PRODUCT DATASHEET

ES-SD-C21-S004-V017

Industrial Motion Controller

Medium Power Servo Drives | Medium-Power Servo Drive Series - ES-SD-C21-S004

Product Overview

Industrial Motion Controller with logic Supply Voltage No separate logic-supply input V DC, peak Output Current A / 12.73 A and communication Protocol RS485; Modbus RTU; Pulse train; Analog input.

Key Specifications

PARAMETER	VALUE	UNIT
Logic Supply Voltage	No separate logic-supply input	V DC
Peak Output Current	A / 12.73	A
Communication Protocol	RS485; Modbus RTU; Pulse train; Analog input	
Weight	kg / 1.2	kg
Cooling Method	Natural convection cooling	
Braking Resistor	Integrated braking resistor, 100 Ω, 60 W limited power	
Rated Output Power	W / 750	W
Servo Drive AC Supply Voltage	1-phase 200-240 VAC ±10%, 50/60 Hz ±3 Hz	
Atmospheric Pressure	86-106 kPa	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Logic Supply Voltage	No separate logic-supply input	V DC
Peak Output Current	A / 12.73	A
Braking Resistor	Integrated braking resistor, 100 Ω, 60 W limited power	
Servo Drive AC Supply Voltage	1-phase 200-240 VAC ±10%, 50/60 Hz ±3 Hz	
Protection Functions	Overvoltage, undervoltage, motor I^2T overtemperature, short-circuit and drive overtemperature protection	
Rated Output Power	W / 750	W
Overvoltage Alarm Voltage	400 ± 5	V DC
Undervoltage Alarm Voltage	200 ± 5	V DC
Braking Absorption Voltage	380 ± 5	V DC
MECHANICAL		
Weight	kg / 1.2	kg
INTERFACES		
Communication Protocol	RS485; Modbus RTU; Pulse train; Analog input	
Position-loop sampling frequency	8	kHz

Technical Specifications

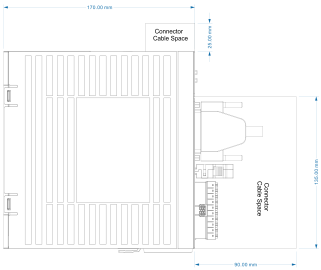
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Speed-loop sampling frequency	16	kHz
Current-loop sampling frequency	16	kHz
ENVIRONMENTAL		
Cooling Method	Natural convection cooling	
Atmospheric Pressure	86-106 kPa	
Operating Temperature	-10-40 °C nominal; 40-55 °C with 3% per °C derating above 40 °C	
Relative humidity	90%RH maximum; non-condensing	
Storage Temperature	-30 °C-+70 °C; non-freezing	
SAFETY		
STO Support	No / false	
ADDITIONAL SPECIFICATIONS		
Continuous output current	4	A
Protection rating	IP20 enclosure; connection terminals IP00	
Supply voltage	1-phase 200-240 VAC ±10%, 50/60 Hz ±3 Hz	

Dimensional & Integration Overview

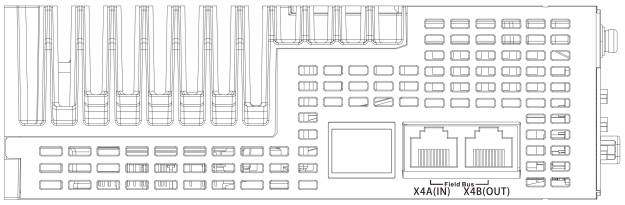
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 1.2	kg

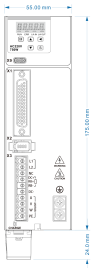
Dimensional Drawings



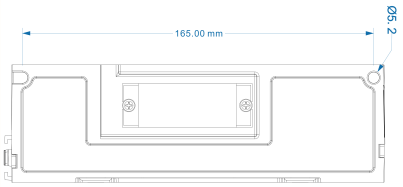
Mechanical View 1



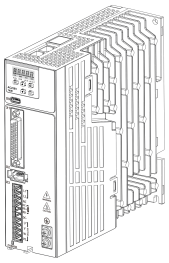
Power Connector Pinout



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Upper horizontal envelope dimension	170.00 mm
Mechanical View 3	Front view width	Width = 55.00 mm
	Front view main body height	Main body height = 175.00 mm
	Input power marking	Input marking: AC220V
	Power rating marking	Power marking: 750W
	Warning marking	Warning label
Mechanical View 4	Mounting hole diameter	Diameter 5.2 mm
	Side-view overall height	Overall height 165.00 mm
Mechanical View 5	Seven-segment display indication example	Seven-segment display placeholder reading 8.8.8.8.8.
	RUN status indicator	RUN indicator
	Status and link indicator labels	ERR, L/A IN, and L/A OUT indicator labels
	Operation key label	M key label
	Warning label	WARNING safety label

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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.