# LXM32MD85N4

motion servo drive, Lexium 32, 85A, three phase, supply voltage 208 to 480V, 9kW





Main	
Range of Product	Lexium 32
Product or Component Type	Motion servo drive
Device short name	LXM32M
Format of the drive	Book
Phase	Three phase
[Us] rated supply voltage	380480 V - 1510 %
Supply voltage limits	323528 V
Supply frequency	50/60 Hz - 55 %
Network Frequency	47.563 Hz
EMC filter	Integrated
Continuous output current	32 A 4 kHz
Output current 3s peak	85 A 480 V 5 s
Maximum continuous power	1600 W 400 V 9000 W 230 V 9000 W 480 V
Nominal power	9 KW 400 V 8 kHz 5 KW 230 V 4 kHz 9 kW 480 V 8 kHz
Line current	3.5 A 88 % 380 V, with external line choke 2 mH 2.9 A 98 % 480 V, with external line choke 2 mH 3.6 A 174 % 480 V, without line choke

19.9 A 145 % 480 V, without line choke

#### Complementary

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 122 °F (50 °C)) copper 90 °C XLPE/EPR
Electrical connection	Terminal 5 mm², AWG 10 CN1) Terminal 5 mm², AWG 10 CN10) Terminal 8 mm², AWG 8 CN8)
Tightening torque	CN1 6.20 lbf.in (0.7 N.m) CN10 6.20 lbf.in (0.7 N.m) CN8 33.63 lbf.in (3.8 N.m)
Discrete input number	2 capture 2 safety 4 logic
Discrete input type	Capture CAP Logic DI Safety compliment of STO_A, compliment of STO_B
Sampling duration	DI 0.25 ms discrete 0.25 ms
Discrete input voltage	24 V DC capture 24 V DC logic 24 V DC safety

Discrete input logic	Positive compliment of STO_A, compliment of STO_B)< 5 V > 15 V EN/IEC 61131-2 type 1 Positive DI)> 19 V < 9 V EN/IEC 61131-2 type 1 Positive or negative DI)< 5 V > 15 V EN/IEC 61131-2 type 1 <= 5 ms compliment of STO_A, compliment of STO_B	
Response time		
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)EN/IEC 61131-2	
Contact bounce time	<= 1 ms compliment of STO_A, compliment of STO_B 2 μs CAP 0.25 μs1.5 ms DI	
Braking current	50 mA	
Response time on output	250 μs DO)discrete	
Control signal type	Pulse train output (PTO) RS422 <500 kHz <328.08 ft (100 m) Pulse/Direction (P/D), A/B, CW/CCW 5 V, 24 V link (open collector) <10 kHz <3.28 ft (1 m) Pulse/Direction (P/D), A/B, CW/CCW 5 V, 24 V link (push-pull) <200 kHz <32.81 ft (10 m) Pulse/direction (P/D), A/B, CW/CCW RS422 <1000 kHz <328.08 ft (100 m)	
Protection type	Against reverse polarity inputs signal Against short-circuits outputs signal	
Safety function	STO (safe torque off), Integrated SS1 (safe stop 1), with separated eSM safety card SS2 (safe stop 2), with separated eSM safety card SLS (safe limited speed), with separated eSM safety card	
Safety level	SIL 3 EN/IEC 61508 PL = e ISO 13849-1	
Communication interface	Modbus, Integrated CANopen, with separated communication card CANmotion, with separated communication card Ethernet/IP, with separated communication card DeviceNet, with separated communication card I/O, with separated communication card Profinet, with separated communication card	
Connector type	RJ45 (labelled CN7) Modbus	
Commissioning port	2-wire RS485 multidrop Modbus	
Transmission rate	9600, 19200, 38400 bps 131.23 ft (40 m) Modbus	
Number of addresses	1247 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 7.48 in (190 mm), 1 Servo motor BMH 7.48 in (190 mm), 2 Servo motor BMH 7.48 in (190 mm), 3 Servo motor BMH 8.07 in (205 mm), 3	
Width	7.09 in (180 mm)	
Height	15.16 in (385 mm)	
Depth	9.45 in (240 mm)	
Net Weight	21.16 lb(US) (9.6 kg)	

## Environment

Electromagnetic compatibility	Conducted EMC, class A group 1 EN 55011	
Lioute inaginetic compatibility	Conducted EMC, class A group 2 EN 55011	
	Conducted EMC, environment 2 category C3 EN/IEC 61800-3	
	Conducted EMC, category C2 EN/IEC 61800-3	
	Susceptibility to electromagnetic fields, level 3 EN/IEC 61000-4-3	
	1.2/50 µs shock waves immunity test, level 3 EN/IEC 61000-4-5	
	Electrical fast transient/burst immunity test, level 4 EN/IEC 61000-4-4	
	Radiated EMC, class A group 2 EN 55011 Radiated EMC, category C3 EN/IEC 61800-3	
	, ,	
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1	
Product Certifications	CSA[RETURN]TÜV[RETURN]UL	
IP degree of protection	IP20 EN/IEC 60529	
	IP20 EN/IEC 61800-5-1	
Vibration resistance	1 gn 13150 Hz)EN/IEC 60068-2-6	
	1.5 mm peak to peak 313 Hz)EN/IEC 60068-2-6	
Shock resistance	15 gn 11 ms EN/IEC 60028-2-27	
Pollution degree	2 EN/IEC 61800-5-1	
Environmental characteristic	Classes 3C1 IEC 60721-3-3	
Relative humidity	Class 3K3 (5 to 85 %) without condensation IEC 60721-3-3	
Ambient air temperature for operation	32122 °F (050 °C) UL	
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)	
Type of cooling	Integrated fan	
Operating altitude	<= 3280.84 ft (1000 m) without derating	
	> 3280.849842.52 ft (> 10003000 m) with conditions	

# Ordering and shipping details

Category	18261-LEXIUM 32 SERVO DRIVES II
Discount Schedule	PC51
GTIN	3606485402413
Returnability	No
Country of origin	ID

# Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	22.05 in (56.0 cm)
Package 1 Length	13.39 in (34.0 cm)
Package 1 Weight	23.16 lb(US) (10.506 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	2
Package 2 Height	31.50 in (80.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	65.06 lb(US) (29.512 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	<sup>™</sup> China RoHS Declaration	

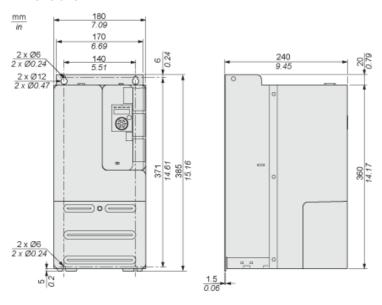
RoHS exemption information	₽¥Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
PVC free	Yes	
Contractual warranty		
Warranty	18 months	

# Product data sheet Dimensions Drawings

# LXM32MD85N4

## Lexium 32 Servo Drive

## Dimensions

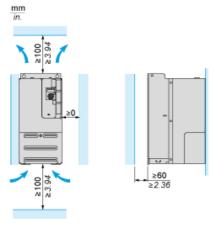


## Product data sheet Mounting and Clearance

## LXM32MD85N4

#### 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.

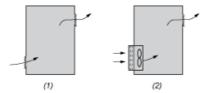
Ambient temperature	Mounting distances	Instructions to be followed
0°C+ 50°C	d ≥ 0 mm	-

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.