

# Motor controller CMMP-AS-C2-3A-M3

Part number: 1501325

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                                          | Value                                                                                                                                   |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Type of mounting                                                 | On sub-base<br>Screwed tightly                                                                                                          |
| Product weight                                                   | 2100 g                                                                                                                                  |
| Display                                                          | Seven-segment display                                                                                                                   |
| Certification                                                    | RCM compliance mark<br>c UL us - Listed (OL)                                                                                            |
| CE marking (see declaration of conformity)                       | As per EU EMC directive<br>as per EU machinery directive<br>As per EU low voltage directive<br>As per EU RoHS directive                 |
| UKCA marking (see declaration of conformity)                     | To UK instructions for EMC<br>To UK instructions for machines<br>To UK RoHS instructions<br>To UK instructions for electrical equipment |
| Storage temperature                                              | -25 °C ... 70 °C                                                                                                                        |
| Ambient temperature                                              | 0 °C ... 40 °C                                                                                                                          |
| Relative air humidity                                            | 0 - 90 %                                                                                                                                |
| Degree of protection                                             | IP10<br>IP20                                                                                                                            |
| Contamination level                                              | 2                                                                                                                                       |
| Note on materials                                                | RoHS-compliant                                                                                                                          |
| LABS (PWIS) conformity                                           | VDMA24364 zone III                                                                                                                      |
| Nominal operating voltage phases                                 | 1-phase                                                                                                                                 |
| Nominal operating voltage AC                                     | 230 V                                                                                                                                   |
| Permissible voltage fluctuations                                 | +/- 10 %                                                                                                                                |
| Mains frequency                                                  | 50 Hz ... 60 Hz                                                                                                                         |
| Nominal current                                                  | 2 A ... 3 A                                                                                                                             |
| Line filter                                                      | Integrated                                                                                                                              |
| Max. DC link voltage                                             | 320 V                                                                                                                                   |
| Braking resistor                                                 | 60 Ohm                                                                                                                                  |
| Pulse power of braking resistor                                  | 2.8 kVA                                                                                                                                 |
| Nominal voltage, logic supply DC                                 | 24 V                                                                                                                                    |
| Permissible range of logic voltage                               | ± 20 %                                                                                                                                  |
| Max. current consumption for logic supply without clamping brake | 0.55 A                                                                                                                                  |
| Output voltage range AC                                          | 3x 0 - 270 V                                                                                                                            |
| Nominal output current                                           | 2.5 A                                                                                                                                   |
| Nominal current per phase, effective                             | 2.5 A                                                                                                                                   |
| Peak current per phase, effective                                | 5 A                                                                                                                                     |

| Feature                                   | Value                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Max. peak current duration                | 5 s                                                                                                                       |
| Controller nominal power                  | 500 VA                                                                                                                    |
| Peak power                                | 1000 VA                                                                                                                   |
| Output frequency                          | 0 Hz ... 1000 Hz                                                                                                          |
| Parameterization interface                | Parameterization and commissioning<br>USB<br>Ethernet                                                                     |
| Fieldbus coupling                         | CANopen<br>DeviceNet<br>EtherCAT<br>EtherNet/IP<br>Modbus®/TCP<br>PROFINET<br>Profibus DP                                 |
| Communication profile                     | DS301/DSP402<br>FHPP                                                                                                      |
| Process interfacing                       | I/O coupling<br>For 256 positioning blocks                                                                                |
| Max. fieldbus transmission rate           | 1 Mbit/s                                                                                                                  |
| Bus connection                            | Plug<br>9-pin<br>Sub-D                                                                                                    |
| Encoder interface output, characteristics | Resolution 16384 ppr                                                                                                      |
| Output encoder interface, function        | Actual value feedback via encoder signals in speed control mode.<br>Setpoint specification for downstream slave actuator. |
| Encoder interface input, characteristics  | 3-phase encoder signals<br>EnDat®<br>HIPERFACE<br>RS422<br>SINCOS                                                         |
| Input encoder interface, function         | Encoder signal speed setpoint value.<br>As speed setting of the slave actuator in synchronous mode.                       |
| Number of digital logic inputs            | 10                                                                                                                        |
| Characteristics of logic input            | Galvanically isolated<br>Freely configurable                                                                              |
| Work range of logic input                 | 8 V ... 30 V                                                                                                              |
| Number of digital logic outputs 24 V DC   | 5                                                                                                                         |
| Characteristics of digital logic outputs  | Galvanically isolated<br>Freely configurable in some cases                                                                |
| Max. current of digital logic outputs     | 100 mA                                                                                                                    |
| Number of analog setpoint inputs          | 2                                                                                                                         |
| Characteristics of setpoint inputs        | Differential inputs<br>Configurable for rotational speed<br>Configurable for current                                      |
| Work range of setpoint input              | ± 10 V                                                                                                                    |
| Impedance of setpoint input               | 20 kOhm                                                                                                                   |
| Number of analog monitor outputs          | 2                                                                                                                         |
| Working range of monitor outputs          | ± 10 V                                                                                                                    |
| Resolution of monitor outputs             | 9 bit                                                                                                                     |
| Characteristics of monitor outputs        | Short circuit-proof                                                                                                       |