

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

料號: 8084006

★ Kernprogramm  
將停止供貨的產品

Type to be discontinued. Available until 2024. See Support Portal for alternative products.

FESTO



## 技術參數

| 特性  | 值  |
|---|--|
| 安裝類型  | 使用螺栓的安裝板<br>具頂部導軌  |
| 裝配位置  | 自由對流<br>垂直   |
| 產品重量  | 350 g  |
| 顯示  | LED green/yellow/red   |
| 授權  | RCM Mark<br>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<br>根據 EU 機器設備指導原則<br>in accordance with 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 |
| 認證核發部門  | TÜV Rheinland 01/205/5696.00/19<br>UL E331130<br>TÜV Rh. UK 01/205U/5696.00/22           |
| 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 %<br>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   |
| 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   | 10 A   |
| 最大峰值電流持續時間  | 3 s  |
| 控制器額定功率   | 300 W  |

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|---|--|
| 峰值 (最大) 功率  | 400 W  |
| 輸出頻率  | 0 ... 20,000 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<br>P 位置控制器<br>PI 速度控制器<br>PI current regulator for F or M<br>Profile operation with record and direct mode<br>Interpolated mode via fieldbus<br>Synchronised operating modes<br>Homing<br>Setting-up<br>Autotuning<br>Open-loop operation |
| 操作模式  | Field-oriented closed-loop control<br>Position resolution 24 bit/U<br>Sampling rate 20 kHz<br>Pulse-width modulation with 20 kHz<br>Real-time data acquisition<br>2x Input-Capture (x, v, F)<br>2x Output-Trigger (x, v, F)<br>1x position sensor input      |
| 可調電流降低  | 使用軟體   |
| 保護功能  | I <sup>2</sup> t 監控<br>溫度監控<br>電流監控<br>電源故障檢測<br>拖拉錯誤監控<br>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                        | EtherNet/IP  |
| Fieldbus接口  | EtherNet/IP<br>Modbus/TCP  |
| 通訊協議  | DriveProfile   |
| 過程接口  | Adjustable speed drives<br>Drives with positioning function  |
| 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<br>Incremental encoder  |
| 數位邏輯輸入的數量   | 6  |
| 邏輯輸入電路  | NPN (負切換)<br>PNP (正向切換)  |
| 邏輯輸入特性  | 可在一定程度上自由配置<br>Safety inputs in some cases<br>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  |
| Number of high-speed logic inputs                   | 2  |
| Time resolution of high-speed logic inputs          | 1 µs   |
| 24V DC時數位邏輯輸出的數量                                    | 2  |
| 邏輯開關, 輸出  | NPN (負切換)<br>PNP (正向切換)  |
| 數位邏輯輸出特性  | 可配置<br>非電絕緣  |
| 最大電流, 數位邏輯輸出  | 100 mA   |

| 特性  | 值   |
|---|---|
| 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)<br>Safe stop 1 (SS1-time controlled)  |
| 安全完整性等級 (SIL)                                   | STO / SIL 2 / SILCL 2 (EC motor without diagnostics)<br>STO / SIL 3 / SILCL 3 (stepper motor/EC motor with diagnostics) |
| 性能等級 (PL)                                       | STO / cat. 3 PLd (EC motor without diagnostics)<br>STO / cat. 3, PLe (stepper motor/EC motor with diagnostics)          |
| Diagnostic coverage                             | STO: 87% (EC motor without diagnostics)<br>STO / 90% (stepper motor)<br>STO: 92% (EC motor with diagnostics)            |
| 硬體誤差  | 1   |
| Proof test interval                             | STO / 20 a (stepper motor/EC motor without diagnostics)   |
| Number of safe 2-pin inputs                     | 1   |
| Number of diagnostic outputs                    | 1   |