# **Product data sheet**

Specifications



# motion control stepper motor drive -SD328 - Profibus DP fieldbus - <= 2.5 A

SD328BU25S2

## Main

mann	
Range Of Product	Lexium SD3
Product Or Component Type	Motion stepper drive
Device Short Name	SD328
Supply Voltage Limits	200240 V 100120 V
Bus Type	Fieldbus

## lamantam

Complementary		
Format Of The Drive	Block	
Network Number Of Phases	Single phase	
[Us] Rated Supply Voltage	100120 V - 1510 % 200230 V - 1510 %	
Supply Voltage Type	AC/DC	
Network Frequency Limits	5060 Hz (- 1510 %)	
Communication Interface	Profibus DP fieldbus, integrated	
Maximum Motor Phase Current	2.5 A	
Current Consumption	3 A 230 V main supply 4 A 115 V main supply <= 0.2 mA 24 V control voltage	
Nominal Power	180 W at 115 V 270 W at 230 V	
Short-Circuit Current	0.5 kA	
Power Losses	<= 26 W	
Associated Fuse Rating	6 A at 115 V 6 A at 230 V	
Overvoltage Category	III	
Inrush Current	60 A	
Maximum Leakage Current	30 mA <10 m IEC 60990-3	
Voltage State 0 Guaranteed	-35 V for 24 V input signals	
Voltage State 1 Guaranteed	1530 V for 24 V input signals	
Input Current	10 mA for 24 V input signals	
Maximum Input Frequency	200 kHz for signal input ENC_A, ENC_B, ENC_I - control type pulse/direction 400 kHz for signal input ENC_A, ENC_B, ENC_I - control type A/B	
Maximum Output Frequency	400 kHz for pulse/direction interface A/B 200 kHz for pulse/direction interface pulse/direction	

Maximum Switching Current	50 mA (24 V output signals)	
Maximum Voltage Drop	<1 V 50 mA load for 24 V output signals	
Physical Interface	RS422 - pulse/direction interface RS422 - signal input ENC_A, ENC_B, ENC_I	
Output Voltage	<= 30 V (24 V output signals) 4.755.25 V (ENC+5V_OUT signal output)	
Input Voltage	24 V -15 %/+20 % for 24 V control voltage	
Residual Ripple	< 5 % (24 V control voltage)	
Resistance	5 kOhm (pulse/direction interface)	
Safety Function	Safe torque off safety function for machine conforming to IEC/EN 61800-5-2 Safe torque off safety function for machine conforming to ISO 13849-1 level d Safe torque off safety function for system process conforming to EN/IEC 61508 level SIL2 Safe torque off safety function for system process conforming to IEC/EN 61800-5-2	
Type Of Cooling	Natural convection	
Maximum Mechanical Speed	3000 rpm	
Height	145 mm	
Width	72 mm	
Depth	140 mm	
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
Net Weight	1.1 kg	

# Environment

Electromagnetic Compatibility	Electrostatic discharge level 3 conforming to IEC 61000-4-2 Immunity to electrical transients level 4 conforming to IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to IEC 61000-4-3 Voltage/current impulse level 3 conforming to IEC 61000-4-5	
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1	
Product Certifications	UL cUL TÜV	
Marking	CE	
Ambient Air Temperature For Operation	050 °C	
Ambient Air Temperature For Storage	-2570 °C	
Pollution Degree	Level 2	
Relative Humidity	585 % without condensation	
Operating Altitude	<= 1000 m without derating > 1000< 2000 m without derating (maximum ambient temperature 40°C, no protective film, lateral distance of > 50mm)	
Vibration Resistance	1 gn (f= 13150 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 313 Hz) conforming to IEC 60068-2-6	
Ip Degree Of Protection	IP20 On upper part: IP40 (without removal of protective film)	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13.3 cm

Package 1 Width	16.8 cm
Package 1 Length	18.7 cm
Package 1 Weight	1.268 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	6
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	8.467 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



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Transparency RoHS/REACh

## Well-being performance



## **Certifications & Standards**

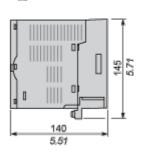
Reach Regulation	REACh Declaration Pro-active compliance (Product out of EU RoHS legal scope)	
Eu Rohs Directive		
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

# Product data sheet

### **Dimensions Drawings**

#### Dimensions

\_\_\_\_\_\_ R1\_



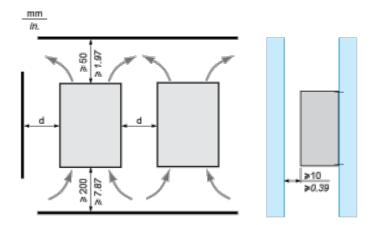


#### EMC mounting plate (included)



### Mounting and Clearance

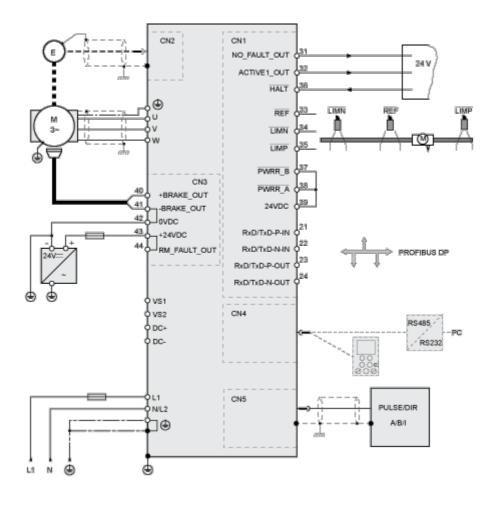
#### Mounting and Clearance



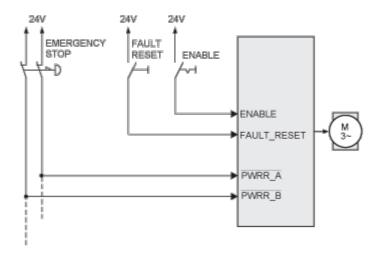
Ambient	Mounting	Mounting recommendations	
temperature distances	Without protective film (1)	With protective film	
0 +40 °C d > 5	d > 50 mm/ 1.97 in.	None	None
	d > 50 mm/ 1.97 in.	None	d > 10 mm/0.39 in.
+40 +50 °C	d > 50 mm/ 1.97 in.	None	Reduce nominal and continuous current by 2.2 % per °C above 40 °C
	d > 50 mm/ 1.97 in.	Reduce nominal and continuous current	Operation not possible

Connections and Schema

#### SD328B Connection Example with Fieldbus Control



Example of Application of the Safety Function: Category 0 Stop



#### Example of Application of the Safety Function: Category 1 Stop

