PRODUCT DATASHEET

ES-SD-C21-S003-V013

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 1-phase 380-415 VAC ±10%, 50/60 Hz ±3 Hz, peak Output Current A / 42.43 A and communication Protocol RS232; RS485; Modbus RTU; Pulse train.

Key Specifications

PARAMETER	VALUE	UNIT
Logic Supply Voltage	1-phase 380-415 VAC ±10%, 50/60 Hz ±3 Hz	
Peak Output Current	A / 42.43	A
Communication Protocol	RS232; RS485; Modbus RTU; Pulse train	
Weight	kg / 4	kg
Cooling Method	Forced-air cooling	
Braking Resistor	Integrated braking resistor, 25 Ω, 100 W limited power	
Rated Output Power	W / 4500	W
Servo Drive AC Supply Voltage	3-phase 380-415 VAC ±10%, 50/60 Hz ±3 Hz	
Atmospheric Pressure	86-106 kPa	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
ELECTRICAL		
Logic Supply Voltage	1-phase 380-415 VAC ±10%, 50/60 Hz ±3 Hz	
Peak Output Current	A / 42.43	A
Braking Resistor	Integrated braking resistor, 25 Ω, 100 W limited power	
Servo Drive AC Supply Voltage	3-phase 380-415 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 / 4500	W
Overvoltage Alarm Voltage	710 ± 5	V DC
Undervoltage Alarm Voltage	400 ± 5	V DC
Braking Absorption Voltage	680 ± 5	V DC
MECHANICAL		
Weight	kg / 4	kg
INTERFACES		
Communication Protocol	RS232; RS485; Modbus RTU; Pulse train	
Position-loop sampling frequency	8	kHz

Technical Specifications

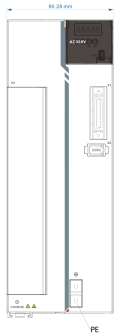
PARAMETER	SPECIFICATION	UNIT
INTERFACES		
Speed-loop sampling frequency	16	kHz
Current-loop sampling frequency	16	kHz
ENVIRONMENTAL		
Cooling Method	Forced-air cooling	
Atmospheric Pressure	86-106 kPa	
Operating Temperature	0-40	°C
Relative humidity	5-95	% RH
Storage Temperature	-10 °C-70 °C	
SAFETY		
STO Support	No / false	
ADDITIONAL SPECIFICATIONS		
Continuous output current	17	A
Protection rating	IP20 enclosure; connection terminals IP00	
Supply voltage	3-phase 380-415 VAC ±10%, 50/60 Hz ±3 Hz	

Dimensional & Integration Overview

Mechanical Overview

PARAMETER	VALUE	UNIT
Weight	kg / 4	kg

Dimensional Drawings



Mechanical View 1

Mechanical View 2

Mechanical View 3

Mechanical View 4

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Front face width dimension	Width = 90.28 mm
	Display placeholder reading	Seven-segment display placeholder text
	SET button marking	SET button label
	Charge status marking	CHARGE indicator label
Mechanical View 2	Top-left fixing hole center horizontal offset from left edge	5.25 mm
	Top-right fixing hole center horizontal offset from right edge	5.14 mm
	Top-right fixing hole center vertical offset from top edge	4.00 mm
	Bottom fixing hole center-to-center horizontal distance	80.00 mm
	Bottom-left fixing hole center horizontal offset from left edge	5.14 mm
	Bottom-left fixing hole slot/local horizontal width	5.54 mm
	Vertical overall distance for fixing hole position region	239.23 mm
	View title	Hole position for fixation

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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.