

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

LXM28AUA5M3X

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	0.8 A 262.8 % at 220 V, single phase 0.8 A 227 % at 220 V, three phase

Complementary

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Network number of phases	Single phase Three 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	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: 055 °C) copper	
Electrical connection	Spring terminal, clamping capacity: 0.821 mm², AWG 18 (L1-L2) Spring terminal, clamping capacity: 0.821 mm², AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.821 mm², AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.821 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	

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	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	
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	0.64 A
Output current 3s peak 2	2 A at 220 V
Switching frequency 2	16 kHz
Continuous output current 3	0.64 A
Output current 3s peak 3	2 A at 220 V
Switching frequency 3	16 kHz
Communication interface	Pulse train output CANopen DS402 CANmotion Pulse train input
Emc filter compatibility	Type 020 Type 022

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 = 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	
	> 10002000 m 1 % per 100 m	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 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



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	253
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)
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

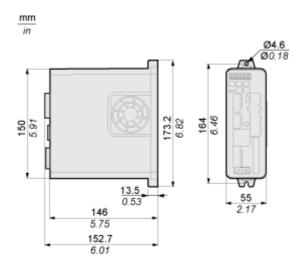
Product datasheet

LXM28AUA5M3X

Dimensions Drawings

Dimensions

Dimensions of Drive



LXM28AUA5M3X

Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm ŵa

