# **Product datasheet**

Specifications





# motion control stepper motor drive - SD315 - pulse direction with oscillator

SD315ON10B400

! Discontinued on: 01-Nov-2020

① Discontinued

#### Main

Range Of Product	Lexium SD3
Product Or Component Type	Motion stepper drive
Device Short Name	SD315
Supply Voltage Limits	1960 V

## Complementary

Format Of The Drive	Block
Network Number Of Phases	Single phase
[Us] Rated Supply Voltage	2448 V - 1510 %
Supply Voltage Type	DC
Communication Interface	Pulse/direction, integrated
Maximum Motor Phase Current	10 A
Current Consumption	<= 7.5 mA
Power Losses	<= 7 W
Associated Fuse Rating	10 A
Overvoltage Category	III
Maximum Leakage Current	30 mA
Voltage State 0 Guaranteed	<= 5 V for 24 V optocoupler input signals <= 0.4 V for 5 V optocoupler input signals
Voltage State 1 Guaranteed	1530 V for 24 V optocoupler input signals 2.55.25 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
Maximum Switching Voltage	30 V DC (readiness signal output) 30 V (pulse/direction output signal) 10 V DC (output signal)
Maximum Switching Current	200 mA (readiness signal output) 50 mA (pulse/direction output signal) 20 mA (output signal)
Maximum Voltage Drop	<1 V 50 mA load for readiness signal output <0.5 V for pulse/direction output signal
Physical Interface	RS422 - pulse/direction interface with oscillator
Input Voltage	< 30 V

Residual Ripple	< 5 % (24 V control voltage)	
Resistance	10 kOhm (external potentiometer)	
Analogue Input Type	Voltage 010 V, resolution: 10 bits, impedance: 50 kOhm	
Local Signalling	1 LED - ERR 1 LED - RUN	
Type Of Cooling	Natural convection	
Height	117 mm	
Width	74.5 mm	
Depth	23.5 mm	
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
Net Weight	0.25 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	IEC 61800-3 environment 1 IEC 61800-3 IEC 50178 IEC 61800-5-1 EN/IEC 61800-3 environment 2
Product Certifications	UL cUL
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, lateral distance of > 20 mm)
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

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	12.8 cm
Package 1 Length	19.0 cm
Package 1 Weight	367.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	12
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm

Package 2 Length	40.0 cm
Package 2 Weight	4.897 kg

## **Contractual warranty**

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance

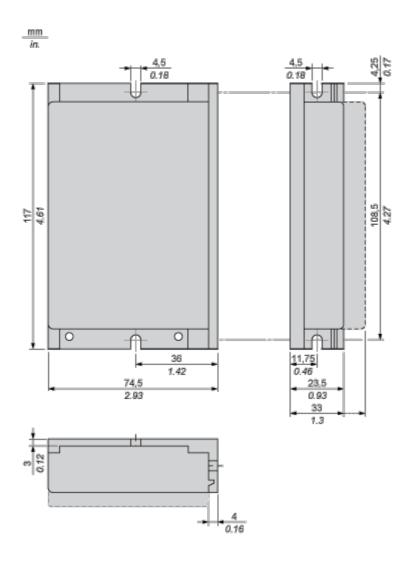
<b>Ø</b>	Mercury Free	
<b>②</b>	Rohs Exemption Information	Yes
<b>②</b>	Pvc Free	

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

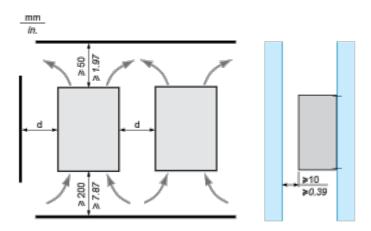
#### **Dimensions Drawings**

#### **Dimensions**



## Mounting and Clearance

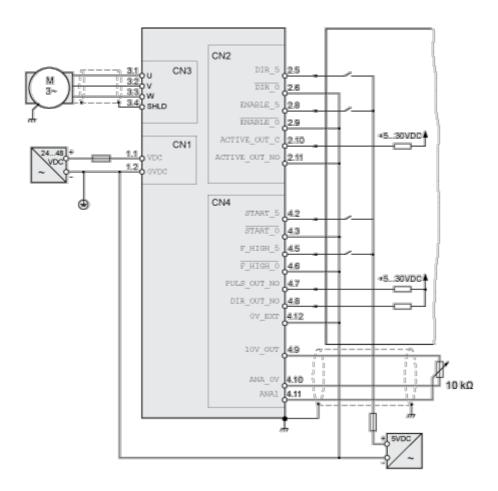
#### **Mounting and Clearance**



d: >30 mm/1.18 in.

#### Connections and Schema

#### Wiring Example with 5 V



#### Wiring Example with 24 V

