# Motion servo drive, Lexium 32, three phase supply voltage 208/480 V, 11 kW

LXM32MC10N4

Range of product	Lexium 32	
Product or component type	Motion servo drive	
Device short name	LXM32M	
Format of the drive	Book	
Network number of phases	Three phase	
[Us] rated supply voltage	200240 V - 1510 % 380480 V - 1510 %	
Supply voltage limits	323528 V 170264 V	
Supply frequency	50/60 Hz - 55 %	
Network frequency	47.563 Hz	
EMC filter	Integrated	
Continuous output current	40 A at 4 kHz	
Output current 3s peak	100 A for 5 s	
Maximum continuous power	11000 W at 400 V	
Nominal power	11 kW at 400 V 4 kHz	
Line current	23.3 A 140 % at 480 V, without line choke 32 A 54 % at 480 V, with external line choke of 0.5 mH 38.1 A 70 % at 380 V, with external line choke of 0.5 mH	

#### Complementary

Switching frequency	4 kHz	
Overvoltage category	III	
Maximum leakage current	30 mA	
Output voltage	<= power supply voltage	
Electrical isolation	Between power and control	
Type of cable	Single-strand IEC cable (temperature: 50 °C) copper 90 °C XLPE/EPR	
Electrical connection	Terminal, clamping capacity: 8 mm², AWG 8 (CN8)	
Tightening torque	CN8: 3.8 N.m	
Discrete input number	2 capture discrete input(s)	
Discrete input type	Capture (CAP terminals)	

Sampling duration	0.25 ms	
Discrete input voltage	24 V DC for capture	
Discrete input logic	Positive (compliment of STO_A, compliment of STO_B) at State 0: < 5 V at State 1: > 15 V conforming to EN/IEC 61131-2 type 1	
Response time	<= 5 ms compliment of STO_A, compliment of STO_B	
Discrete output number	3	
Discrete output type	Logic output(s) (DO)24 V DC	
Discrete output voltage	<= 30 V DC	
Discrete output logic	Positive or negative (DO) conforming to EN/IEC 61131-2	
Contact bounce time	<= 1 ms for compliment of STO_A, compliment of STO_B	
Braking current	50 mA	
Response time on output	250 μs (DO) for discrete output(s)	
Control signal type	Pulse train output (PTO) RS422 <500 kHz <100 m	
Protection type	Against reverse polarity: inputs signal	
Safety function	STO (safe torque off), integrated	
Safety level	SIL 3 conforming to EN/IEC 61508	
Communication interface	Modbus, integrated Profinet	
Connector type	RJ45 (labelled CN7) for Modbus	
Commissioning port	2-wire RS485 multidrop for Modbus	
Transmission rate	9600, 19200, 38400 bps for bus length of 40 m for Modbus	
Number of addresses	1247 for Modbus	
Status LED	1 LED (red) servo drive voltage	
Signalling function	Display of faults 7 segments	
Marking	CE	
Operating position	Vertical +/- 10 degree	
Product compatibility	Servo motor BMH (190 mm, 1 motor stacks) Servo motor BMH (190 mm, 2 motor stacks) Servo motor BMH (190 mm, 3 motor stacks) Servo motor BMH (190 mm, 4 motor stacks)	
Width	180 mm	
Height	385 mm	
Depth	240 mm	
Net weight	9.6 kg	

### **Environment**

Electromagnetic compatibility	Conducted EMC, class A group 1 conforming to EN 55011	
Standards	EN/IEC 61800-3	
Product certifications	CSA	
IP degree of protection	IP20 conforming to EN/IEC 60529	
Vibration resistance	1 gn (f= 13150 Hz) conforming to EN/IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to EN/IEC 60028-2-27	
Pollution degree	2 conforming to EN/IEC 61800-5-1	
Environmental characteristic	Classes 3C1 conforming to IEC 60721-3-3	
Relative humidity	Class 3K3 (5 to 85 %) without condensation conforming to IEC 60721-3-3	

Ambient air temperature for operation	050 °C conforming to UL	
Ambient air temperature for storage	-2570 °C	
Type of cooling	Integrated fan	
Operating altitude	<= 1000 m without derating	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	34.5 cm	
Package 1 Width	30.0 cm	
Package 1 Length	56.0 cm	
Package 1 Weight	10.348 kg	
Unit Type of Package 2	P06	
Number of Units in Package 2	2	
Package 2 Height	80.0 cm	
Package 2 Width	80.0 cm	
Package 2 Length	60.0 cm	
Package 2 Weight	35.0 kg	
Offen Sustainahilitu		
Offer Sustainability Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
	Yes	

18 months

**Contractual warranty** 

Warranty

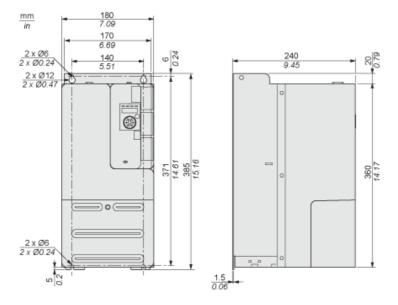
## **Product datasheet**

## LXM32MC10N4

**Dimensions Drawings** 

#### Lexium 32 Servo Drive

#### **Dimensions**



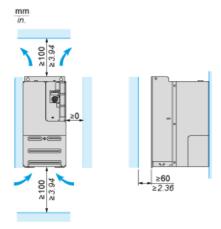
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Mounting and Clearance

#### **Lexium 32 Motion Control Servo Drives**

#### **Mounting Recommendations**



LXM32MD85N4, LXM32MC10N4 servo drives have an integrated fan.

When selecting the position of the device in the control cabinet, note the following:

- Mount the device in a vertical position (±10<sup>-</sup>). This is required for cooling the device.
- Adhere to the minimum installation distances for required cooling. Avoid heat accumulations.
- Do not mount the device close to heat sources.
- Do not mount the device on flammable materials.
- The heated airflow from other devices and components must not heat up the air used for cooling the device.
- If the thermal limits are exceeded during operation, the drive switches off (overtemperature).

NOTE: For cables that are connected via the underside of the servo drive, a free space ≥ 200 mm/7.87 in. is required under the unit to comply with the bending radius of the connection cables.

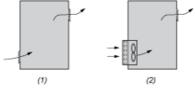
Ambient temperature	Mounting distances	Instructions to be followed
0°C+ 50°C	d ≥ 0 mm	_

NOTE: Do not use insulated enclosures, as they have a poor level of conductivity.

#### **Recommendations for Mounting in an Enclosure**

To ensure good air circulation in the servo drive:

- Fit ventilation grilles on the enclosure.
- Ensure that ventilation is adequate, otherwise install a forced ventilation unit with a filter.



- (1) Natural convection
- (2) Forced ventilation
  - Any apertures and/or fans must provide a flow rate at least equal to that of the servo drive fans (refer to characteristics).
- Use special filters with IP 54 protection.

#### Mounting in Metal Enclosure (IP 54 Degree of Protection)

The servo drive must be mounted in a dust and damp proof enclosure in certain environmental conditions, such as dust, corrosive gases, high humidity with risk of condensation and dripping water, splashing liquid, etc. In these cases, Lexium 32 servo drives can be installed in an enclosure where the internal temperature must not exceed 60°C.

#### Recommended replacement(s)