

Product datasheet

Specifications



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

SD315ON10B400

EAN Code: 3606485186146

Main

Range of product	Lexium SD3
Product or component type	Motion stepper drive
Device short name	SD315
Supply voltage limits	19...60 V

Complementary

Format of the drive	Block
Network number of phases	Single phase
[Us] rated supply voltage	24...48 V - 15...10 %
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	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
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)

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Resistance	10 kOhm (external potentiometer)
Analogue input type	Voltage 0...10 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	0...50 °C
Ambient air temperature for storage	-25...70 °C
pollution degree	Level 2
Relative humidity	5...85 % 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= 13...150 Hz) conforming to IEC 60068-2-6 1.5 mm (f= 3...13 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	6.800 cm
Package 1 Width	12.800 cm
Package 1 Length	19.000 cm
Package 1 Weight	371.000 g
Unit Type of Package 2	S03
Number of Units in Package 2	12
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm

Package 2 Weight	4.872 kg
Unit Type of Package 3	P06
Number of Units in Package 3	96
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	50.976 kg

Logistical informations

Country of origin	DE
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Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

 Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	205
Environmental Disclosure	Product Environmental Profile

Use Better

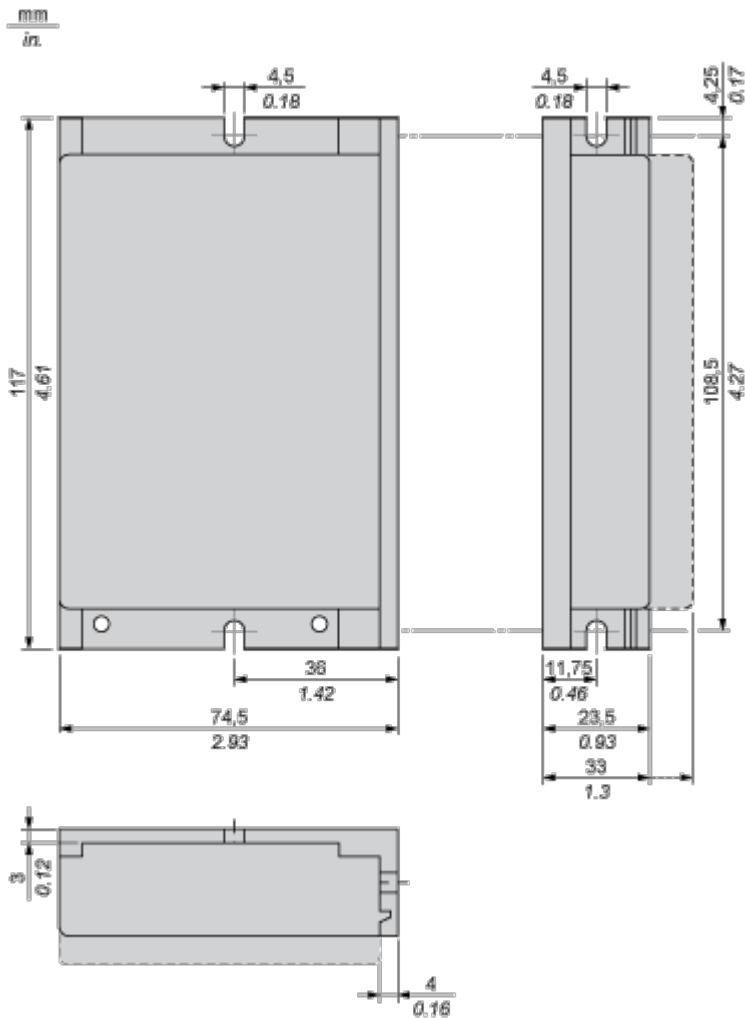
 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	19ee4950-c76c-48d9-8353-203688a9f056
REACH Regulation	REACH Declaration
PVC free	Yes

