

# Product data sheet

Specifications



motion servo drive, Lexium 28, three phase, 200 to 240V, 4.5kW

LXM28AU45M3X

## 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	17.9 A 147.1 % at 220 V, three phase

## Complementary

Network Number Of Phases	Three phase
[Us] Rated Supply Voltage	200...240 V (- 10...15 %) for three phase
Supply Voltage Limits	200...255 V three phase
Supply Frequency	50/60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
Emc Filter	Without EMC filter
Continuous Output Current	22.9 A at 8 kHz
Output Current 3S Peak	61 A at 220 V
Continuous Power	4500 W at 220 V
Nominal Power	4.5 kW at 220 V 8 kHz
Switching Frequency	8 kHz
Overvoltage Category	III
Maximum Leakage Current	1.55 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: 6 mm <sup>2</sup> , AWG 10 (L1-L2) Spring terminal, clamping capacity: 6 mm <sup>2</sup> , AWG 10 (R, S, T) Spring terminal, clamping capacity: 6 mm <sup>2</sup> , AWG 10 (U, V, W, PE) Spring terminal, clamping capacity: 6 mm <sup>2</sup> , AWG 10 (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
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)

<b>Discrete Output Voltage</b>	12...24 V DC
<b>Discrete Output Logic</b>	Positive or negative (CN1)
<b>Analogue Input Number</b>	2
<b>Absolute Accuracy Error</b>	0.1 %
<b>Analogue Input Type</b>	V_REF voltage analog input: - 10...10 V, impedance: 10 kOhm, resolution: 14 bits T_REF voltage analog input
<b>Control Signal Type</b>	Servo motor encoder feedback CN2
<b>Protection Type</b>	Against reverse polarity: inputs signal Against short-circuits: outputs signal Overcurrent: motor Overvoltage: motor Undervoltage: motor Overheating: motor Overload: motor Overspeed: motor
<b>Safety Function</b>	STO (safe torque off), integrated
<b>Safety Level</b>	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
<b>Communication Interface</b>	CANopen, integrated CANmotion, integrated
<b>Connector Type</b>	RJ45 (CN4) for CANopen, CANmotion
<b>Method Of Access</b>	Slave
<b>Transmission Rate</b>	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
<b>Number Of Addresses</b>	1...127 for CANopen, CANmotion
<b>Physical Interface</b>	RS485 for Modbus Serial line slave
<b>Status Led</b>	1 LED (red) charge 1 LED (green) RUN 1 LED (red) error
<b>Signalling Function</b>	Servo status and fault codes five 7-segment display units
<b>Marking</b>	CULus CSA CE
<b>Type Of Cooling</b>	Integrated fan
<b>Operating Position</b>	Vertical
<b>Product Compatibility</b>	Servo motor BCH2 (180 mm, 3 motor stacks) at 4500 W Servo motor BCH2 (180 mm, 2 motor stacks) at 3500 W
<b>Width</b>	116 mm
<b>Height</b>	234 mm
<b>Depth</b>	186 mm
<b>Net Weight</b>	3.2 kg
<b>Output Current 3S Peak 2</b>	61 A at 220 V
<b>Output Current 3S Peak 3</b>	61 A at 220 V

## Environment

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

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	19.6 cm
<b>Package 1 Width</b>	25.8 cm
<b>Package 1 Length</b>	34.7 cm
<b>Package 1 Weight</b>	4.988 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.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

✓ Reach Free Of Svhc

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Pvc Free

## Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation

[China RoHS declaration](#)

Environmental Disclosure

[Product Environmental Profile](#)

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile

[End of Life Information](#)

California Proposition 65

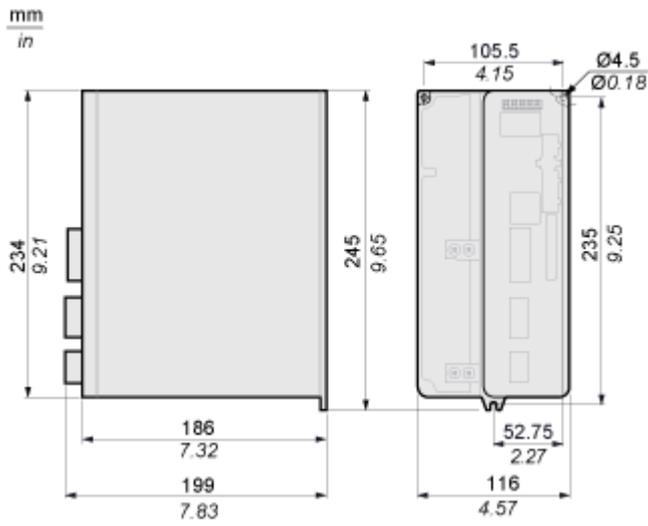
WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions

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Dimensions of Drive



Mounting and Clearance

Mounting Clearance

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Mounting Distances and Air Circulation

mm  
in.

