

# Product data sheet

Specifications



motion servo drive, Lexium 28,  
single and three phase, 200 to  
240V, 750W, EtherCat

LXM28EU07M3X

## 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	6 A 181.8 % at 220 V, single phase 6 A 160.6 % 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	4.5 A at 16 kHz
Output current 3s peak	13.5 A at 220 V
Continuous power	750 W at 220 V
Nominal power	0.75 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) 2 fast capture (CN1) 1 safety function STO (CN9)
Discrete input voltage	24 V DC for logic
Discrete input logic	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>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>	EtherCAT, integrated
<b>Connector type</b>	RJ45 (CN4) for EtherCAT
<b>Method of access</b>	Slave
<b>Transmission rate</b>	100 Mbit/s for EtherCAT
<b>Physical interface</b>	RS485 for Modbus Serial line slave
<b>Status LED</b>	1 LED (red) DC bus energized 1 LED (multi-colour) N.RUN 1 LED (multi-colour) N.ERR 2 LEDs (green) Link (Link Status) 2 LEDs (yellow) activity
<b>Signalling function</b>	Servo status and fault codes five 7-segment display units
<b>Marking</b>	CE CULus
<b>Type of cooling</b>	Fan
<b>Operating position</b>	Vertical
<b>Product compatibility</b>	Servo motor BCH2 (130 mm, 1 motor stacks) at 500 W Servo motor (80 mm, 2 motor stacks) at 750 W Servo motor (130 mm, 1 motor stacks) at 600 W
<b>Width</b>	55 mm
<b>Height</b>	150 mm
<b>Depth</b>	146 mm
<b>Net 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>	4.5 A
<b>Output current 3s peak 2</b>	13.5 A at 220 V

Switching frequency 2	16 kHz
Continuous output current 3	4.5 A
Output current 3s peak 3	13.5 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
IP degree of protection	IP20
Vibration resistance	3M4 amplitude = 3 mm (f = 9...200 Hz) conforming to IEC 60721-3-3
Shock resistance	10 gn, type I conforming to IEC 60721-3-3
Relative humidity	5...95 % without condensation
Ambient air temperature for operation	0...55 °C
Ambient air temperature for storage	-25...65 °C
Operating altitude	<= 1000 m without derating > 1000...2000 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	23.700 cm
Package 1 Weight	1.260 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	7.200 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 2063

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

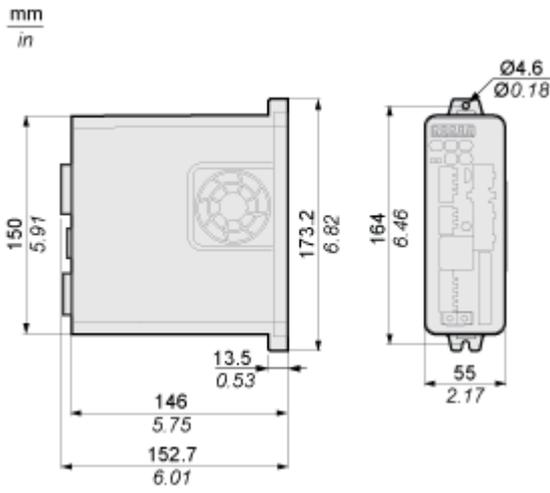
WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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.

