Servo drive
CMMT-AS-C4-3A-MP-S1

Part number: 8143164



Data sheet

Feature	Value
Type of mounting	Mounting plate, screwed on
Mounting position	Open convection Vertical
Product weight	1400 g
Display	Green/yellow/red LED
Control elements	Optional: Operator unit CDSB
Conforms to standard	EN 61800-3 EN 61800-5-1 EN 61800-5-2 EN ISO 13849-1
Based on norm	EN 50581 EN 60204-1 EN 61508-1 EN 61508-2 EN 61508-3 EN 61508-4 EN 61508-5 EN 61508-6 EN 61508-7 EN 61800-2 EN 62061
Certification	RCM compliance mark TÜV c UL us - Listed (OL)
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive As per EU RoHS directive
Storage temperature	-25 °C...55 °C
Ambient temperature	0 °C...50 °C
Note on ambient temperature	Above an ambient temperature of 40 °C, the power must be reduced by 3%/°C.
Relative air humidity	5 - 90% Non-condensating
Max. installation height	2000 m
Information on max. installation height	1% power reduction/100 m above 1000 m.
Degree of protection	IP20
Overvoltage category	III

Feature	Value
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 Zone III
Nominal operating voltage phases	Single-phase
Nominal operating voltage AC	230 V
Permissible voltage fluctuations	-20% / +15%
Max. DC link voltage	395 V
Pulse power of braking resistor	1.6 kVA
Nominal voltage, logic supply DC	24 V
Permissible range of logic voltage	±20%
Max. current consumption for logic supply without clamping brake	0.5 A
Nominal current per phase, effective	4 A
Peak current per phase, effective	12 A
Max. peak current duration	2 s
Controller nominal power	700 W
Peak power	2000 W
Mode of operation	Field-oriented control 24 bit/rev position resolution Sampling rate 16 kHz PWM with 8 or 16 KHz Vector modulation with 3rd harmonic Real-time data acquisition 2x input capture (x, v, F) 2x output trigger (x, v, F) 2x position encoder input 1x SYNC interface for encoder emulation or encoder input
Ethernet interface, function	Parameterization and commissioning
Ethernet interface, protocol	TCP/IP
Fieldbus interface, protocol	EtherCAT EtherNet/IP Modbus/TCP PROFINET IRT PROFINET RT
Fieldbus interface, connection type	2x port
Fieldbus interface, connection technology	RJ45
Encoder interface, function	BiSS-C ENDAT 2.1 encoder ENDAT 2.2-sensor HIPERFACE encoder Incremental encoder Nikon SIN/COS encoder
Encoder interface 2, function	Incremental encoder SIN/COS encoder
Synchronization interface, function	Encoder emulation A/B/Z Encoder input A/B/Z
Input switching logic	PNP (positive switching)
Number of high-speed logic inputs	2
Time resolution of high-speed logic inputs	1 µs
Number of high-speed switching outputs	2
Time resolution of high-speed switching outputs	1 µs
Number of floating switching outputs	1
Max. current of the floating switching outputs	50 mA
Number of analog setpoint inputs	1
Characteristics of setpoint inputs	Differential inputs Configurable for speed Configurable for current/force
Work range of setpoint input	± 10 V
Impedance of setpoint input	70 kOhm
Number of safe 2-pin inputs	2

Feature	Value
Number of diagnostic outputs	2