PRODUCT DATASHEET

ES-SD-C21-S003-V020

Industrial Motion Controller

Medium Power Servo Drives | Medium-Power Servo Drive Series - ES-SD-C21-S003

Product Overview

Industrial Motion Controller with logic Supply Voltage No separate logic supply recorded V DC, peak Output Current A / 10.61 A and communication Protocol RS232; RS485; Modbus RTU; Pulse train.

Key Specifications

PARAMETER	VALUE	UNIT
Logic Supply Voltage	No separate logic supply recorded	V DC
Peak Output Current	A / 10.61	A
Communication Protocol	RS232; RS485; Modbus RTU; Pulse train	
Weight	kg / 0.881	kg
Cooling Method	Natural convection cooling	
Braking Resistor	No integrated braking resistor	
Rated Output Power	W / 400	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 recorded	V DC
Peak Output Current	A / 10.61	A
Braking Resistor	No integrated braking resistor	
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 / 400	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 / 0.881	kg
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; Pulse train	
Position-loop sampling frequency	8	kHz

Technical Specifications

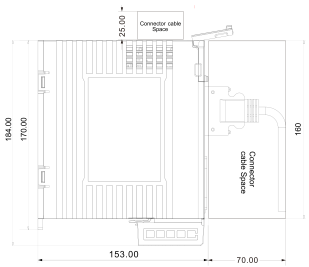
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Speed-loop sampling frequency	16	kHz
Current-loop sampling frequency	16	kHz
ENVIRONMENTAL		
Cooling Method	Natural convection cooling	
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	5-95	% RH
Storage Temperature	-10 °C-70 °C	
SAFETY		
STO Support	No / false	
ADDITIONAL SPECIFICATIONS		
Continuous output current	2.9	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

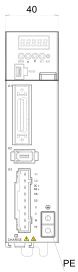
PARAMETER	VALUE	UNIT
Weight	kg / 0.881	kg

Dimensional Drawings



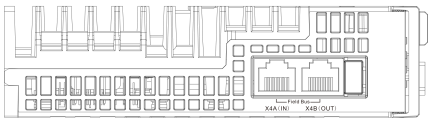
Mechanical View 1

Mechanical View 2



Mechanical View 3

Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Overall height	184.00 mm
	Main body height	170.00 mm
	Main body width	153.00 mm
Mechanical View 2	Fixation hole horizontal position offset	5.75 mm
	Fixation hole vertical position offset	
	Fixation hole diameter	Diameter 5.5 mm
	Fixation hole center distance	160 mm
	Lower fixing slot width	5.50 mm
	Lower fixing slot horizontal position dimension	17 mm
	Annotation note	Hole position for fixation
Mechanical View 3	Front panel width	Width 40
	Mode button label	MODE button label
	Set button label	SET button label

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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.