



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	Integrated pulse/direction
Motor phase current	≤ 10 A
Current consumption	≤ 7.5 mA
Power losses	≤ 7 W
Associated fuse rating	10 A
Overvoltage category	III
Leakage current	< 30 mA
Voltage state 0 guaranteed	≤ 0.4 V (5 V optocoupler input signals) ≤ 5 V (24 V optocoupler input signals)
Voltage state1 guaranteed	2.5...5.25 V (5 V optocoupler input signals) 15...30 V (24 V optocoupler input signals)
Input current	≤ 7 mA (24 V optocoupler input signals) ≤ 25 mA (5 V optocoupler input signals)
Input frequency	≤ 200 kHz, 5 V optocoupler input signals ≤ 200 kHz, 24 V optocoupler input signals
Maximum switching voltage	10 V DC (output signal) 30 V (pulse/direction output signal) 30 V DC (readiness signal output)
Maximum switching current	20 mA (output signal) 50 mA (pulse/direction output signal) 200 mA (readiness signal output)
Voltage drop	≤ 0.5 V (pulse/direction output signal) ≤ 1 V, 50 mA load (readiness signal output)
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 0...10 V, resolution: 10 bits, impedance: 50 kOhm
Local signalling	1 LED - RUN 1 LED - ERR
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 EN/IEC 60068-2-27
Product weight	0.25 kg

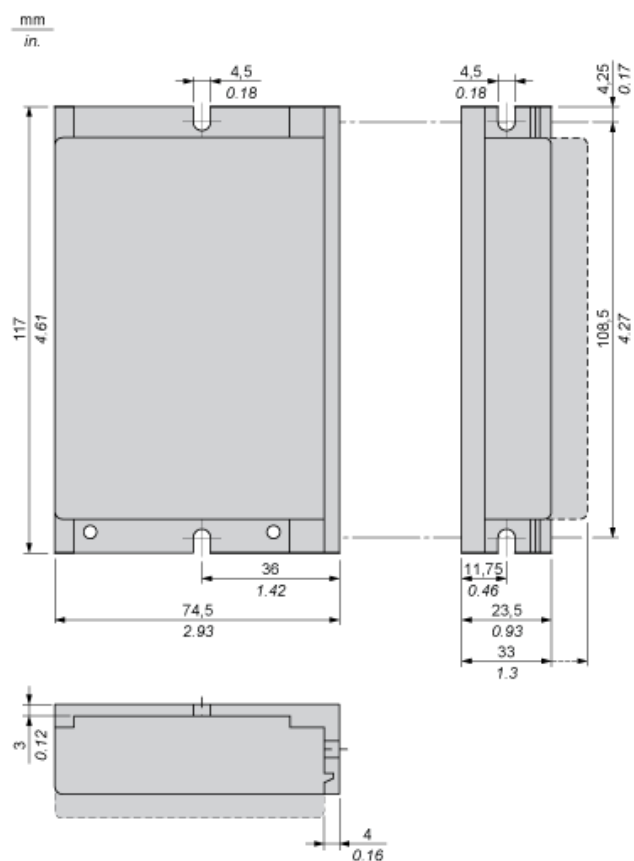
Environment

Electromagnetic compatibility	Voltage/Current impulse level 3 conforming to EN/IEC 61000-4-5 Immunity to radiated radio-electrical interference level 3 conforming to EN/IEC 61000-4-3 Immunity to electrical transients level 4 conforming to EN/IEC 61000-4-4 Electrostatic discharge level 3 conforming to EN/IEC 61000-4-2
Standards	EN/IEC 50178 EN/IEC 61800-3 EN/IEC 61800-3 environment 1 EN/IEC 61800-3 environment 2 EN/IEC 61800-5-1
Product certifications	CUL UL
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...< 2000 m without derating (maximum ambient temperature 40°C, lateral distance of > 20 mm) <= 1000 m without derating
Vibration resistance	1.5 mm (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6
IP degree of protection	IP20

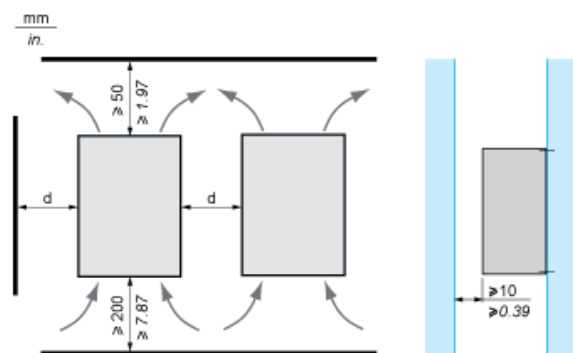
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0826 - Schneider Electric declaration of conformity
REACH	Reference contains SVHC above the threshold - go to CaP for more details
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

Dimensions

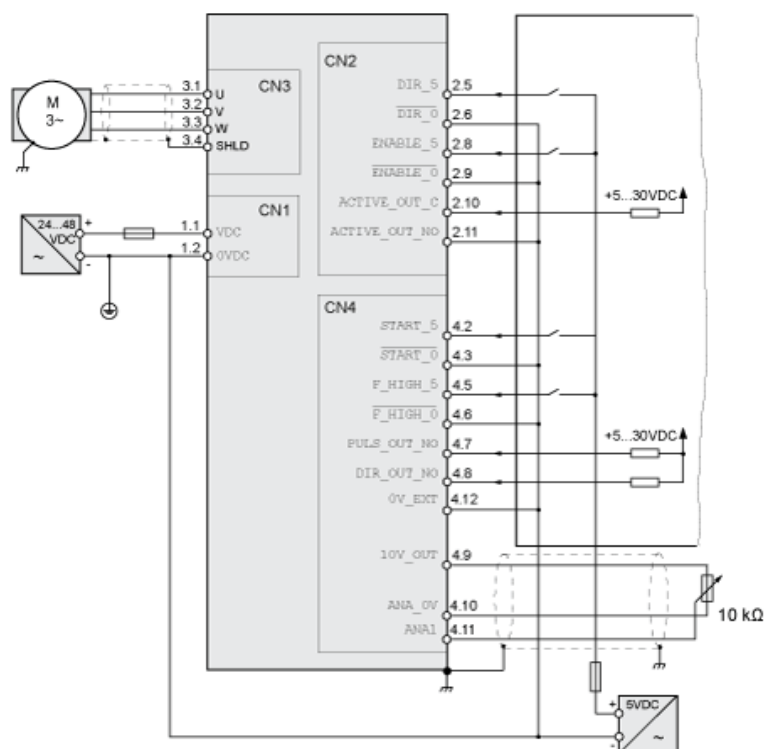


Mounting and Clearance



d : >30 mm/1.18 in.

Wiring Example with 5 V



Wiring Example with 24 V

