PRODUCT DATASHEET

ES-SD-C21-S005-V005

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 / 65 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 / 65	A
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
Weight	kg / 6.7	kg
Rated Output Power	7500	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 braking-resistor connection provided; select resistance and power for the motor and duty cycle	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Logic Supply Voltage	18 to 30 VDC, 1 A	
Peak Output Current	A / 65	A
Rated Output Power	7500	W
Servo Drive AC Supply Voltage	3-phase 380 VAC -20%/+15%, 47-63 Hz	
Braking Resistor	External braking-resistor connection provided; select resistance and power for the motor and duty cycle	
Overvoltage Alarm Voltage	700 ± 5	V DC
Undervoltage Alarm Voltage	400 ± 5	V DC
Braking Absorption Voltage	680 ± 5	V DC
MECHANICAL		
Weight	kg / 6.7	kg
Dimensions (W × H × D)	320 × 280.5 × 95 mm	

Technical Specifications

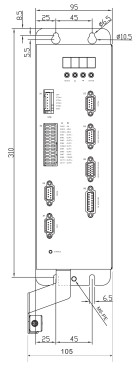
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; CANopen	
ENVIRONMENTAL		
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	90%RH maximum	
Storage Temperature	-10-70	°C
SAFETY		
STO Support	Yes / 1	
ADDITIONAL SPECIFICATIONS		
Continuous output current	18	A
Protection rating	IP20	
Supply voltage	3-phase 380 VAC -20%/+15%, 47-63 Hz	

Dimensional & Integration Overview

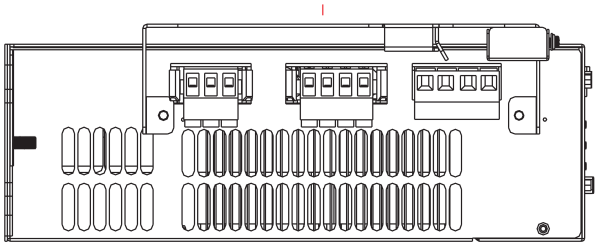
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 6.7	kg
Dimensions (W × H × D)	320 × 280.5 × 95 mm	

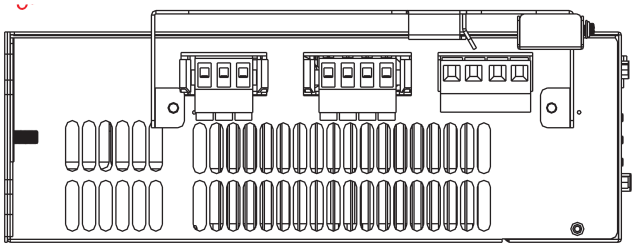
Dimensional Drawings



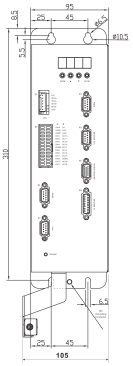
Mechanical View 1



Power Connector Pinout



Power Connector Pinout



Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Total Width	95 mm
	Upper distance from edge	8.5 mm
	Left mounting hole position	25 mm
	Right mounting hole position	45 mm
	Mounting hole diameter	ø6.5 mm
		ø10.5 mm
	Left side dimension	5.5 mm
	Total Height	310 mm
	Ground PE mounting hole	M6 thread for PE grounding
	Bottom distance	6.5 mm
	Bottom left hole position	25 mm
	Bottom right hole position	45 mm
	Total Width (Bottom)	105 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Panel total width	95 mm
	Left mounting hole offset	8.5 mm
	Upper horizontal spacing (left segment)	25 mm
	Upper horizontal spacing (center segment)	45 mm
	Mounting hole diameter (upper right)	Φ6.5 mm
	Mounting hole diameter (main)	Φ10.5 mm
	Right mounting hole offset	5.5 mm
	Panel height	310 mm
	Bottom mounting hole diameter	6.5 mm
	Bottom horizontal spacing (left segment)	25 mm
	Bottom horizontal spacing (center segment)	45 mm
	Bottom total width	105 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.