

# Product data sheet

Specifications



motion servo drive, Lexium 28,  
single and three phase, 200 to  
240V, 400W

LXM28AU04M3X

## Main

Range of product	Lexium 28
Device short name	LXM28A
Product or component type	Motion servo drive
Format of the drive	Compact housing
Line current	3.8 A 211.6 % at 220 V, single phase 3.8 A 183.7 % at 220 V, three phase

## Complementary

Network number of phases	Three phase Single 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	2.6 A at 16 kHz
Output current 3s peak	7.8 A at 220 V
Continuous power	400 W at 220 V
Nominal power	0.4 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 mm <sup>2</sup> , AWG 18 (L1-L2) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , 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

<b>Discrete input logic</b>	Positive or negative (CN1)
<b>Discrete output number</b>	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>	CSA CE CULus
<b>Type of cooling</b>	Natural convection
<b>Operating position</b>	Vertical
<b>Product compatibility</b>	Servo motor BCH2 (60 mm, 2 motor stacks) at 400 W Servo motor BCH2 (80 mm, 1 motor stacks) at 400 W Servo motor BCH2 (130 mm, 1 motor stacks) at 300 W
<b>Width</b>	55 mm
<b>Height</b>	150 mm
<b>Depth</b>	146 mm
<b>Product weight</b>	1 kg

<b>Supply voltage description</b>	Three phase 220 V AC 50...60 Hz Single phase 220 V AC 50...60 Hz
<b>Network number of phases</b>	1 3
<b>Drive voltage drop coefficient</b>	1
<b>Field weakening</b>	False
<b>Continuous output current 2</b>	2.6 A
<b>Output current 3s peak 2</b>	7.8 A at 220 V
<b>Switching frequency 2</b>	16 kHz
<b>Continuous output current 3</b>	2.6 A
<b>Output current 3s peak 3</b>	7.8 A at 220 V
<b>Switching frequency 3</b>	16 kHz
<b>Communication interface</b>	Pulse train input CANmotion Pulse train output CANopen DS402
<b>Emc filter compatibility</b>	Type 022 Type 020

## 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>	7.300 cm
<b>Package 1 Width</b>	23.000 cm
<b>Package 1 Length</b>	23.600 cm
<b>Package 1 Weight</b>	1.316 kg
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	5
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	30.000 cm

<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	7.000 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	40
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	80.000 cm
<b>Package 3 Length</b>	60.000 cm
<b>Package 3 Weight</b>	64.000 kg



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 967

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard No

Packaging without single use plastic No

[EU RoHS Directive](#) Pro-active compliance (Product out of EU RoHS legal scope)

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)**

PVC free Yes

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

Take-back No

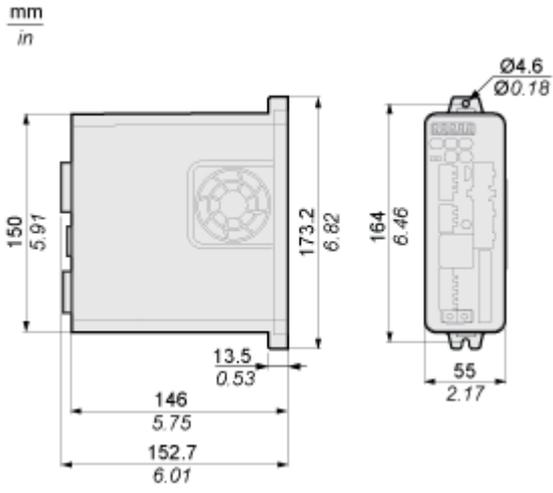
WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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.

