

motion servo drive, Lexium 32, 24A, three phase, supply voltage 208 to 480V, 7kW

LXM32SD72N4

Product availability: Stock - Normally stocked in distribution facility

Main

mam		
Range of Product	Lexium 32	
Device short name	LXM32S	
Product or Component Type	Motion servo drive	
Format of the drive	Book	
Phase	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 current	24 A 8 kHz	
Output current 3s peak	72 A 208 V 5 s 72 A 480 V 5 s	
Continuous power	6500 W 208 V 13000 W 400 V 13000 W 480 V	
Nominal power	5 kW 208 V 8 kHz 7 kW 400 V 8 kHz 7 kW 480 V 8 kHz	
Line current	21.1 A 34 % 208 V, with external line choke 1 mH 22.5 A 45 % 400 V, with external line choke 1 mH 19.5 A 55 % 480 V, with external line choke 1 mH 21.9 A 106 % 208 V, without line choke 17.3 A 126 % 400 V, without line choke 14.6 A 129 % 480 V, without line choke	

Complementary

Switching frequency	8 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 3 mm², AWG 12 CN8)	
Tightening torque	CN8 4.4 lbf.in (0.5 N.m)	

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

2 capture	
Capture CAP	
0.25 ms	
24 V DC capture	
Positive compliment of STO_A, compliment of STO_B)< 5 V > 15 V EN/IEC 61131-2 type 1	
<= 5 ms compliment of STO_A, compliment of STO_B	
3	
Logic DO)24 V DC	
<= 30 V DC	
Positive or negative DO)EN/IEC 61131-2	
<= 1 ms compliment of STO_A, compliment of STO_B	
50 mA	
250 µs DO)discrete	
STO (safe torque off), Integrated	
SIL 3 EN/IEC 61508	
SERCOS III, Integrated	
1 LED (Red) servo drive voltage	
Display of faults 7 segments	
CE	
Vertical +/- 10 degree	
Servo motor BMH 5.5 in (140 mm), 2	
4.3 in (108 mm)	
10.6 in (270 mm)	
9.3 in (237 mm)	
10.6 lb(US) (4.8 kg)	

Environment

Electromagnetic compatibility	Conducted EMC EN 55011 class A group 1	
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 11 ms EN/IEC 60028-2-27	
Pollution degree	2 EN/IEC 61800-5-1	
Environmental characteristic	Classes 3C1 conforming to 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	

Ordering and shipping details

Category	US1PC5118261	
Discount Schedule	PC51	
GTIN	3606480694790	
Returnability	Yes	
Country of origin	ID	

Packing Units

PCE	
1	
5.55 in (14.1 cm)	
10.87 in (27.6 cm)	
12.80 in (32.5 cm)	
12.421 lb(US) (5.634 kg)	
S03	
2	
11.81 in (30 cm)	
11.81 in (30 cm)	
15.75 in (40 cm)	
26.482 lb(US) (12.012 kg)	
P06	
16	
31.50 in (80 cm)	
31.50 in (80 cm)	
23.62 in (60 cm)	
230.048 lb(US) (104.348 kg)	

Contractual warranty

Warranty 18 months



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	12201
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	C0961927-b9e6-4f64-bd63-334df07b6de6
REACh Regulation	REACh Declaration
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	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

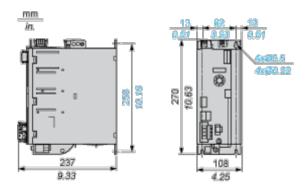
Product data sheet

LXM32SD72N4

Dimensions Drawings

Lexium 32 Servo Drive

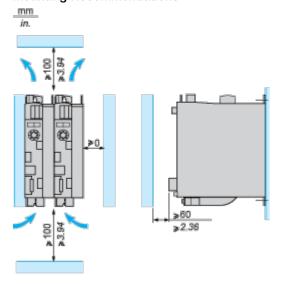
Dimensions



Mounting and Clearance

Lexium 32 Motion Control Servo Drives

Mounting Recommendations



LXM32•U45M2, •U90M2 and LXM32•U60N4 servo drives are cooled by natural convection. LXM32•D18M2, •D30M2, LXM32 •D12N4, •D18N4, •D30N4 and •D72N4servo drives have an integrated fan.

When installing the servo drive in the enclosure, follow the instructions below with regard to the temperature and protection index:

- Provide sufficient cooling of the servo drive
- Do not mount the servo drive near heat sources
- . Do not mount the servo drive on flammable materials
- Do not heat the servo drive cooling air by currents of hot air from other equipment and components, for example from an external braking resistor
- Mount the servo drive vertically (± 10%)
- If the servo drive is used above its thermal limits, control stops due to 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	-
+ 50°C+ 60°C	d ≥ 0 mm	Reduce the output current by 2.2% per °C above 50°C

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

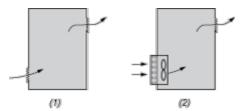
Recommendations for Mounting in an Enclosure

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.

Product data sheet

LXM32SD72N4



- (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.