

# servo drive CMMT-ST-C8-1C-MP-S0

料號: 8163946

★ Kernprogramm

FESTO



## 技術參數

特性	值
安裝類型	使用螺栓的安裝板 具頂部導軌
裝配位置	自由對流 垂直
產品重量	350 g
顯示	LED green/yellow/red
授權	RCM Mark c UL us - Listed (OL)
KC mark	KC-EMV
CE 符號 (參見符合的標準)	根據 EU-EMV 指導原則 根據 EU 機器設備指導原則 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
認證核發部門	TÜV Rheinland 01/205/5696.00/19 TÜV Rh. UK 01/205U/5696.00/22 UL E331130
儲藏溫度	-25 ... 55 °C
環境溫度	0 ... 50 °C
Note on ambient temperature	Observe derating with regard to mounting clearance and output current
相對空氣濕度	5 - 90 % 非冷凝
Max. installation height	2,000 m
防護等級	IP20
安全等級	III
Overvoltage category	I
污染程度	2
材料備註	符合 RoHS
PWIS conformity	VDMA24364 zone III
額定電壓, 負載提供 DC	24 ... 48 V
容許範圍, 負載電源	-15 % / +15 %
最大中間電路電壓, DC	60 V
制動電阻, 外部的	6 Ohm
Max. continuous output of the external braking resistor (IEC)	490 W
額定DC電壓, 邏輯電源	24 V
邏輯電源的容許範圍	± 15 %
電流消耗, 不具夾緊制動的邏輯電源	1 A
Current consumption for logic supply with locking brake	2 A
輸出電壓範圍AC	0 V 輸入電壓
額定輸出電流	8 A
每相的有效額定電流	8 A
每相的有效峰值 (最大) 電流	20 A
最大峰值電流持續時間	3 s
控制器額定功率	300 W
峰值 (最大) 功率	800 W

特性	值
輸出頻率	> 600 Hz
不具外來主要調節器的最大馬達電纜長度	25 m
Max. output current of holding brake	1 A
Max. voltage drop from logic supply to brake output	1 V
控制器操作模式	Cascade controller P 位置控制器 PI 速度控制器 PI current regulator for F or M Profile operation with record and direct mode Interpolated mode via fieldbus Synchronised operating modes Homing Setting-up Autotuning Open-loop operation
操作模式	Field-oriented closed-loop control Position resolution 24 bit/U Real-time data acquisition 2x Input-Capture (x, v, F) 2x Output-Trigger (x, v, F) 1x position sensor input Sampling rate 16 or 20 kHz PWM with 16 or 20 KHz
可調電流降低	使用軟體
保護功能	I <sup>2</sup> t 監控 溫度監控 電流監控 電源故障檢測 拖拉錯誤監控 軟體方式終點位置檢測
額定電流調整	使用軟體
Ethernet interface, function	Parameterisation and commissioning
Ethernet interface, protocol	TCP/IP
Fieldbus interface, protocol	EtherCAT EtherNet/IP PROFINET IRT
Fieldbus接口	EtherCAT EtherNet/IP Modbus/TCP PROFINET
通訊協議	CiA402 CoE (CANopen over EtherCAT) EoE (Ethernet over EtherCAT) FoE (File over EtherCAT) PROFIdrive
過程接口	I/O mode for 256 position sets Interpolated Mode CSP Interpolated Mode CST Interpolated Mode CSV
Fieldbus介面, 傳輸速度	100 Mbit/s
Fieldbus interface, type of connection	2x 插座
Fieldbus interface, connection technology	RJ45
Encoder interface, function	BiSS-C Incremental encoder
數位邏輯輸入的量值	6
邏輯輸入電路	PNP (正向切換)
邏輯輸入特性	可在一定程度上自由配置 Safety inputs in some cases 非電絕緣
規格, 邏輯輸入	Based on IEC 61131-2, type 3
邏輯輸入工作範圍	-3 ... 30 V

特性	值
Number of high-speed logic inputs	2
Time resolution of high-speed logic inputs	1 $\mu$ s
24V DC時數位邏輯輸出的數量	2
邏輯開關, 輸出	PNP (正向切換)
數位邏輯輸出特性	非電絕緣
最大電流, 數位邏輯輸出	100 mA
Number of high-speed switching outputs	2
Time resolution of high-speed switching outputs	1 $\mu$ s
Number of floating switching outputs	1
Max. current of the floating switching outputs	100 mA
安全功能	Safe torque off (STO) Safe stop 1 (SS1-time controlled)
安全完整性等級 (SIL)	STO / SIL 2 / SILCL 2 (EC motor without diagnostics) STO / SIL 3 / SILCL 3 (stepper motor/EC motor with diagnostics)
性能等級 (PL)	STO / cat. 3 PLd (EC motor without diagnostics) STO / cat. 3, PLe (stepper motor/EC motor with diagnostics)
Diagnostic coverage	STO / medium (EC motor with diagnostics) STO / medium (stepper motor) STO / low (EC motor without diagnostics)
SFF 安全故障失效比率	99 %
硬體誤差	1
Proof test interval	STO / 20 a (stepper motor/EC motor without diagnostics) STO / 0.25 a (EC motor with diagnostics)
Number of safe 2-pin inputs	1
Number of diagnostic outputs	1