

# Motion servo drive, Lexium 32 single phase supply voltage 115/230 V, 0.15/0.3 kW

LXM32SU45M2

EAN Code: 3606480694806

## 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	1.5 A at 8 kHz	
Output current 3s peak	3 A at 115 V for 5 s 4.5 A at 230 V for 5 s	
Continuous power	200 W at 115 V 500 W at 230 V	
Nominal power	0.15 kW at 115 V 8 kHz 0.3 kW at 230 V 8 kHz	
Line current	2.6 A 85 % at 115 V, with external line choke of 5 mH 3.4 A 100 % at 230 V, with external line choke of 5 mH 2.9 A 173 % at 115 V, without line choke 2.9 A 181 % at 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 (temperature: 50 °C) copper 90 °C XLPE/EPR	
Electrical connection	Terminal, clamping capacity: 3 mm², 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	SERCOS III, integrated	
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 BSH (55 mm, 1 motor stacks)	
Width	68 mm	
Height	270 mm	
Depth	237 mm	
Net weight	1.7 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	Natural convection	
Operating altitude	<= 1000 m without derating	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.600 cm
Package 1 Width	27.500 cm
Package 1 Length	33.000 cm
Package 1 Weight	2.270 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.276 kg

# Logistical informations

Country of origin

# 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.eq.CO2 per CR, Total Life cycle)	451
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
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

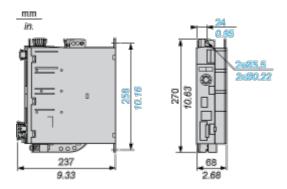
# **Product datasheet**

# LXM32SU45M2

## **Dimensions Drawings**

## Lexium 32 Servo Drive

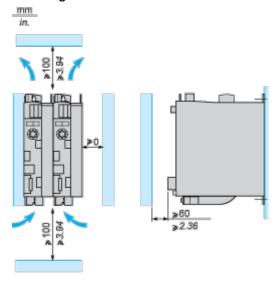
### **Dimensions**



#### 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.

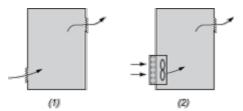
#### Recommendations for Mounting in an Enclosure

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 datasheet**

## LXM32SU45M2



- (1) Natural convection
- (2) Forced ventilation

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- 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.