Motor controller
CMMO-ST-C5-1-DION

Part number: 1512317



Data sheet

Feature	Value
Type code	CMMO-ST
KC characters	KC EMC
Controller operating mode	PWM MOSFET power output stage Cascade controller with P position controller PI speed controller PI current regulator
Adjustable current reduction	Via software
Position sensor	Encoder
Line filter	Integrated
Step adjustment	Via software
Protective function	I²t monitoring Temperature monitoring Current monitoring Voltage failure detection Contouring error monitoring Software end position detection
Rotor position sensor	Encoder
Safety function	Safe torque off (STO)
Safety integrity level (SIL)	Safe torque off (STO)/SIL 3
Performance Level (PL)	Safe torque off (STO)/category 3, performance level e
Display	Seven-segment display
Nominal current setting	Via software
Braking resistor	15 Ohm
Characteristics of digital logic outputs	Freely configurable in some cases Not galvanically isolated
Pulse power of braking resistor	0.1 kVA
Max. current of digital logic outputs	100 mA
Max. DC link voltage	28 V
Nominal output current	5.7 A
Nominal voltage, logic supply DC	24 V
Nominal voltage, load supply DC	24 V
Nominal current load supply	6 A
Nominal current, logic supply	0.3 A
Parameterization interface	Ethernet
Ethernet, supported protocols	TCP/IP
Peak current, load supply	8 A
Permissible range of logic voltage	± 15 %

Feature	Value
CE marking (see declaration of conformity)	As per EU EMC directive as per EU machinery directive
Storage temperature	-25 °C ... 75 °C
Relative air humidity	0 - 90 % Non-condensing
Degree of protection	IP40
Ambient temperature	0 °C ... 50 °C
UL-ambient temperature	0 °C ... 40 °C
Certification	RCM compliance mark c UL us - Listed (OL)
Product weight	290 g
Number of digital logic outputs 24 V DC	11
Number of digital logic inputs	11
Process interfacing	I/O coupling For 32 positioning blocks
Logic input specification	Based on IEC 61131-2
Work range of logic input	24 V
Encoder interface input, characteristics	RS422
Characteristics of logic input	Galvanically connected to logic potential
Input switching logic	NPN (negative switching)
Switching logic at outputs	NPN (negative switching)
Type of mounting	On sub-base Screwed tightly With H-rail
Note on materials	RoHS-compliant