Use Again

 Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

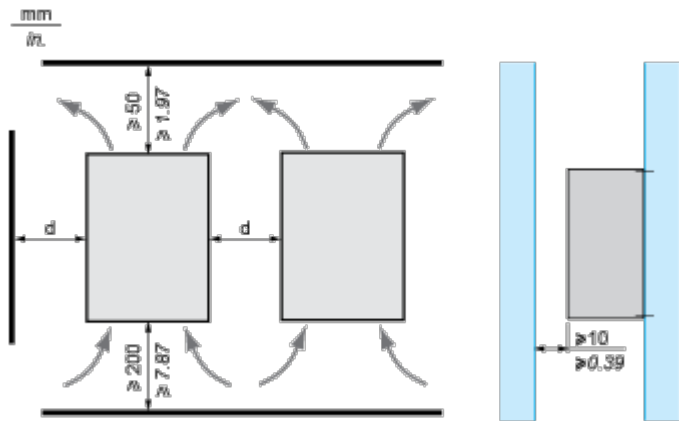
Dimensions Drawings

Dimensions



Mounting and Clearance

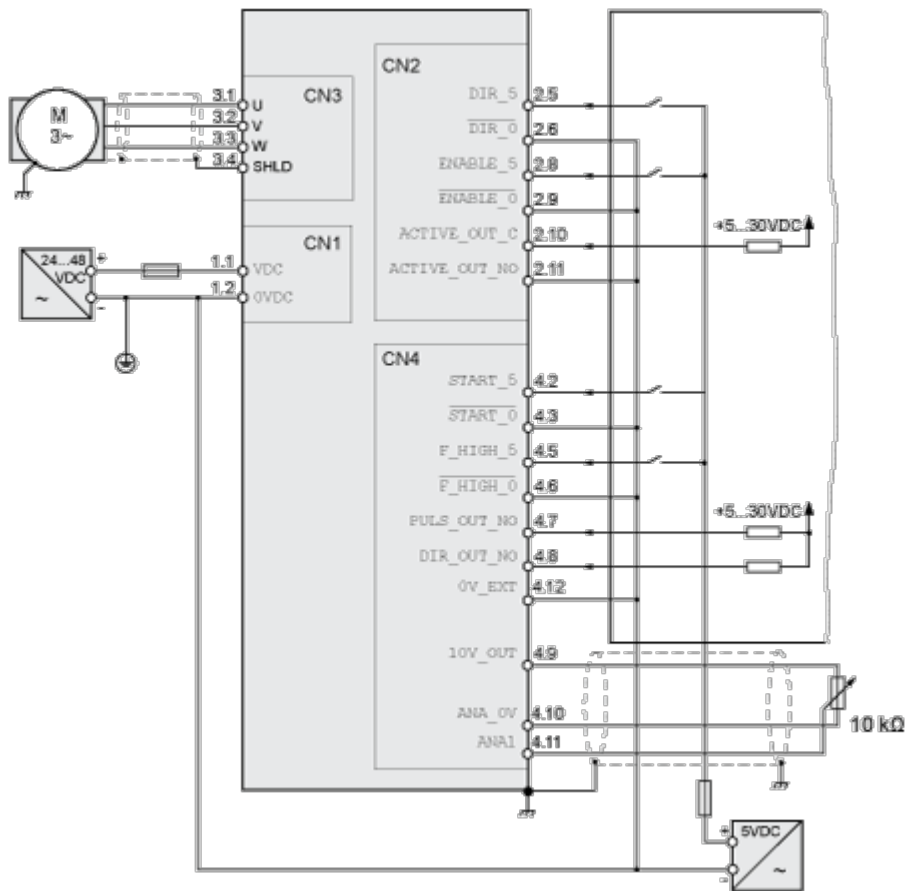
Mounting and Clearance



d : >30 mm/1.18 in.

Connections and Schema

Wiring Example with 5 V



Wiring Example with 24 V

