

# Product data sheet

Specifications



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

LXM32SD72N4

## Main

Range of product	Lexium 32
Device short name	LXM32S
Product or component type	Motion servo drive
Format of the drive	Book
Network number of phases	Three phase
[Us] rated supply voltage	200...240 V - 15...10 % 380...480 V - 15...10 %
Supply voltage limits	170...264 V 323...528 V
Supply frequency	50/60 Hz - 5...5 %
Network frequency	47.5...63 Hz
EMC filter	Integrated
Continuous output current	24 A at 8 kHz
Output current 3s peak	72 A at 208 V for 5 s 72 A at 480 V for 5 s
Continuous power	6500 W at 208 V 13000 W at 400 V 13000 W at 480 V
Nominal power	5 kW at 208 V 8 kHz 7 kW at 400 V 8 kHz 7 kW at 480 V 8 kHz
Line current	21.1 A 34 % at 208 V, with external line choke of 1 mH 22.5 A 45 % at 400 V, with external line choke of 1 mH 19.5 A 55 % at 480 V, with external line choke of 1 mH 21.9 A 106 % at 208 V, without line choke 17.3 A 126 % at 400 V, without line choke 14.6 A 129 % at 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 (temperature: 50 °C) copper 90 °C XLPE/EPR
Electrical connection	Terminal, clamping capacity: 3 mm <sup>2</sup> , AWG 12 (CN8)
Tightening torque	CN8: 0.5 N.m

<b>Discrete input number</b>	2 capture discrete input(s)
<b>Discrete input type</b>	Capture (CAP terminals)
<b>Sampling duration</b>	0.25 ms
<b>Discrete input voltage</b>	24 V DC for capture
<b>Discrete input logic</b>	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
<b>Response time</b>	<= 5 ms compliment of STO_A, compliment of STO_B
<b>Discrete output number</b>	3
<b>Discrete output type</b>	Logic output(s) (DO)24 V DC
<b>Discrete output voltage</b>	<= 30 V DC
<b>Discrete output logic</b>	Positive or negative (DO) conforming to EN/IEC 61131-2
<b>Contact bounce time</b>	<= 1 ms for compliment of STO_A, compliment of STO_B
<b>Braking current</b>	50 mA
<b>Response time on output</b>	250 µs (DO) for discrete output(s)
<b>Safety function</b>	STO (safe torque off), integrated
<b>Safety level</b>	SIL 3 conforming to EN/IEC 61508
<b>Communication interface</b>	SERCOS III, integrated
<b>Status LED</b>	1 LED (red) servo drive voltage
<b>Signalling function</b>	Display of faults 7 segments
<b>Marking</b>	CE
<b>Operating position</b>	Vertical +/- 10 degree
<b>Product compatibility</b>	Servo motor BMH (140 mm, 2 motor stacks)
<b>Width</b>	108 mm
<b>Height</b>	270 mm
<b>Depth</b>	237 mm
<b>Net weight</b>	4.8 kg

## Environment

<b>Electromagnetic compatibility</b>	Conducted EMC conforming to EN 55011 class A group 1
<b>Standards</b>	EN/IEC 61800-3
<b>Product certifications</b>	CSA
<b>IP degree of protection</b>	IP20 conforming to EN/IEC 60529
<b>Vibration resistance</b>	1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6
<b>Shock resistance</b>	15 gn for 11 ms conforming to EN/IEC 60028-2-27
<b>Pollution degree</b>	2 conforming to EN/IEC 61800-5-1
<b>Environmental characteristic</b>	Classes 3C1 conforming to IEC 60721-3-3
<b>Relative humidity</b>	Class 3K3 (5 to 85 %) without condensation conforming to IEC 60721-3-3
<b>Ambient air temperature for operation</b>	0...50 °C conforming to UL
<b>Ambient air temperature for storage</b>	-25...70 °C
<b>Type of cooling</b>	Integrated fan
<b>Operating altitude</b>	<= 1000 m without derating

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.1 cm
Package 1 Width	27.6 cm
Package 1 Length	32.5 cm
Package 1 Weight	5.634 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	12.012 kg
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	80 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	104.348 kg

## Contractual warranty

Warranty	18 months
----------	-----------



## 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 12201

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

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](http://www.P65Warnings.ca.gov)**

PVC free Yes

## Use Again

### Repack and remanufacture

End of life manual availability [End of Life Information](#)

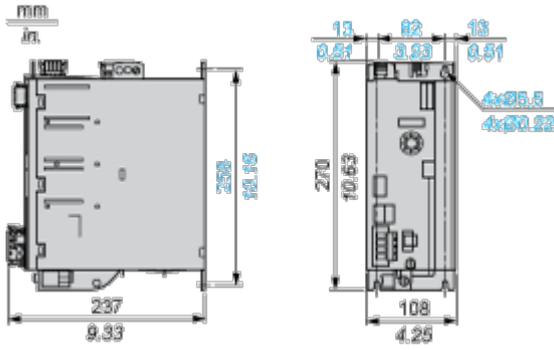
Take-back No

Dimensions Drawings

Lexium 32 Servo Drive

---

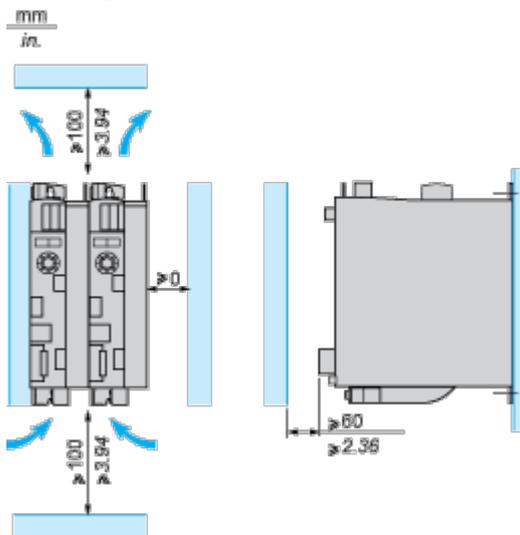
Dimensions



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 ( $\pm 10\%$ )
- 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  $\geq 200$  mm/7.87 in. is required under the unit to comply with the bending radius of the connection cables.

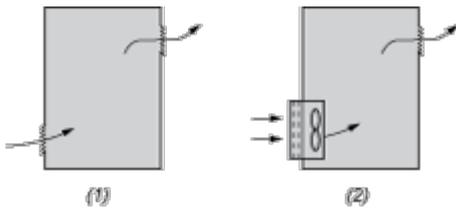
Ambient temperature	Mounting distances	Instructions to be followed
0°C...+ 50°C	$d \geq 0$ mm	–
+ 50°C...+ 60°C	$d \geq 0$ mm	Reduce the output current by 2.2% per °C above 50°C

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.



- (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.