

# Product data sheet

Specifications



motion servo drive, Lexium 32, 30A,  
single phase, supply voltage 115 to  
230V, 0.8 to 1.6kW, IP20

LXM32AD30M2

**Product availability: Non-Stock - Not normally stocked in  
distribution facility**

## Main

Range of Product	Lexium 32
Device short name	LXM32A
Product or Component Type	Motion servo drive
Format of the drive	Book
Phase	Single phase
[Us] rated supply voltage	100...120 V - 15...10 % 200...240 V - 15...10 %
Supply voltage limits	85...132 V 170...264 V
Supply frequency	50/60 Hz - 5...5 %
Network Frequency	47.5...63 Hz
EMC filter	Integrated
Continuous output current	10 A 8 kHz
Output current 3s peak	15 A 115 V 5 s 30 A 230 V 5 s
Continuous power	800 W 115 V 2200 W 230 V
Nominal power	0.8 kW 115 V 8 kHz 1.6 kW 230 V 8 kHz
Line current	9.9 A 72 % 115 V, with external line choke 2 mH 14.1 A 86 % 230 V, with external line choke 2 mH 12.9 A 135 % 115 V, without line choke 12.7 A 135 % 230 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 mm <sup>2</sup> , AWG 12 CN8) Terminal 5 mm <sup>2</sup> , AWG 10 CN1) Terminal 5 mm <sup>2</sup> , AWG 10 CN10)
Tightening torque	CN8 4.4 lbf.in (0.5 N.m) CN1 6.2 lbf.in (0.7 N.m) CN10 6.2 lbf.in (0.7 N.m)

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

<b>Discrete input number</b>	1 capture 2 safety 4 logic
<b>Discrete input type</b>	Capture CAP Logic DI Safety compliment of STO_A, compliment of STO_B
<b>Sampling duration</b>	DI 0.25 ms discrete
<b>Discrete input voltage</b>	24 V DC capture 24 V DC logic 24 V DC safety
<b>Discrete input logic</b>	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
<b>Response time</b>	<= 5 ms compliment of STO_A, compliment of STO_B
<b>Discrete output number</b>	2
<b>Discrete output type</b>	Logic DO)24 V DC
<b>Discrete output voltage</b>	<= 30 V DC
<b>Discrete output logic</b>	Positive or negative DO)EN/IEC 61131-2
<b>Contact bounce time</b>	<= 1 ms compliment of STO_A, compliment of STO_B 2 µs CAP 0.25 µs...1.5 ms DI
<b>Braking current</b>	50 mA
<b>Response time on output</b>	250 µs DO)discrete
<b>Control signal type</b>	Servo motor encoder feedback
<b>Protection type</b>	Against reverse polarity inputs signal Against short-circuits outputs signal
<b>Safety function</b>	STO (safe torque off), Integrated
<b>Safety level</b>	SIL 3 EN/IEC 61508 PL = e ISO 13849-1
<b>Communication interface</b>	CANmotion, Integrated CANopen, Integrated
<b>Connector type</b>	RJ45 (labelled CN4 or CN5) CANmotion RJ45 (labelled CN4 or CN5) CANopen
<b>Method of access</b>	Slave
<b>Transmission rate</b>	1 Mbps 13.1 ft (4 m) CANopen, CANmotion 125 kbps 1640.4 ft (500 m) CANopen, CANmotion 250 kbps 820.2 ft (250 m) CANopen, CANmotion 50 kbps 3280.8 ft (1000 m) CANopen, CANmotion 500 kbps 328.08 ft (100 m) CANopen, CANmotion
<b>Number of addresses</b>	1...127 CANopen, CANmotion
<b>Communication service</b>	1 receive SDO CANmotion 1 transmit SDO CANmotion 2 PDOs conforming to DSP 402 CANmotion 2 SDOs receive CANopen 2 SDOs send CANopen 4 configurable mapping PDOs CANopen CANopen device profile drives and motion control CANopen, CANmotion Emergency CANopen, CANmotion Event-triggered, time-triggered, remotely requested, sync (cyclic), sync (acyclic) CANopen Node guarding, heartbeat CANopen Position control mode CANmotion Position control, speed profile, torque profile and homing mode CANopen Sync CANmotion

<b>Status LED</b>	1 LED (Red) servo drive voltage 1 LED error 1 LED RUN
<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 2.8 in (70 mm), 2 Servo motor BMH 3.9 in (100 mm), 1 Servo motor BSH 2.8 in (70 mm), 2 Servo motor BMH 2.8 in (70 mm), 3 Servo motor BSH 3.9 in (100 mm), 1 Servo motor BMH 3.9 in (100 mm), 2 Servo motor BSH 3.9 in (100 mm), 2 Servo motor BMH 3.9 in (100 mm), 3 Servo motor BMH 5.5 in (140 mm), 1
<b>Width</b>	2.7 in (68 mm)
<b>Height</b>	10.6 in (270 mm)
<b>Depth</b>	9.3 in (237 mm)
<b>Net Weight</b>	4.4 lb(US) (2 kg)

