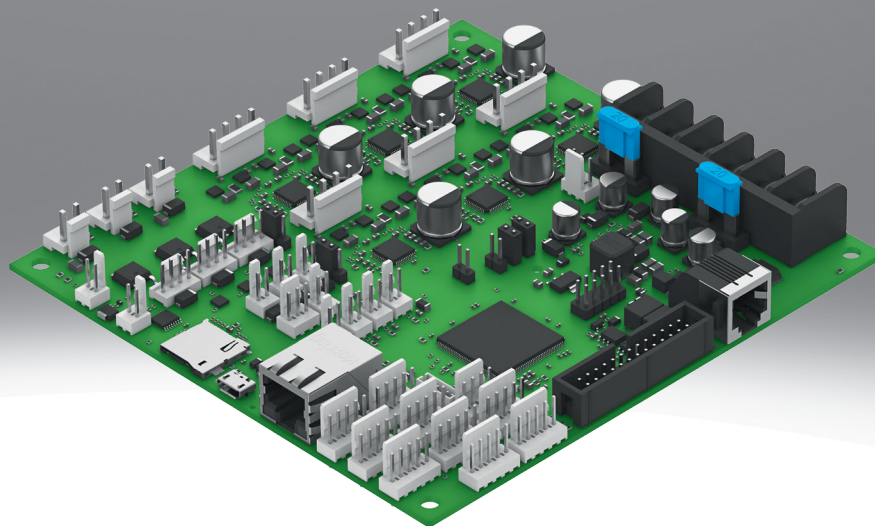# Servo drive CMXL_ST6

FESTO

Characteristics

At a glance

The servo drive CMXL is a 6-axis low voltage servo drive for controlling stepper motors.
- 6 channels for stepper motors up to 4.5 A
- Open loop, no encoder inputs
- Digital inputs for connecting the micro-switches on the three-dimensional gantry EXCL for homing the axes
- Digital Ethernet interface, USB
- Positioning via G-code commands (onboard native G-code interpreter)
- Interpolated operation via multiple channels enables synchronous movement of the axes
- Parameterisation, programming and commissioning in a clear and user-friendly interface possible (Festo Automation Suite)

Type code

001	Series	
CMXL	Servo drive	

002	Motor type	
ST	Stepper motor ST	

003	Number of axes	
6	6	

004	Nominal current	
C4	4 A	

005	Nominal input voltage	
1	24 V DC	

006	Bus protocol/activation	
MP	Multiprotocol	

Datasheet

General technical data

Supported kinematic	3-axis gantries X-Y-Z
Status displays	LED (status)
Controller operating mode	Homing, Open-loop operation
Control methods	TCP/IP
storage medium	microSD
Bus connection	Socket
USB-interface	USB 2.0
Baud rate	10/100 Mbps
Number of digital logic outputs 24 V DC	19
Number of digital logic inputs	9
Features of digital logic outputs	Configurable, Not galvanically isolated

Electrical data

Operational voltage range DC	20.4 ... 30 V
Nominal operating voltage DC	24 V
Permissible range for load power supply	± 10%
Current rating per output	4,450 mA
Nominal voltage for logic power supply DC	24 V
Permissible range for logic voltage	± 10%

Operating and environmental conditions

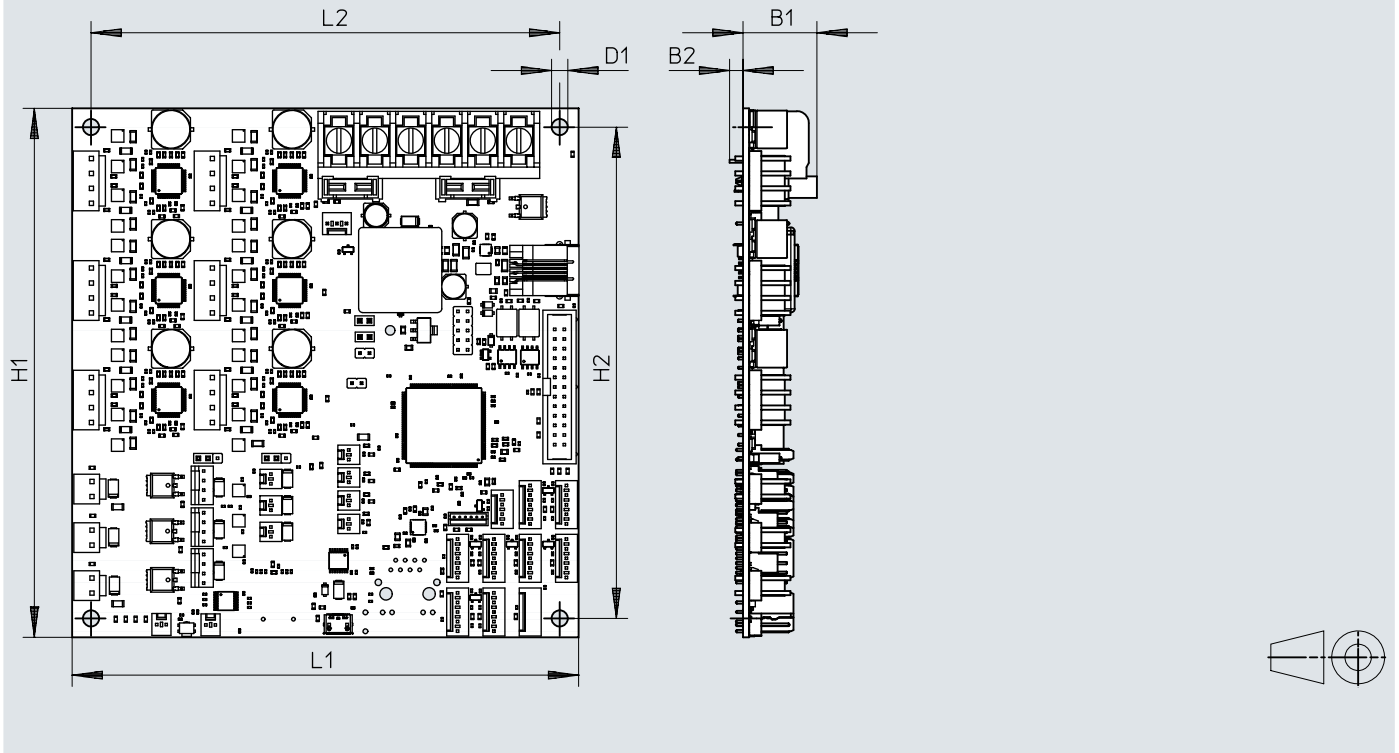|	
Ambient temperature	10 ... 40°C
Storage temperature	-20 ... 60°C
Degree of protection	IP00
Corrosion resistance class CRC	0 - No corrosion stress
Product weight	155
Note on materials	RoHS-compliant
LABS (PWIS) conformity	VDMA24364 zone III

Bus protocol

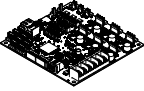|	
Fieldbus link	Ethernet
Process interfacing	Drives with positioning function
Ethernet, supported protocols	TCP/IP
Ethernet interface	RJ45 (socket, 8-pin)

Dimensions

Dimensions – Servo drive CMXL   Download CAD data ➔ www.festo.com

	B1	B2	D1 Ø	H1	H2	L1	L2
CMXL-ST6-NE-C4-1-MP	19,6	3,5	4,3	140	130	134	124

Ordering data

	Protocol	Part no.	Type
	HTTP, Ethernet, TCP/IP	**8168593**	**CMXL-ST6-NE-C4-1-MP**