controller
CMXH-ST2-C5-7-DIOP

Part number: 3605478
Product to be discontinued

Type to be discontinued. Available until 2023. See Support Portal for alternative products.

FESTO
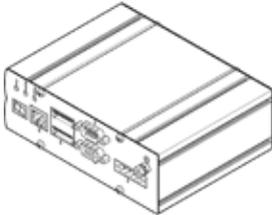
Data sheet

Feature	Value
Ambient temperature	0 … 50 °C
Mounting type	On H-rail with accessories
	With screws in slots
Product weight	700 g
Authorisation	RCM Mark
CE mark (see declaration of conformity)	to EU directive for EMC
	to EU directive for machinery
Certificate issuing department	01/205/5519.00/16
	TÜV Rheinland
Protection class	IP20
Storage temperature	-25 … 75 °C
Materials note	Conforms to RoHS
Relative air humidity	0 - 90 %
	non-condensing
PWIS conformity	VDMA24364-B2-L
Fieldbus coupling	1x CANopen Slave
Electrical connector technology, I/O	Socket, sub-D, 15-pin
Number of digital logic inputs	8
Number of 24 V DC digital logic outputs	5
Note on digital logic inputs/outputs	Digital logic inputs/outputs are only available in I/O mode.
Bus connection	Plug
	9-pin
	Sub-D
Controller operating mode	Direct mode
	Set selection
Process interface	For 31 records
Nominal DC voltage, logic power supply	24 V
Permissible range, logic voltage	± 15 %
Nominal voltage, load supply DC	48 V
Note on nominal operating voltage of DC load voltage supply	Alternatively, 24 V is also possible.
Permissible range, load supply	± 10 %
Current consumption, logic power supply without clamping brake	0.2 A
Max. current consumption for logic supply, holding brake and I/O	0.9 A
Braking resistance	15 Ohm
Note on braking resistor	Integrated braking resistor
Mains filter	Integrated
Nominal current, load supply	10 A
Permissible load current	12 A
Current-carrying capacity per output	100 mA
Power failure buffering	10 ms
Note on power failure buffering	The 10 ms are not complied with if a brake is integrated.
Status displays	7-segment display
	LED

Feature	Value
Ethernet, number	1
Ethernet, supported protocols	TCP/IP, Modbus TCP
Test for insensitivity to vibration	EN 60068-2-6
Test for insensitivity to shock	EN 60068-2-27
Safety class	III
Total number of axes	2
Switching methods	E/A Stand-alone CAN-Bus TCP/IP
Communications profile	FHPP
Max. fieldbus transmission speed	100 Mbit/s
Note on max. fieldbus transmission rate	1 Mbit/s with CANopen
Supported kinetics	Planar surface gantry EXCM
Programming software	FCT (Festo Configuration Tool)
Dimensions W x L x H	50 mm x 149 mm x 130 mm
Device-specific diagnostics	Diagnostics memory Short circuit in motor winding Undervoltage/overvoltage System and motor-oriented diagnostics
Configuration support	FCT (Festo Configuration Tool)
Parameters configuring	System parameters
Protocol	CANopen FHPP Modbus TCP
Ethernet interface	RJ 45 (socket, 8-pin)
Bus-specific LED display	Device: operating status Com: communication status
Product-specific LED display	POWER: load voltage applied
Safety function	Safe torque off (STO)
Performance level (PL)	Safe torque off (STO)/category 3, Performance Level e
Safety Integrity Level (SIL)	Safe torque off (STO)/SIL 3
Proof test interval	20 a
Diagnostic coverage	90 %
SFF Safe Failure Fraction	99 %
Certified for safety functions to ISO 13849 (PL)	Product can be used in SRP/CS up to category 3, PL e
Certified for safety function to ISO 13849 and IEC 61508 (SIL)	Product can be used in SRP/CS up to SIL 3 (high demand)
Probability of Dangerous Failure per Hour (PFHd)	2E-09
Mean Time to Dangerous Failure (MTTFd)	STO/5700 years
Duration of use Tm	20 a
Hardware fault tolerance	1
Digital logic output characteristics	Not electrically isolated