Motor controller SEC-ST, for stepper motors





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Key features and Type code

At a glance

applications

motors

Motor controller SEC-ST • System product for positioning • Compact unit, ready for installation • Adjustable power range for all • Full, half, quarter, fifth, eighth, tenth, thirty-second step mode • Selectable current reduction • Pre-assembled electrical connection accessories

Power supply unit SVG

- Robust hardware
- Input voltage 230 V AC/115 V AC
- Output voltage 48 V DC
- Nominal output current 5/10/20 A



Type code

		SEC	 ST -	- 4	8	-	6	-	P01
Туре									
SEC	Motor controller								
Motor typ	De								
ST	Stepper motor								
Input volt	tage								
48	48 V								
Nominal	current								
6	6 A								
Generatio	on								
P01	1 st generation								

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→ 3

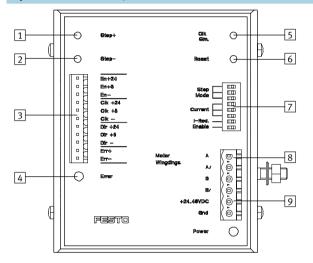
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Explanation of the functions/interfaces



General electrical data

		SEC-ST-48-6-P01	1
Nominal operating voltage	[V DC]	24 48	
V _{nominal}			
Nominal current	[A]	1.25 6	
(adjustable)		via DIP switch	
I _{nominal}			
Max. step frequency	[kHz]	40	
Current reduction	[%]	0 or 70	
(adjustable)		via DIP switch	
Operating range	[V DC]	20 26	
Logic input	[V DC]	4 6	
System mode		Bipolar chopper	driver
Operating mode		Full step	= 200 steps/revolution
		Half step	= 400 steps/revolution (recommended)
		Quarter step	= 800 steps/revolution
		Fifth step	= 1000 steps/revolution
		Eighth step	= 1600 steps/revolution
		Tenth step	= 2000 steps/revolution
		Thirty-second ste	p = 6400 steps/revolution
Step adjustment		Via DIP switch	

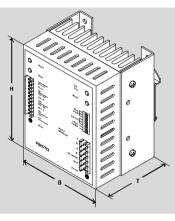
1 "Step +" button

- 2 "Step –" button
- 3 Plug X1 for control cable (step, direction, etc.)
- 4 LED, indicates an error
- 5 "CLK, Sim." button
- 6 "Reset" button
- 7 DIP switch for setting the operating mode, current value and current reduction
- 8 Plug X2 for motor connection
- 9 Plug X3 for supply voltage

Motor controller SEC-ST, for stepper motors Technical data and accessories

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Operating and environmental conditions					
Ambient temperature	[°C]	0 +40			
Storage temperature	[°C]	-10 +60			
Weight	[g]	660			
Protection class		IP20			
CE symbol (declaration of co	nformance)	In accordance with EU EMC Directive			
Certification		C-Tick			
Connection type		Screw terminal			
Type of mounting		TS 35 DIN H-rail			



Dimensions and ordering data									
	Н	W	D	Part No.	Туре				
Motor controller	106	89	70	548 945	SEC-ST-48-6-P01				
	106	69	70	546 945	SEC-31-40-0-PU1				

Ordering data for accessories

oracining data for accessories										
	Brief description	Input voltage	Output voltage	Nominal	Part No.	Туре				
		range		current						
		[V AC]	[V DC]	[A]						
Power supply unit Technical data → Internet: svg										
	Power supply for	100 240	48	5	542 403	SVG-1/230VAC-48VDC-5A				
	motor controller			10	542 404	SVG-1/230VAC-48VDC-10A				
		400 500		20	542 405	SVG-3/400VAC-48VDC-20A				

Product Range and Company Overview

A Complete Suite and Company Overview

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Custom Control Cabinets Comprehensive engineering support and on-site services



Complete Systems Shipment, stocking and storage services

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PLCs and I/O Devices PLC's, operator interfaces, sensors and I/O devices

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