

PRODUCT DATASHEET

ES-SD-C21-S005-V003

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 / 35 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 / 35	A
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
Weight	kg / 3.62	kg
Rated Output Power	3000; 3500; 3800 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 / 35	A
Rated Output Power	3000; 3500; 3800 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

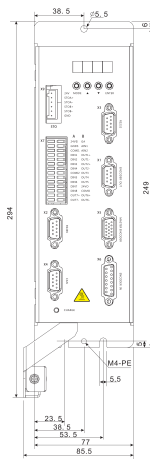
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Dimensions (W × H × D)	255 × 230 × 77 mm	
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
ENVIRONMENTAL		
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	90%RH maximum	
Storage Temperature	-10-70	°C
SAFETY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

Dimensional & Integration Overview

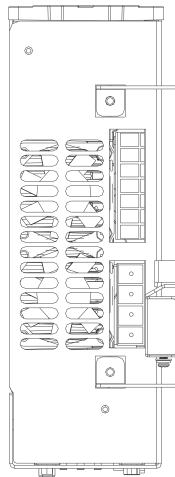
Mechanical Overview

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

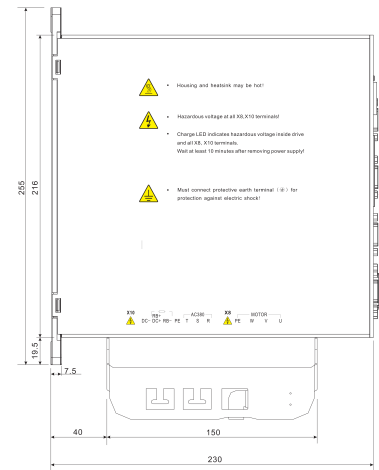
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Front panel top width	38.5 mm
	Upper mounting hole diameter	ø5.5 mm
	Top edge clearance	6 mm
	Front panel height (mid-section)	249 mm
	Front panel height (side section)	294 mm
	Bottom edge clearance	5 mm
	Ground screw specification	M4 PE (protective earth)
	Bottom hole spacing	5.5 mm
	Bottom first segment width	23.5 mm
	Bottom second segment width	38.5 mm
	Bottom third segment width	53.5 mm
	Bottom fourth segment width	77 mm
	Front panel total width	85.5 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 3	Height (left side)	255 mm
	Height (left side internal segment)	216 mm
	Bottom edge to mounting surface height	19.5 mm
	Bottom edge to reference offset	7.5 mm
	Left mounting hole position	40 mm
	Center mounting hole spacing	150 mm
	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.