

PRODUCT DATASHEET

ES-SD-C21-S005-V001

Industrial Motion Controller

Medium Power Servo Drives | Medium-Power Servo Drive Series - ES-SD-C21-S005

Product Overview

Industrial Motion Controller with logic Supply Voltage 18 to 30 VDC, 1 A, peak Output Current A / 27.5 A and communication Protocol RS232; RS485; Modbus RTU; CANopen.

Key Specifications

PARAMETER	VALUE	UNIT
Logic Supply Voltage	18 to 30 VDC, 1 A	
Peak Output Current	A / 27.5	A
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
Weight	kg / 2.51	kg
Rated Output Power	200; 400; 750; 1000; 1050; 1250; 1260; 1570 W	
Servo Drive AC Supply Voltage	1-/3-phase 220 VAC -20%/+15%, 47-63 Hz	
Atmospheric Pressure	86-106 kPa	
Braking Absorption Voltage	380 ± 5	V DC
Braking Resistor	External resistor: 39 to 100 Ω (75 Ω reference, 100 W) for 200 to 750 W; 27 to 51 Ω (39 Ω reference, 200 W) for 1000 to 1570 W; minimum withstand voltage 500 VDC	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
ELECTRICAL			
Logic Supply Voltage	18 to 30 VDC, 1 A		
Peak Output Current	A / 27.5	A	
Rated Output Power	200; 400; 750; 1000; 1050; 1250; 1260; 1570 W		
Servo Drive AC Supply Voltage	1-/3-phase 220 VAC -20%/+15%, 47-63 Hz		
Braking Resistor - External resistor	39 to 100 Ω ; 75 Ω reference, 100 W		200 to 750 W
	27 to 51 Ω ; 39 Ω reference, 200 W		1000 to 1570 W
Braking Resistor - Minimum withstand voltage	500	VDC	
Overvoltage Alarm Voltage	400 $\pm$ 5	V DC	
Undervoltage Alarm Voltage	200 $\pm$ 5	V DC	
Braking Absorption Voltage	380 $\pm$ 5	V DC	
MECHANICAL			
Weight	kg / 2.51	kg	

Technical Specifications

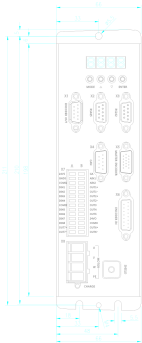
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Dimensions (W × H × D)	220 × 195 × 66 mm	
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
ENVIRONMENTAL		
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	90%RH maximum	
Storage Temperature	-10-70	°C
SAFETY		
STO Support	Yes / 1	
ADDITIONAL SPECIFICATIONS		
Continuous output current	10	A
Protection rating	IP20	
Supply voltage	1-/3-phase 220 VAC -20%/+15%, 47-63 Hz	

Dimensional & Integration Overview

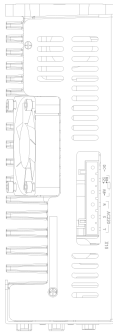
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 2.51	kg
Dimensions (W × H × D)	220 × 195 × 66 mm	

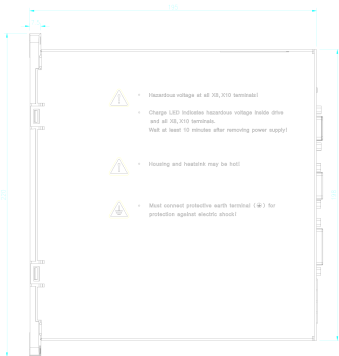
Dimensional Drawings



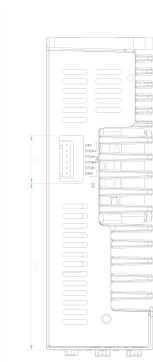
Mechanical View 1



Power Connector Pinout



Mechanical View 3



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall Width	66 mm
	Upper Horizontal Distance	33 mm
	Mounting Hole Diameter	ø5.5 mm
	Top Left Edge Distance	5 mm
	Left Edge Distance	6 mm
	Overall Height	211 mm
	Middle Height	210 mm
	Inner Height	198 mm
	Lower Left Horizontal Distance	18 mm
	Lower Middle Horizontal Distance	33 mm
	Lower Right Horizontal Distance	48 mm
	Lower Vertical Height	14 mm
	Lower Right Edge Distance	5.5 mm
	Bottom Overall Width	66 mm
Mechanical View 3	Width or Height	195
Mechanical View 4	Upper partial vertical dimension	30 mm
	Lower partial vertical dimension	104 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.