# **Product datasheet**

Specifications





# motion servo drive - Lexium 28 - three phase 200...230 V - 3 kW

LXM28AU30M3X

() Discontinued on: Aug 27, 2020

① Discontinued

#### 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	11.8 A 155.8 % at 220 V, three phase

## Complementary

Network number of phases	Three phase
[Us] rated supply voltage	200240 V (- 1015 %) for three phase
Supply voltage limits	200255 V three phase
Supply frequency	50/60 Hz - 55 %
network frequency	47.563 Hz
EMC filter	Without EMC filter
Continuous output current	19.8 A at 8 kHz
Output current 3s peak	60 A at 220 V
Continuous power	3000 W at 220 V
Nominal power	3 kW at 220 V 8 kHz
switching frequency	8 kHz
Overvoltage category	III
Maximum leakage current	1.6 mA
Output voltage	<= power supply voltage
Electrical isolation	Between power and control
Type of cable	Shielded motor cable (temperature: 055 °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 1224 V DC 1 pulse train output (PTO) (CN1)
Discrete output voltage	1224 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: - 1010 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 60204-1: 2010/AC         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
Connector type Method of access	RJ45 (CN4) for CANopen, CANmotion Slave
Method of access	Slave 250 kbit/s for bus length of 100250 m for CANopen, CANmotion 500 kbit/s for bus length of 4100 m for CANopen, CANmotion
Method of access Transmission rate	Slave 250 kbit/s for bus length of 100250 m for CANopen, CANmotion 500 kbit/s for bus length of 4100 m for CANopen, CANmotion 1 Mbit/s for bus length of 4 m for CANopen, CANmotion
Method of access Transmission rate Number of addresses	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion
Method of access Transmission rate Number of addresses Physical interface	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (green) RUN
Method of access Transmission rate Number of addresses Physical interface Status LED	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (green) RUN         1 LED (red) error
Method of access Transmission rate Number of addresses Physical interface Status LED Signalling function	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA         CSA
Method of access Transmission rate Number of addresses Physical interface Status LED Signalling function marking	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA CE CULus
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (green) RUN         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA CE CULus         Integrated fan
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling         Operating position	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA         CE         CULus         Integrated fan         Vertical
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling         Operating position         Product compatibility	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA         CE         CULus         Integrated fan         Vertical         Servo motor BCH2 (180 mm, 2 motor stacks) at 3000 W
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling         Operating position         Product compatibility         Width	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA         CULus         Integrated fan         Vertical         Servo motor BCH2 (180 mm, 2 motor stacks) at 3000 W         116 mm
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling         Operating position         Product compatibility         Width         Height	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (red) charge         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA CE CULus         Integrated fan         Vertical         Servo motor BCH2 (180 mm, 2 motor stacks) at 3000 W         116 mm         234 mm
Method of access         Transmission rate         Number of addresses         Physical interface         Status LED         Signalling function         marking         Type of cooling         Operating position         Product compatibility         Width         Height         Depth	Slave         250 kbit/s for bus length of 100250 m for CANopen, CANmotion         500 kbit/s for bus length of 4100 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1 Mbit/s for bus length of 4 m for CANopen, CANmotion         1127 for CANopen, CANmotion         RS485 for Modbus Serial line slave         1 LED (red) charge         1 LED (green) RUN         1 LED (green) RUN         1 LED (red) error         Servo status and fault codes five 7-segment display units         CSA         CE         CULus         Integrated fan         Vertical         Servo motor BCH2 (180 mm, 2 motor stacks) at 3000 W         116 mm         234 mm         186 mm

### Environment

Electromagnetic compatibility	Conducted emission - test level: level 3 category C3 conforming to IEC 61800-3
Standards	IEC 61800-5-1
Product certifications	CSA cULus CE
IP degree of protection	IP20
Vibration resistance	3M4 amplitude = 3 mm (f = 9200 Hz) conforming to IEC 60721-3-3
Shock resistance	10 gn, type I conforming to IEC 60721-3-3
Relative humidity	595 % without condensation
Ambient air temperature for operation	055 °C
Ambient air temperature for storage	-2565 °C
Operating altitude	<= 1000 m without derating > 10002000 m 1 % per 100 m

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.6 cm
Package 1 Width	25.8 cm
Package 1 Length	34.7 cm
Package 1 Weight	4996.67 g

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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**

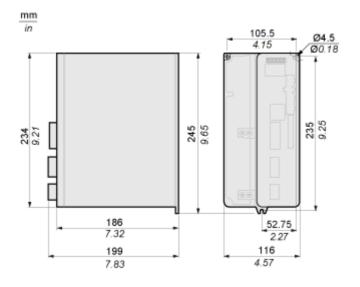
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

# Product datasheet

#### **Dimensions Drawings**

#### Dimensions

#### **Dimensions of Drive**



#### **Product datasheet**

Mounting and Clearance

#### Mounting Clearance

#### **Mounting Distances and Air Circulation**

