# LXM32MC10N4

motion servo drive - Lexium 32 - three-phase supply voltage 208/480V - 11 kW





#### Main

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	170264 V 323528 V		
Supply frequency	50/60 Hz (- 55 %)		
Network frequency	47.563 Hz		
EMC filter	Integrated		
Continuous output cur- rent	40 A (f = 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 (f = 4 kHz)		
Line current	23.3 A, THDI of 140 % at 480 V, without line chok 32 A, THDI of 54 % at 480 V, with external line choke of 0.5 mH 38.1 A, THDI of 70 % at 380 V, with external line choke of 0.5 mH		

#### Complementary

Complementary		
Switching frequency	4 kHz	
Overvoltage category	III	
Leakage current	< 30 mA	
Output voltage	<= power supply voltage	
Electrical isolation	Between power and control	
Type of cable	Single-strand IEC cable (for $\theta$ = 50 °C) conductor material: copper 90 °C ,wire insulation material: XLPE/EPR	
Electrical connection	Terminal cable 8 mm² AWG 8 (CN8)	
Tightening torque	3.8 N.m (CN8)	
Discrete input number	2 capture	
Discrete input type	Capture (CAP)	
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 (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 (compliment of STO_A, compliment of STO_B)	
Braking current	50 mA	

Response time on output	250 μs (DO) discrete	
Control signal type	Pulse train output (PTO) :RS422 (f = <= 500 kHz) (cable length: 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	Integrated Modbus	
Type of connector	RJ45 (labelled CN7) :Modbus	
Commissioning port	2-wire RS485 multidrop Modbus	
Transmission rate	9600, 19200, 38400 bps for bus length of <= 40 m Modbus	
Number of addresses	1247 Modbus	
Status LED	1 LED (red) servo drive voltage	
Signalling function	Display of faults in 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	
Product weight	9.6 kg	

## Environment

Electromagnetic compatibility	Conducted EMC at 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	

## Offer Sustainability

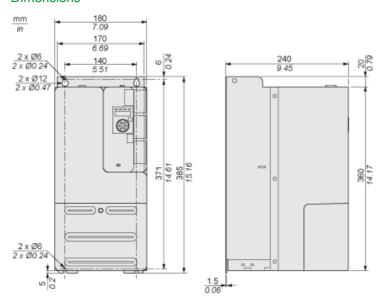
Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 1408 - Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available Download Product Environmental	
Product end of life instructions	Available 🔁 Download End Of Life Manual	



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## Lexium 32 Servo Drive

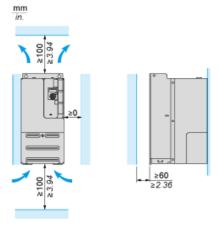
## **Dimensions**



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#### 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  $\geq$  200 mm/7.87 in. is required under the unit to comply with the bending radius of the connection cables.

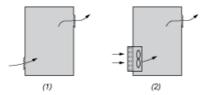
Ambient temperature	Mounting distances	Instructions to be followed
0°C+ 50°C	d ≥ 0 mm	-

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.