

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

LXM28EUA5M3X

Main

Range of product	Lexium 28	
Device short name	LXM28E	
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

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	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) 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)	
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 62061: 2012	
Communication interface	EtherCAT, integrated	
Connector type	RJ45 (CN4) for EtherCAT	
Method of access	Slave	
Transmission rate	100 Mbit/s for EtherCAT	
Physical interface	RS485 for Modbus Serial line slave	
Status LED	1 LED (red) DC bus energized 1 LED (multi-colour) N.RUN 1 LED (multi-colour) N.ERR 2 LEDs (yellow) Link (Link Status) 2 LEDs (yellow) activity	
Signalling function	Servo status and fault codes five 7-segment display units	
Marking	CULus CE CSA	
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	
Product 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 EtherCAT
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	CE cULus CSA	
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	7.5 cm
Package 1 Width	23.0 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	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.013 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

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
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

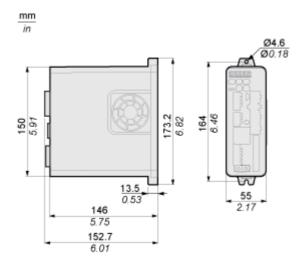
Product data sheet

LXM28EUA5M3X

Dimensions Drawings

Dimensions

Dimensions of Drive



LXM28EUA5M3X

Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm in.

