

Product data sheet

Specifications



motion control stepper motor drive - SD315 - pulse direction without oscillator

SD315DN10B400

Product availability: Non-Stock - Not normally stocked in distribution facility

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
Phase	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 24 V optocoupler input signals <= 0.4 V 5 V optocoupler input signals
Voltage state 1 guaranteed	15...30 V 24 V optocoupler input signals 2.5...5.25 V 5 V optocoupler input signals
Input current	25 mA 5 V optocoupler input signals 7 mA 24 V optocoupler input signals
Maximum input frequency	200 kHz 24 V optocoupler input signals 200 kHz 5 V optocoupler input signals
Maximum switching voltage	30 V DC (readiness signal output)
Maximum switching current	200 mA (readiness signal output)
Maximum voltage drop	<1 V 50 mA load (readiness signal output)
Physical interface	RS422 - pulse/direction interface without oscillator
Residual ripple	< 5 % 24 V control voltage)
Local signalling	1 LED - ERR 1 LED - RUN
type of cooling	Natural convection
Height	4.6 in (117 mm)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Width	2.9 in (74.5 mm)
Depth	0.9 in (23.5 mm)
Shock resistance	15 gn 11 ms IEC 60068-2-27
Net Weight	0.55 lb(US) (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 50178 IEC 61800-5-1 EN/IEC 61800-3 environment 2 IEC 61800-3
Product Certifications	cUL UL
Marking	CE
Ambient air temperature for operation	32...122 °F (0...50 °C)
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Pollution degree	Level 2
Relative humidity	5...85 % without condensation
Operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.84...< 6561.68 ft (> 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

Ordering and shipping details

Category	US1PC5518285
Discount Schedule	PC55
GTIN	3606485186139
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.60 in (6.600 cm)
Package 1 Width	5.04 in (12.800 cm)
Package 1 Length	7.40 in (18.800 cm)
Package weight(Lbs)	11.390 oz (322.900 g)
Unit Type of Package 2	S02
Number of Units in Package 2	8
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)

Package 2 Length	15.75 in (40 cm)
Package 2 Weight	6.246 lb(US) (2.833 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	128
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	117.575 lb(US) (53.331 kg)

Contractual warranty

Warranty	18 months
-----------------	-----------



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 CO2 eq, Total Life cycle) 204

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](#)

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**

PVC free Yes

Use Again

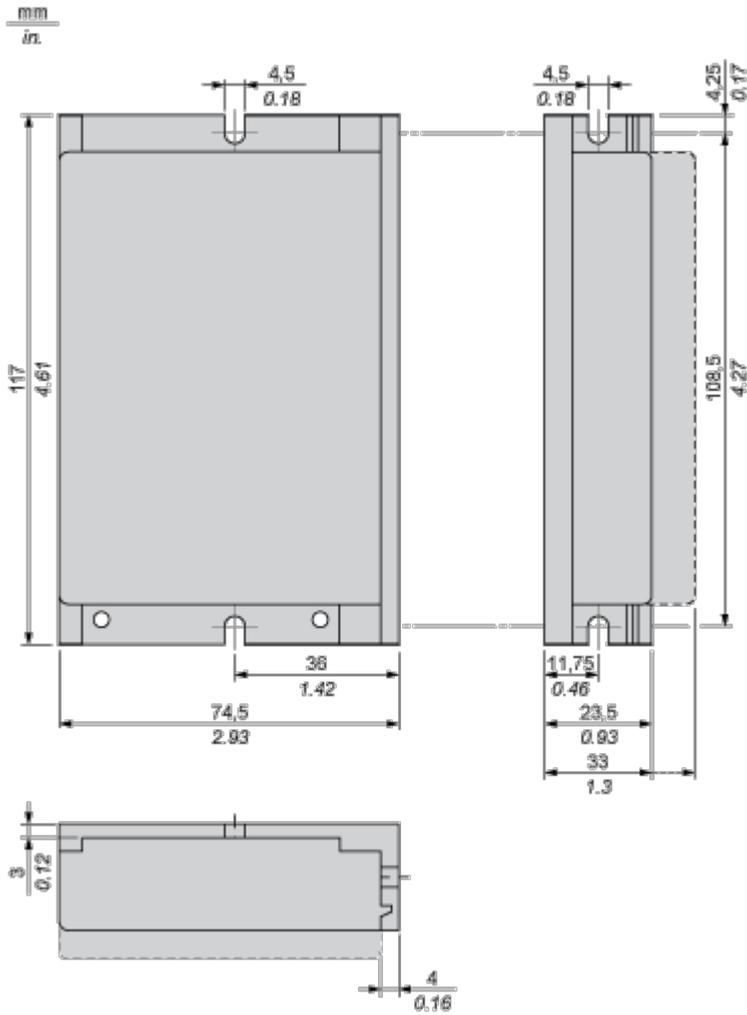
Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

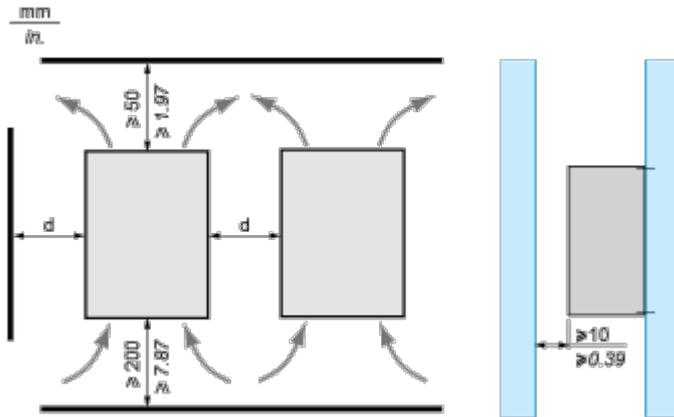
Dimensions Drawings

Dimensions



Mounting and Clearance

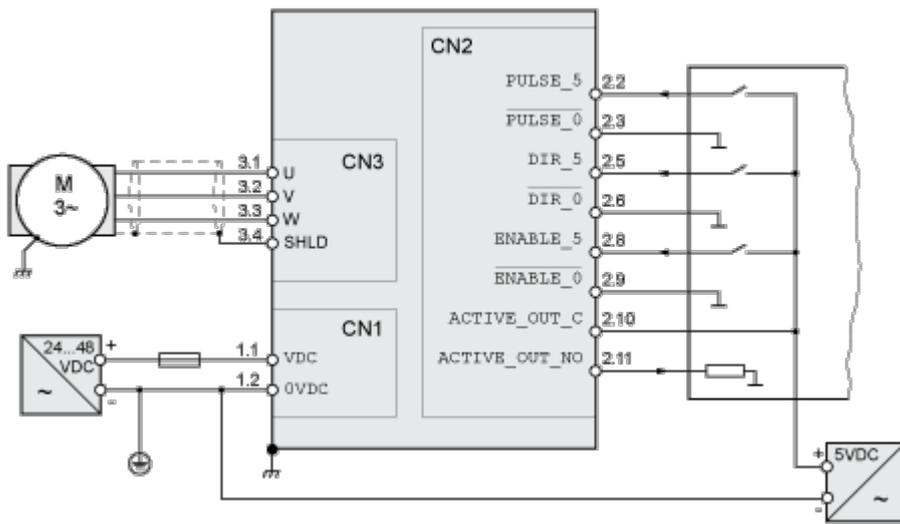
Mounting and Clearance



d : >30 mm/1.18 in.

Connections and Schema

Wiring Example with 5 V



Wiring Example with 24 V