## Environment

<b>Electromagnetic compatibility</b>	Conducted EMC, class A group 1 EN 55011 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 Conducted EMC, environments 1 and 2 EN/IEC 61800-3 Electrostatic discharge immunity test, level 3 EN/IEC 61000-4-2 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
<b>Standards</b>	EN/IEC 61800-5-1 EN/IEC 61800-3
<b>Product Certifications</b>	TÜV UL CSA
<b>IP degree of protection</b>	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1
<b>Vibration resistance</b>	1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f= 3...13 Hz) conforming to EN/IEC 60068-2-6
<b>Shock resistance</b>	15 gn 11 ms EN/IEC 60028-2-27
<b>Pollution degree</b>	2 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 IEC 60721-3-3
<b>Ambient air temperature for operation</b>	32...122 °F (0...50 °C) UL
<b>Ambient Air Temperature for Storage</b>	-13...158 °F (-25...70 °C)
<b>Type of cooling</b>	Integrated fan
<b>Operating altitude</b>	<= 3280.84 ft (1000 m) without derating > 3280.84...9842.52 ft (> 1000...3000 m) with conditions

## Ordering and shipping details

<b>Category</b>	US1PC5118261
<b>Discount Schedule</b>	PC51

<b>GTIN</b>	3606480076763
<b>Returnability</b>	No
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	3.3 in (8.5 cm)
<b>Package 1 Width</b>	13.0 in (33.0 cm)
<b>Package 1 Length</b>	10.9 in (27.6 cm)
<b>Package weight(Lbs)</b>	5.238 lb(US) (2.376 kg)
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	3
<b>Package 2 Height</b>	11.8 in (30 cm)
<b>Package 2 Width</b>	11.8 in (30 cm)
<b>Package 2 Length</b>	15.7 in (40 cm)
<b>Package 2 Weight</b>	16.149 lb(US) (7.325 kg)
<b>Unit Type of Package 3</b>	PAL
<b>Number of Units in Package 3</b>	24
<b>Package 3 Height</b>	30.3 in (77.0 cm)
<b>Package 3 Width</b>	23.6 in (60.0 cm)
<b>Package 3 Length</b>	31.5 in (80.0 cm)
<b>Package 3 Weight</b>	144.456 lb(US) (65.524 kg)

## Contractual warranty

<b>Warranty</b>	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

Carbon footprint (kg CO2 eq, Total Life cycle) **1654**

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

Circularity Profile [End of Life Information](#)

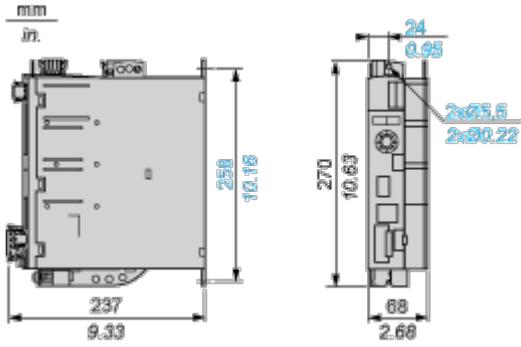
Take-back **No**

Dimensions Drawings

Lexium 32 Servo Drive

---

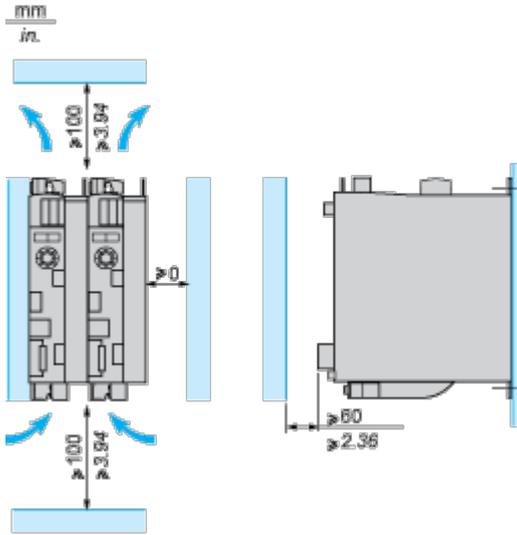
Dimensions



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.

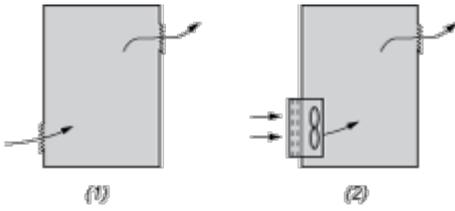
Ambient temperature	Mounting distances	Instructions to be followed
0°C...+ 50°C	$d \geq 0$ mm	–
+ 50°C...+ 60°C	$d \geq 0$ mm	Reduce the output current by 2.2% per °C above 50°C

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.