PRODUCT DATASHEET

ES-MC-01-M001

Industrial Motion Controller

Multi Axis Real Time Motion Controllers | Multi-Axis Real-Time Motion Controller Series - ES-MC-01

Product Overview

Industrial Motion Controller with communication Protocol EtherCAT; CoE; CANopen; Modbus RTU; TCP; UDP, weight 0.18 kg and programming Environment IEC 61131-3; CODESYS.

Key Specifications

PARAMETER	VALUE	UNIT
Communication Protocol	EtherCAT; CoE; CANopen; Modbus RTU; TCP; UDP	
Weight	0.18	kg
Programming Environment	IEC 61131-3; CODESYS	
Control Cycle	4	ms
Digital I/O	16 digital inputs (NPN/PNP compatible); 16 PNP transistor outputs	
Data Memory	32 MB	
Controlled Axis Count	16 axes	
Expansion Capability	1 MicroSD slot; 1 USB Host (Type-C); 1 USB OTG	
Ingress Protection Rating	IP20	

Technical Specifications

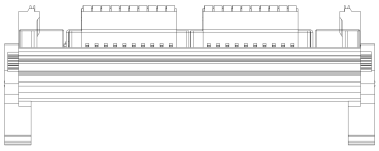
PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Control Cycle	4	ms
Motion Functions	Electronic gearing; electronic cam; interpolation	
MECHANICAL		
Weight	0.18	kg
INTERFACES		
Communication Protocol	EtherCAT; CoE; CANopen; Modbus RTU; TCP; UDP	
Digital I/O	16 digital inputs (NPN/PNP compatible); 16 PNP transistor outputs	
Controlled Axis Count	16 axes	
SAFETY		
Ingress Protection Rating	IP20	
ADDITIONAL SPECIFICATIONS		
Programming Environment	IEC 61131-3; CODESYS	
Data Memory	32 MB	
Expansion Capability	1 MicroSD slot; 1 USB Host (Type-C); 1 USB OTG	
Program Memory	32 MB	
Controlled Axis Count	16	axes

Dimensional & Integration Overview

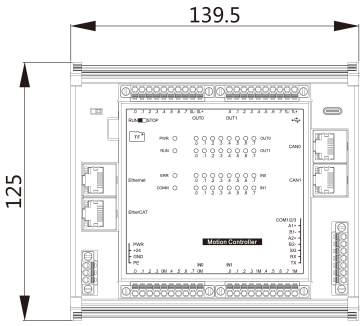
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	0.18	kg

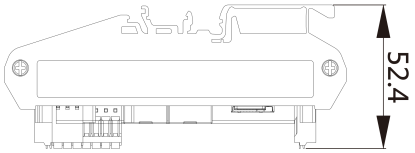
Dimensional Drawings



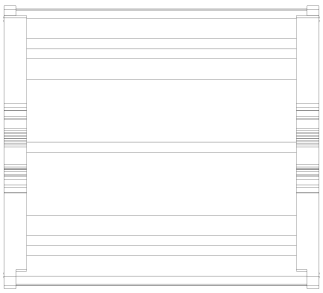
Mechanical View 1



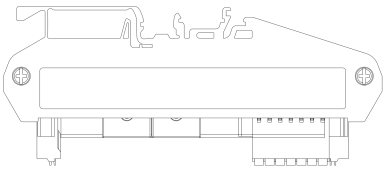
Mechanical View 2



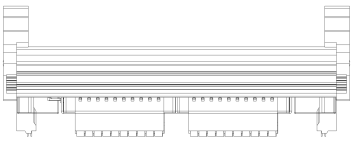
Mechanical View 3



Mechanical View 4



Mechanical View 5



Mechanical View 6

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 2	Overall Width	139.5 mm
	Overall Height	125 mm
Mechanical View 3	Side view height	52.4 mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.