PRODUCT DATASHEET

ES-SD-C21-S001-V002

Industrial Motion Controller

Medium Power Servo Drives | Medium-Power Servo Drive Series - ES-SD-C21-S001

Product Overview

Industrial Motion Controller with logic Supply Voltage 18 to 30 VDC, 1 A, peak Output Current A / 15 A and communication Protocol RS232; RS485; Pulse train.

Key Specifications

PARAMETER	VALUE	UNIT
Logic Supply Voltage	18 to 30 VDC, 1 A	
Peak Output Current	A / 15	A
Communication Protocol	RS232; RS485; Pulse train	
Weight	kg / 1.2	kg
Cooling Method	Natural convection cooling	
Rated Output Power	200; 400; 750 W	
Servo Drive AC Supply Voltage	1-phase 220 VAC -20%/+15%, 47-63 Hz	
Atmospheric Pressure	86-106 kPa	
Braking Absorption Voltage	380 ± 5	V DC

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Logic Supply Voltage	18 to 30 VDC, 1 A	
Peak Output Current	A / 15	A
Rated Output Power	200; 400; 750 W	
Servo Drive AC Supply Voltage	1-phase 220 VAC -20%/+15%, 47-63 Hz	
Protection Functions	Overvoltage, undervoltage, motor I^2T overtemperature, short-circuit and drive overtemperature protection	
Overvoltage Alarm Voltage	400 ± 5	V DC
Undervoltage Alarm Voltage	200 ± 5	V DC
Braking Absorption Voltage	380 ± 5	V DC
MECHANICAL		
Weight	kg / 1.2	kg
INTERFACES		
Communication Protocol	RS232; RS485; Pulse train	
Position-loop sampling frequency	1	kHz
Analog input sampling frequency	4	kHz
Input impedance	200 kΩ	

Technical Specifications

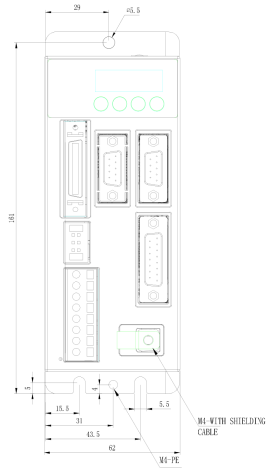
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Speed-loop sampling frequency	4	kHz
Current-loop sampling frequency	16	kHz
Input impedance	200 kΩ	
Input sampling frequency	4	kHz
ENVIRONMENTAL		
Cooling Method	Natural convection cooling	
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	5-95	% RH
Storage Temperature	-10 °C-70 °C	
SAFETY		
STO Support	No / false	
ADDITIONAL SPECIFICATIONS		
Continuous output current	4	A
Protection rating	IP20	
Supply voltage	1-phase 220 VAC -20%/+15%, 47-63 Hz	

Dimensional & Integration Overview

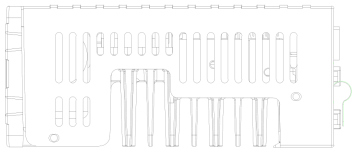
Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 1.2	kg

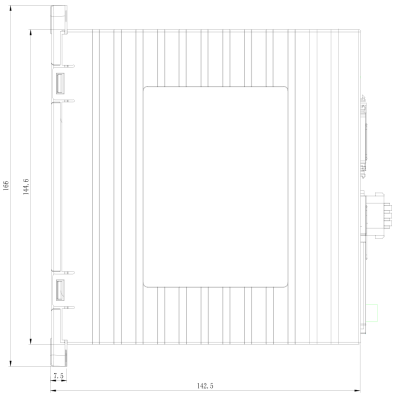
Dimensional Drawings



Mechanical View 1



Power Connector Pinout



Mechanical View 3

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Top mounting hole horizontal offset	29 mm
	Top mounting hole diameter	Diameter 5.5 mm
	Front panel overall height	161 mm
	Bottom left step height	5 mm
	Bottom right local spacing	5.5 mm
	Bottom left slot width	15.5 mm
	Bottom middle hole center distance	31 mm
	Bottom outer mounting width	43.5 mm
	Bottom overall width	62 mm
Mechanical View 3	Overall height	166 mm
	Main body height	144.6 mm
	Front protrusion length	7.5 mm
	Main body length	142.5 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.