



Main

Range of product	Lexium SD3
Product or component type	Motion stepper drive
Device short name	SD328
Supply voltage limits	200...240 V 100...120 V
Bus type	Fieldbus

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	Profibus DP fieldbus, integrated
Maximum motor phase current	2.5 A
Current consumption	3 A 230 V main supply 4 A 115 V main supply ≤ 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
Power losses	≤ 26 W
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 <10 m IEC 60990-3

Voltage state 0 guaranteed	-3...5 V for 24 V input signals
Voltage state 1 guaranteed	15...30 V for 24 V input signals
Input current	10 mA for 24 V input signals
Maximum input frequency	200 kHz for signal input ENC_A, ENC_B, ENC_I - control type pulse/direction 400 kHz for signal input ENC_A, ENC_B, ENC_I - control type A/B
Maximum output frequency	400 kHz for pulse/direction interface A/B 200 kHz for pulse/direction interface pulse/direction
Maximum switching current	50 mA (24 V output signals)
Maximum voltage drop	<1 V 50 mA load for 24 V output signals
Physical interface	RS422 - pulse/direction interface RS422 - signal input ENC_A, ENC_B, ENC_I
Output voltage	<= 30 V (24 V output signals) 4.75...5.25 V (ENC+5V_OUT signal output)
Input voltage	24 V -15 %/+20 % for 24 V control voltage
Residual ripple	< 5 % (24 V control voltage)
Resistance	5 kOhm (pulse/direction interface)
Safety function	Safe torque off safety function for machine conforming to IEC/EN 61800-5-2 Safe torque off safety function for machine conforming to ISO 13849-1 level d Safe torque off safety function for system process conforming to EN/IEC 61508 level SIL2 Safe torque off safety function for system process conforming to IEC/EN 61800-5-2
Type of cooling	Natural convection
Maximum mechanical speed	3000 rpm
Height	145 mm
Width	72 mm
Depth	140 mm
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60068-2-27
Net weight	1.1 kg

Environment

Electromagnetic compatibility	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
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1 EN/IEC 61800-3 environment 2 EN/IEC 50178 EN/IEC 61800-3 environment 1
Product certifications	UL TÜV 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, no protective film, lateral distance of > 50mm)
Vibration resistance	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
IP degree of protection	IP20 On upper part: IP40 (without removal of protective film)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.255 kg

Package 1 Height	13.3 cm
Package 1 width	16.8 cm
Package 1 Length	18.7 cm
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Weight	8.448 kg
Package 2 Height	30 cm
Package 2 width	40 cm
Package 2 Length	60 cm
Unit Type of Package 3	S06
Number of Units in Package 3	33
Package 3 Weight	54.415 kg
Package 3 Height	73.5 cm
Package 3 width	60 cm
Package 3 Length	80 cm

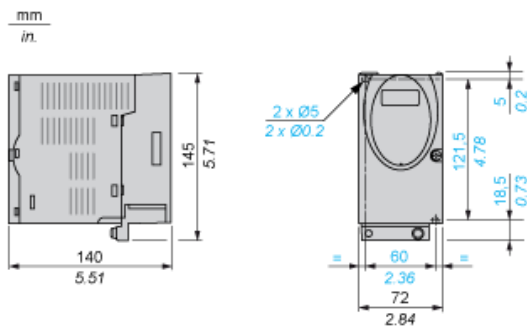
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
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 www.P65Warnings.ca.gov

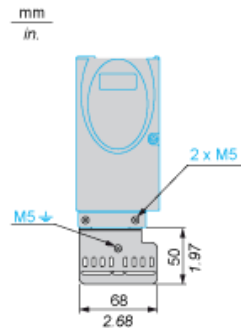
Contractual warranty

Warranty	18 months
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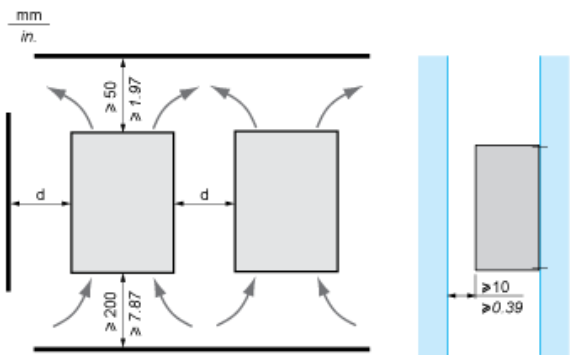
Dimensions



