

# Product data sheet

Specifications



motion servo drive, Lexium 28,  
single and three phase, 200 to  
240V, 50W

LXM28AUA5M3X

## Main

Range Of Product	Lexium 28
Product Or Component Type	Motion servo drive
Device Short Name	LXM28A
Format Of The Drive	Compact housing
Line Current	0.8 A 262.8 % at 220 V, single phase 0.8 A 227 % at 220 V, three phase

## Complementary

Network Number Of Phases	Single phase Three phase
[Us] Rated Supply Voltage	200...240 V (- 10...15 %) for three phase 200...240 V (- 20...15 %) for single phase
Supply Voltage Limits	200...255 V three phase 170...255 V single phase
Supply Frequency	50/60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
Emc Filter	Without EMC filter
Continuous Output Current	0.64 A at 16 kHz
Output Current 3S Peak	2 A at 220 V
Continuous Power	50 W at 220 V
Nominal Power	0.05 kW at 220 V 16 kHz
Switching Frequency	16 kHz
Overvoltage Category	III
Maximum Leakage Current	1.3 mA
Output Voltage	<= power supply voltage
Electrical Isolation	Between power and control
Type Of Cable	Shielded motor cable (temperature: 0...55 °C) copper
Electrical Connection	Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (L1-L2) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (PA/+, PBe)
Discrete Input Number	8 programmable (CN1) 1 pulse train input (PTI) (CN1) 2 fast capture (CN1) 1 safety function STO (CN9)
Discrete Input Voltage	24 V DC for logic

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

Discrete Input Logic	Positive or negative (CN1)
Discrete Output Number	5 logic output (CN1) at 12...24 V DC 1 pulse train output (PTO) (CN1)
Discrete Output Voltage	12...24 V DC
Discrete Output Logic	Positive or negative (CN1)
Analogue Input Number	2
Absolute Accuracy Error	0.1 %
Analogue Input Type	V_REF voltage analog input: - 10...10 V, impedance: 10 kOhm, resolution: 14 bits T_REF voltage analog input
Control Signal Type	Servo motor encoder feedback CN2
Protection Type	Against reverse polarity: inputs signal Against short-circuits: outputs signal Overcurrent: motor Overvoltage: motor Undervoltage: motor Overheating: motor Overload: motor Overspeed: motor
Safety Function	STO (safe torque off), integrated
Safety Level	SIL 2 conforming to IEC 61800-5-2: 2007 SIL 2 conforming to IEC 61508-1: 2010 PL d/category 3 conforming to ISO 13849-1: 2008 SIL 2 conforming to ISO 13849-1: 2009/AC SIL 2 conforming to IEC 60204-1: 2006 SIL 2 conforming to IEC 60204-1: 2009/A1 SIL 2 conforming to IEC 60204-1: 2010/AC SIL 2 conforming to IEC 62061: 2012
Communication Interface	CANopen, integrated CANmotion, integrated
Connector Type	RJ45 (CN4) for CANopen, CANmotion
Method Of Access	Slave
Transmission Rate	250 kbit/s for bus length of 100...250 m for CANopen, CANmotion 500 kbit/s for bus length of 4...100 m for CANopen, CANmotion 1 Mbit/s for bus length of 4 m for CANopen, CANmotion
Number Of Addresses	1...127 for CANopen, CANmotion
Physical Interface	RS485 for Modbus Serial line slave
Status Led	1 LED (red) charge 1 LED (green) RUN 1 LED (red) error
Signalling Function	Servo status and fault codes five 7-segment display units
Marking	CE CSA CULus
Type Of Cooling	Natural convection
Operating Position	Vertical
Product Compatibility	Servo motor BCH2 (40 mm, 1 motor stacks) at 50 W
Width	55 mm
Height	150 mm
Depth	146 mm
Net Weight	1 kg
Output Current 3S Peak 2	2 A at 220 V
Output Current 3S Peak 3	2 A at 220 V

# Environment

Electromagnetic Compatibility	Conducted emission - test level: level 3 category C3 conforming to IEC 61800-3
Standards	IEC 61800-5-1
Product Certifications	CSA CE cULus
Ip Degree Of Protection	IP20
Vibration Resistance	3M4 amplitude = 3 mm (f = 9...200 Hz) conforming to IEC 60721-3-3
Shock Resistance	10 gn, type I conforming to IEC 60721-3-3
Relative Humidity	5...95 % without condensation
Ambient Air Temperature For Operation	0...55 °C
Ambient Air Temperature For Storage	-25...65 °C
Operating Altitude	<= 1000 m without derating > 1000...2000 m 1 % per 100 m

# Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	23 cm
Package 1 Length	23.7 cm
Package 1 Weight	1.26 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.043 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	40
Package 3 Height	60 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	55.12 kg

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency   RoHS/REACH

## Well-being performance

✓ Reach Free Of Svhc

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

✓ Pvc Free

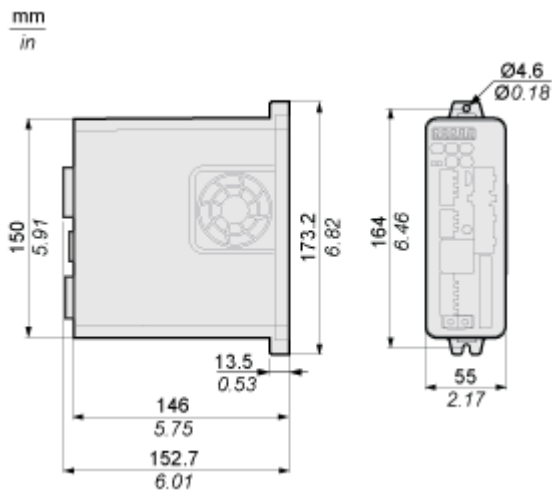
## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

Dimensions Drawings

Dimensions

Dimensions of Drive



Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

