us - Listed (OL)
Proof test interval	20 y
Product weight	2100 g
Number of analog monitor outputs	2
Number of analog setpoint inputs	2
Number of digital logic outputs 24 V DC	5
Number of digital logic inputs	10
Communication profile	DS301/DSP402
Process interfacing	I/O coupling For 256 positioning blocks
Work range of logic input	8 V ... 30 V
Working range of monitor outputs	± 10 V
Work range of setpoint input	± 10 V
Resolution of monitor outputs	9 bit
Encoder interface output, characteristics	Resolution 16384 ppr
Encoder interface input, characteristics	3-phase encoder signals EnDat® HIPERFACE RS422 SINCOS
Characteristics of monitor outputs	Short circuit-proof
Characteristics of setpoint inputs	Differential inputs Configurable for rotational speed Configurable for current
Characteristics of logic input	Galvanically isolated Freely configurable
Output encoder interface, function	Actual value feedback via encoder signals in speed control mode. Setpoint specification for downstream slave actuator.
Input encoder interface, function	Encoder signal speed setpoint value. As speed setting of the slave actuator in synchronous mode.
Bus connection	9-pin Sub-D Socket
Fieldbus coupling	CANopen Modbus®/TCP
Max. fieldbus transmission rate	1 Mbit/s
Type of mounting	On sub-base Screwed tightly
Note on materials	Contains paint-wetting impairment substances RoHS-compliant