EMC mounting plate (included)

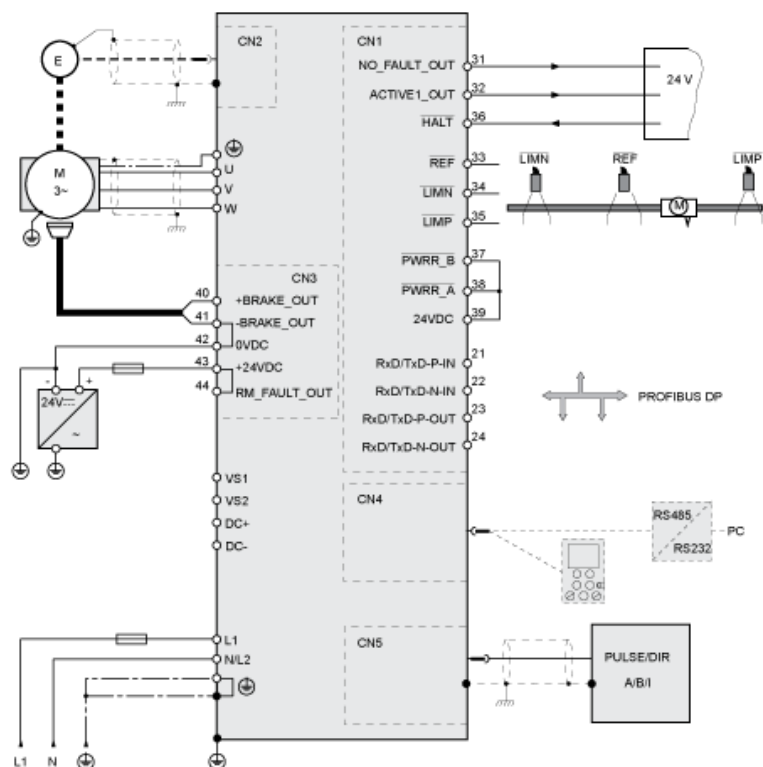


Mounting and Clearance

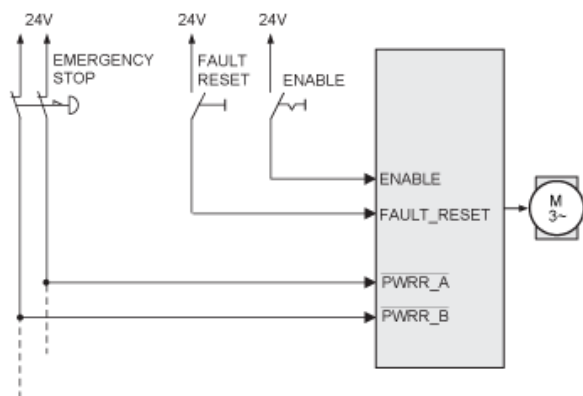


Ambient temperature	Mounting distances	Mounting recommendations	
		Without protective film (1)	With protective film
0 ... +40 °C	d > 50 mm/1.97 in.	None	None
	d > 50 mm/1.97 in.	None	d > 10 mm/0.39 in.
+40 ... +50 °C	d > 50 mm/1.97 in.	None	Reduce nominal and continuous current by 2.2 % per °C above 40 °C
	d > 50 mm/1.97 in.	Reduce nominal and continuous current	Operation not possible
(1) Recommendation: remove protective film after installation.			

SD328B Connection Example with Fieldbus Control



Example of Application of the Safety Function: Category 0 Stop



Example of Application of the Safety Function: Category 1 Stop

