# **Product datasheet**

Specifications





# Motion servo drive, Lexium 32 single phase supply voltage 115/230 V, 0.8/1.6 kW

LXM32SD30M2

### 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	Single phase		
[Us] rated supply voltage	100120 V - 1510 % 200240 V - 1510 %		
Supply voltage limits	85132 V 170264 V		
Supply frequency	50/60 Hz - 55 %		
Network frequency	47.563 Hz		
EMC filter	Integrated		
Continuous output current	10 A at 8 kHz		
Output current 3s peak	15 A at 115 V for 5 s 30 A at 230 V for 5 s		
maximum continuous power	800 W at 115 V 2200 W at 230 V		
Nominal power	0.8 kW at 115 V 8 kHz 1.6 kW at 230 V 8 kHz		
Line current	9.9 A 72 % at 115 V, with external line choke of 2 mH 14.1 A 86 % at 230 V, with external line choke of 2 mH 12.9 A 135 % at 115 V, without line choke 12.7 A 135 % at 230 V, without line choke		

## Complementary

Switching frequency	8 kHz		
Overvoltage category	111		
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		
Discrete input number	2 capture discrete input(s)		
Discrete input type	Capture (CAP terminals)		

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 output(s) (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 for compliment of STO_A, compliment of STO_B		
Braking current	50 mA		
Response time on output	250 µs (DO) for discrete output(s)		
Safety function	STO (safe torque off), integrated		
Safety level	SIL 3 conforming to EN/IEC 61508		
Communication interface	Modbus, integrated SERCOS III, integrated		
Connector type	RJ45 (labelled CN7) for Modbus		
commissioning port	2-wire RS485 multidrop for Modbus		
Transmission rate	9600, 19200, 38400 bps for bus length of 40 m for Modbus		
Number of addresses	1247 for 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 (70 mm, 2 motor stacks)		
Width	68 mm		
Height	270 mm		
Depth	237 mm		
Net weight	2.1 kg		

## Environment

Electromagnetic compatibility	Conducted EMC conforming to 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 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	

# **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.6 cm
Package 1 Width	27.5 cm
Package 1 Length	33 cm
Package 1 Weight	2.613 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	6.16 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	56.012 kg

## **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



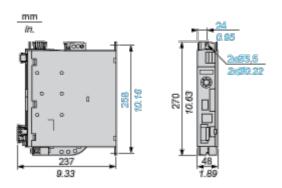
### **Certifications & Standards**

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

**Dimensions Drawings** 

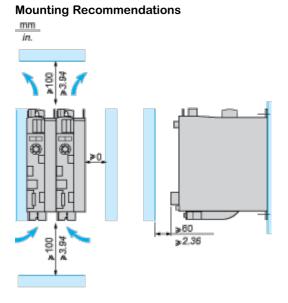
#### Lexium 32 Servo Drive

#### Dimensions



Mounting and Clearance

#### Lexium 32 Motion Control Servo Drives



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
- $_{\bullet}\,$  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  $\geq$  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	-
+ 50°C+ 60°C	d ≥ 0 mm	Reduce the output current by 2.2% per °C above 50°C

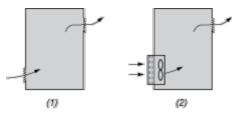
NOTE: Do not use insulated enclosures, as they have a poor level of conductivity.

#### **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.

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(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.