

# Product data sheet

Specifications



## motion control stepper motor drive - SD326 - pulse/direction - $\leq 2.5$ A

SD326RU25S2

### Main

Range of product	Lexium SD3
Product or component type	Motion stepper drive
Device short name	SD326
Supply voltage limits	200...240 V 100...120 V

### Complementary

Format of the drive	Block
Network number of phases	Single phase
[Us] rated supply voltage	100...120 V - 15...10 % 200...230 V - 15...10 %
Supply voltage type	AC/DC
Network frequency limits	50...60 Hz (- 15...10 %)
Communication interface	Pulse/direction, integrated
Function available	Rotation monitoring Holding brake monitoring
Maximum motor phase current	2.5 A
Current consumption	$\leq 0.2$ mA 24 V control voltage
Nominal power	180 W at 115 V 270 W at 230 V
Short-circuit current	0.5 kA
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 IEC 60990-3
Voltage state 0 guaranteed	$\leq 5$ V for 24 V optocoupler input signals $\leq 0.5$ V for 5 V optocoupler input signals
Voltage state 1 guaranteed	15...30 V for 24 V optocoupler input signals 2.5...5.25 V for 5 V optocoupler input signals
Input current	25 mA for 5 V optocoupler input signals 7 mA for 24 V optocoupler input signals
Maximum input frequency	200 kHz for 24 V optocoupler input signals 200 kHz for 5 V optocoupler input signals 400 kHz for ENC_A/ENC_B signal input

<b>Maximum switching voltage</b>	30 V DC (readiness signal output)
<b>Maximum switching current</b>	200 mA (readiness signal output) 50 mA (24 V output signals)RM-FAULT_OUT 1.7 mA (24 V output signals)+BRAKE_OUT
<b>Maximum voltage drop</b>	<1 V 50 mA load for 24 V output signals <1 V 50 mA load for ENC+5V_OUT signal output <1 V 50 mA load for readiness signal output
<b>Physical interface</b>	RS422 - ENC_A/ENC_B signal input
<b>Output voltage</b>	<= 30 V (24 V output signals) 4.75...5.25 V (ENC+5V_OUT signal output)
<b>Input voltage</b>	24 V -15 %/+20 % for 24 V control voltage
<b>Residual ripple</b>	<= 5 % (24 V control voltage)
<b>Type of cooling</b>	Natural convection
<b>Maximum mechanical speed</b>	3000 rpm
<b>Height</b>	145 mm
<b>Width</b>	72 mm
<b>Depth</b>	140 mm
<b>Shock resistance</b>	15 gn for 11 ms conforming to EN/IEC 60068-2-27
<b>Net weight</b>	1.1 kg

## Environment

<b>Electromagnetic compatibility</b>	Electrostatic discharge level 3 conforming to EN/IEC 61000-4-2 Immunity to electrical transients level 4 conforming to EN/IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to EN/IEC 61000-4-3 Voltage/current impulse level 3 conforming to EN/IEC 61000-4-5
<b>Standards</b>	EN/IEC 61800-5-1 EN/IEC 61800-3 EN/IEC 61800-3 environment 2 EN/IEC 61800-3 environment 1 EN/IEC 50178
<b>Product certifications</b>	UL cUL
<b>Marking</b>	CE
<b>Ambient air temperature for operation</b>	0...40 °C conforming to UL 0...50 °C
<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Pollution degree</b>	Level 2
<b>Relative humidity</b>	5...85 % without condensation
<b>Operating altitude</b>	<= 1000 m without derating > 1000...< 2000 m without derating (maximum ambient temperature 40°C, no protective film, lateral distance of > 50mm)
<b>Vibration resistance</b>	1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 3...13 Hz) conforming to EN/IEC 60068-2-6
<b>IP degree of protection</b>	IP20 On upper part: IP40 (without removal of protective film)

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	1.256 kg
<b>Package 1 Height</b>	13.5 cm
<b>Package 1 width</b>	16.8 cm
<b>Package 1 Length</b>	19 cm

Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	8.381 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm
Package 3 Height	73.5 cm

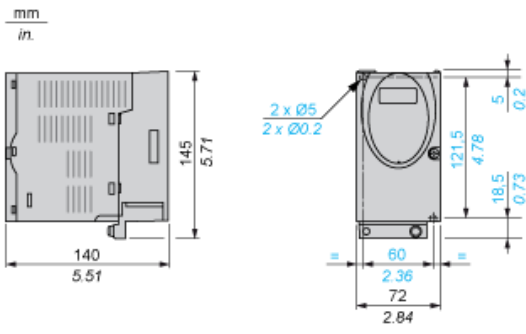
## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
PVC free	Yes
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

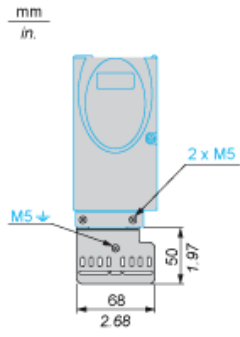
## Contractual warranty

Warranty	18 months
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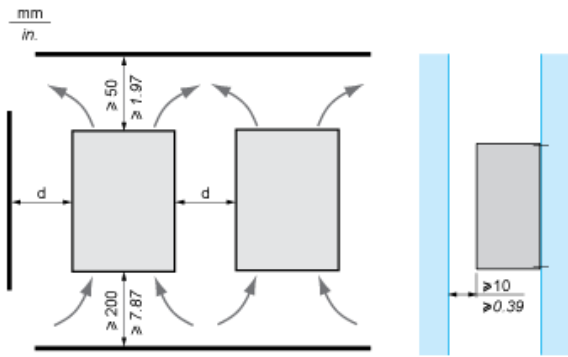
Dimensions



EMC mounting plate (included)



**Mounting and Clearance**



Ambient temperature	Mounting distances	Mounting recommendations	
		Without protective film (1)	With protective film
0 ... +40 °C	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

(1) Recommendation: remove protective film after installation.

**SD326 Connection Example**

