PRODUCT DATASHEET

ES-SD-C21-S004-V018

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 / 16.97 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 / 16.97	A
Communication Protocol	RS485; Modbus RTU; Pulse train; Analog input	
Weight	kg / 1.2	kg
Cooling Method	Forced-air cooling	
Braking Resistor	Integrated braking resistor, 100 Ω, 60 W limited power	
Rated Output Power	W / 1000	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 / 16.97	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 / 1000	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

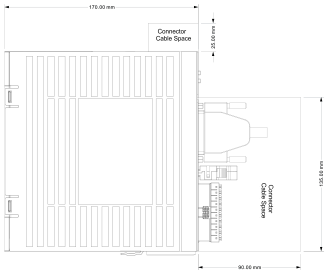
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Speed-loop sampling frequency	16	kHz
Current-loop sampling frequency	16	kHz
ENVIRONMENTAL		
Cooling Method	Forced-air cooling	
Atmospheric Pressure	86-106 kPa	
Operating Temperature	-10-40 °C nominal; 40-55 °C with 3% per °C derating above 40 °C	
Relative humidity	90%RH maximum; non-condensing	
Storage Temperature	-30 °C-+70 °C; non-freezing	
SAFETY		
STO Support	No / false	
ADDITIONAL SPECIFICATIONS		
Continuous output current	5.5	A
Protection rating	IP20 enclosure; connection terminals IP00	
Supply voltage	1-phase 200-240 VAC ±10%, 50/60 Hz ±3 Hz	

Dimensional & Integration Overview

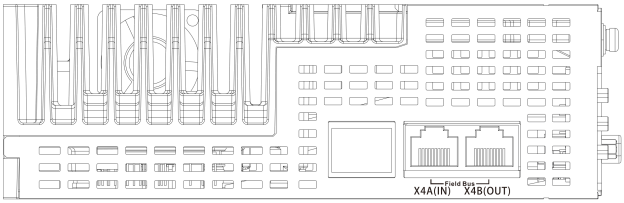
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 1.2	kg

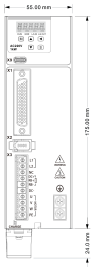
Dimensional Drawings



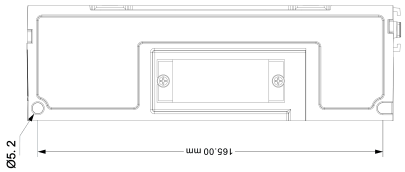
Mechanical View 1



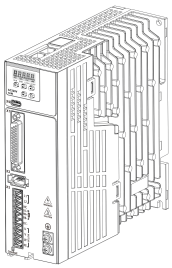
Power Connector Pinout



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Main body length	Length = 170.00 mm
Mechanical View 3	Front view width	Width = 55.00 mm
	Main body height	Main body height = 175.00 mm
	Rated input and power marking	AC220V, 1kW
	Warning and caution labels	Safety labels: WARNING, CAUTION
Mechanical View 4	Mounting hole diameter	Diameter 5.2 mm
	Side-view overall height	165.00 mm overall height
Mechanical View 5	Seven-segment display area	Seven-segment status display marking
	Input voltage marking	AC 220 V
	Power rating marking	1 kW
	Warning label	
	Caution label	
	Charge indicator marking	

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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.