Servo drive
CMMT-AS-C18-11A-P3-MP-S3

Part number: 8166886



Data sheet

Feature	Value
Type of mounting	Mounting plate, attached with screws
Mounting position	Open convection Vertical
Product weight	4300 g
Display	Green/yellow/red LED
Operator controls	Optional: Operator unit CDSB
Conforms to standard	EN 61800-3 EN 61800-5-1 EN 61800-5-2 EN ISO 13849-1
Based on standard	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
Approval	RCM German Technical Control Board (TÜV) c UL us - Listed (Oil)
CE mark (see declaration of conformity)	To EU EMC Directive To EC Machinery Directive In accordance with EU RoHS Directive
Storage temperature	-25 °C...55 °C
Ambient temperature	0 °C...50 °C
Note on ambient temperature	Power must be reduced by 3% per °C at ambient temperatures above 40°C.
Relative air humidity	5 - 90% Non-condensing
Max. installation height	2000 m
Note on max. installation height	From 1000 m: power reduction by 1% per 100 m.
Degree of protection	IP20
Overvoltage category	III

Feature	Value
Note on materials	RoHS compliant
LABS (PWIS) conformity	VDMA24364 zone III
Phases of nominal operating voltage	3 Phase ~
Nominal operating voltage AC	400 V
Permissible voltage fluctuations	+/-10%
Max. intermediate circuit voltage DC	800 V
Pulse power, brake resistance	24 kVA
Nominal voltage for logic power supply DC	24 V
Permissible range for logic voltage	±20%
Current consumption of logic power supply without clamping brake	0.7 A
Nominal current per phase, effective	18 A
Peak current per phase, effective	54 A
Max. peak current duration	2 s
Controller nominal output	9000 W
Maximum output	27000 W
Operating mode	Field-oriented closed-loop control Position resolution 24 bit/rev. 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	Parameterisation and commissioning
Ethernet interface, protocol	TCP/IP
Field bus, protocol	EtherCAT® EtherNet/IP Modbus/TCP PROFINET IRT PROFINET RT
Field bus, connection type	2x socket
Field bus, connection system	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
Synchronisation interface, function	Encoder emulation A/B/Z Encoder input A/B/Z
Switching logic for inputs	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 analogue setpoint inputs	1
Features of setpoint inputs	Differential inputs Configurable for speed Configurable for current/force
Working range setpoint input	± 10 V
Impedance of setpoint input	70 kOhm
Number of safe 2-pin inputs	4

Feature	Value
Number of diagnostic outputs	4