Product data sheet
Characteristics

SD328BU68S2
motion control stepper motor drive - SD328 - Profibus DP fieldbus - <= 6.8 A



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	6.8 A
Current consumption	5 A 230 V main supply 7 A 115 V main supply <= 0.2 mA 24 V control voltage
Nominal power	280 W at 115 V 420 W at 230 V
Short-circuit current	0.5 KA
Power losses	<= 65 W
Associated fuse rating	10 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	Fan
Maximum mechanical speed	3000 Rpm
Height	145 Mm
Width	72 Mm
Depth	140 Mm
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Net weight	1.2 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	EN/IEC 61800-3 EN/IEC 61800-5-1
Product certifications	UL[RETURN]cUL[RETURN]TÜV
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, later
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 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 Height	16.500 Cm
Package 1 Width	17.500 Cm
Package 1 Length	18.800 Cm
Package 1 Weight	1.324 Kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30.000 Cm
Package 2 Width	40.000 Cm
Package 2 Length	60.000 Cm
Package 2 Weight	5.300 Kg
Unit Type of Package 3	P12
Number of Units in Package 3	16
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	21.500 Kg

Offer Sustainability

Recyclability potential, in %	98
Total lifecycle Carbon footprint	1 119 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	96.37366972304423
Carbon footprint of the manufacturing phase [A1 to A3]	96 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.46510992738914975
Carbon footprint of the distribution phase [A4]	0.5 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.5051515731778106
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1019.3826348537897
Carbon footprint of the use phase [B2, B3, B4, B6]	1 019 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	1.989609116987269
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	1119
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	19ee4950-c76c-48d9-8353-203688a9f056
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised