

PRODUCT DATASHEET

ES-SD-C21-S005-V004

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 / 45 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 / 45	A
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
Weight	kg / 3.62	kg
Rated Output Power	4400	W
Servo Drive AC Supply Voltage	3-phase 380 VAC -20%/+15%, 47-63 Hz	
Atmospheric Pressure	86-106 kPa	
Braking Absorption Voltage	680 ± 5	V DC
Braking Resistor	External resistor: 39 to 100 Ω (47 Ω reference, 300 W); minimum withstand voltage 800 VDC	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Logic Supply Voltage	18 to 30 VDC, 1 A	
Peak Output Current	A / 45	A
Rated Output Power	4400	W
Servo Drive AC Supply Voltage	3-phase 380 VAC -20%/+15%, 47-63 Hz	
Braking Resistor - External resistor	39 to 100 Ω ; 47 Ω reference, 300 W	
Braking Resistor - Minimum withstand voltage	800	VDC
Overvoltage Alarm Voltage	700 $\pm$ 5	V DC
Undervoltage Alarm Voltage	400 $\pm$ 5	V DC
Braking Absorption Voltage	680 $\pm$ 5	V DC
MECHANICAL		
Weight	kg / 3.62	kg

Technical Specifications

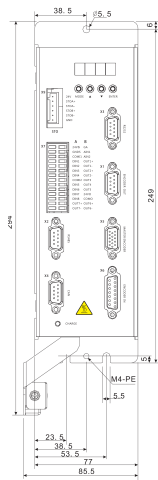
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Dimensions (W × H × D)	255 × 230 × 77 mm	
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
ENVIRONMENTAL		
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	90%RH maximum	
Storage Temperature	-10-70	°C
SAFETY		
STO Support	Yes / 1	
ADDITIONAL SPECIFICATIONS		
Continuous output current	13	A
Protection rating	IP20	
Supply voltage	3-phase 380 VAC -20%/+15%, 47-63 Hz	

Dimensional & Integration Overview

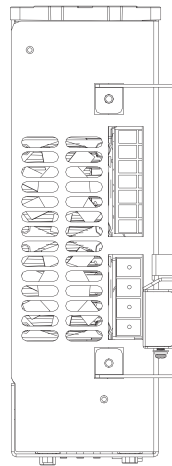
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 3.62	kg
Dimensions (W × H × D)	255 × 230 × 77 mm	

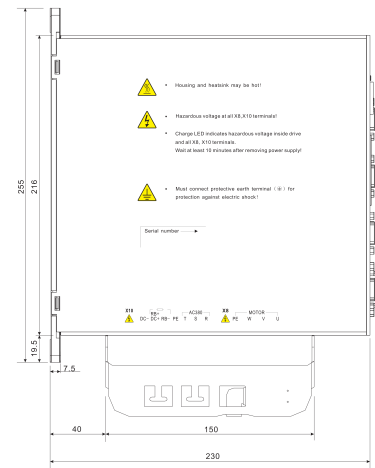
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Top mounting hole horizontal spacing	38.5 mm
	Top mounting hole diameter	Ø5.5 mm
	Right edge offset dimension	6 mm
	Mid-section connector area vertical dimension	249 mm
	Left side vertical dimension	294 mm
	Bottom M4 PE grounding stud	M4 PE grounding stud
	Bottom vertical height	5 mm
	Bottom hole diameter or spacing	5.5 mm
	Bottom horizontal dimension 1	23.5 mm
	Bottom horizontal dimension 2	38.5 mm
	Bottom horizontal dimension 3	53.5 mm
	Bottom horizontal dimension 4	77 mm
	Total width	85.5 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Driver height	255 mm
	Driver main body height	216 mm
	Bottom edge to mounting surface distance	19.5 mm
	Bottom mounting hole offset	7.5 mm
	Left mounting hole spacing	40 mm
	Center mounting hole spacing	150 mm
	Driver total width	230 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.