

# motion servo drive, Lexium 28, single and three phase, 200 to 240V, 1.5kW

LXM28AU15M3X

## 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	10 A 166.6 % at 220 V, single phase 10 A 144.8 % at 220 V, three phase	

# Complementary

Network number of phases	Three phase Single phase	
[Us] rated supply voltage	200240 V (- 1015 %) for three phase 200240 V (- 2015 %) for single phase	
Supply voltage limits	200255 V three phase 170255 V single phase	
Supply frequency	50/60 Hz - 55 %	
Network frequency	47.563 Hz	
EMC filter	Without EMC filter	
Continuous output current	7 A at 16 kHz	
Output current 3s peak	21 A at 220 V	
Continuous power	1500 W at 220 V	
Nominal power	1.5 kW at 220 V 16 kHz	
Switching frequency	16 kHz	
Overvoltage category	III	
Maximum leakage current	4.5 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: 1.31.5 mm², AWG 16 (L1-L2) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (R, S, T) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (U, V, W, PE) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (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 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 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	
Number of addresses	1127 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	CULus CSA CE	
type of cooling	Integrated fan	
Operating position	Vertical	
Product compatibility	Servo motor BCH2 (130 mm, 3 motor stacks) at 1500 W	
Width	55 mm	
Height	150 mm	
Depth	170 mm	
Net weight	1.2 kg	
Supply voltage description	Single phase 220 V AC 5060 Hz Three phase 220 V AC 5060 Hz	

Network number of phases	1
	3
Drive voltage drop coefficient	1
Field weakening	False
Continuous output current 2	7 A
Output current 3s peak 2	21 A at 220 V
Switching frequency 2	16 kHz
Continuous output current 3	7 A
Output current 3s peak 3	21 A at 220 V
Switching frequency 3	16 kHz
Communication interface	CANmotion
	Pulse train output
	Pulse train input
	CANopen DS402
Emc filter compatibility	Type 022
	Type 021

## **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	7.500 cm
Package 1 Width	23.000 cm
Package 1 Length	23.500 cm
Package 1 Weight	1.497 kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.983 kg



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	3033
Environmental Disclosure	Product Environmental Profile

## **Use Better**

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Not applicable, out of EU RoHS legal scope
REACh Regulation	REACh Declaration
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

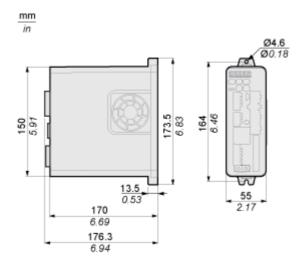
# **Product datasheet**

## LXM28AU15M3X

**Dimensions Drawings** 

## **Dimensions**

## **Dimensions of Drive**



## LXM28AU15M3X

Mounting and Clearance

## **Mounting Clearance**

## **Mounting Distances and Air Circulation**

mm in.

