# Product data sheet

Specification





motion servo drive, Lexium 32, 4.5A, single phase, supply voltage 115 to 230V, 0.15 to 0.3kW, modbus

LXM32CU45M2

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

Price\*: 829.36 USD

### Main

Range of Product	Lexium 32	
Device short name	LXM32C	
Product or Component Type	Motion servo drive	
Format of the drive	Book	
Phase	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 8 kHz	
Output current 3s peak	3 A 115 V 5 s 4.5 A 230 V 5 s	
maximum continuous power	200 W 115 V 500 W 230 V	
Nominal power	0.15 kW 115 V 8 kHz 0.3 kW 230 V 8 kHz	
Line current	2.6 A 85 % 115 V, with external line choke 5 mH 3.4 A 100 % 230 V, with external line choke 5 mH 2.9 A 173 % 115 V, without line choke 2.9 A 181 % 230 V, without line choke	

## Complementary

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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 122.0000000000 °F (50 °C)) copper 90 °C XLPE/EPR	
Electrical connection	Terminal 3 mm², AWG 12 CN8) Terminal 5 mm², AWG 10 CN1) Terminal 5 mm², AWG 10 CN10)	

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

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)		
Discrete input number	2 safety 6 logic		
Discrete input type	Logic DI Safety compliment of STO_A, compliment of STO_B		
Sampling duration	ANA1+/ANA1-, ANA2+/ANA2- 0.25 ms analog DI 0.25 ms discrete		
Discrete input voltage	24 V DC logic 24 V DC safety		
Discrete input logic	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		
Response time	<= 5 ms compliment of STO_A, compliment of STO_B		
Discrete output number	5		
Discrete output type	Logic DO)24 V DC		
Discrete output voltage	<= 30 V DC		
Discrete output logic	Positive or negative DO)EN/IEC 61131-2		
Contact bounce time	<= 1 ms compliment of STO_A, compliment of STO_B 0.25 μs1.5 ms DI		
Braking current	50 mA		
Analogue input number	2		
Response time on output	250 μs DO)discrete		
Absolute accuracy error	< +/- 0.5 %		
Linearity error	< +/- 0.1 %		
Analogue input type	ANA1+/ANA1-, ANA2+/ANA2- analog input differential +/- 10 V >= 20 Ohm 14 bits		
Control signal type	Servo motor encoder feedback Pulse train output (PTO) RS422 <500 kHz <328.08 ft (100 m) Pulse/direction (P/D), A/B, CW/CCW 5 V, 24 V link (open collector) <10 kHz <3.3 ft (1 m) Pulse/direction (P/D), A/B, CW/CCW 5 V, 24 V link (push-pull) <200 kHz <32.8 ft (10 m) Pulse/direction (P/D), A/B, CW/CCW RS422 <1000 kHz <328.08 ft (100 m)		
Protection type	Against reverse polarity inputs signal Against short-circuits outputs signal		
Safety function	STO (safe torque off), Integrated		
Safety level	SIL 3 EN/IEC 61508 PL = e ISO 13849-1		
Communication interface	Modbus, Integrated		
Connector type	RJ45 (labelled CN7) Modbus		
commissioning port	2-wire RS485 multidrop Modbus		
Transmission rate	9600, 19200, 38400 bps 131.2 ft (40 m) Modbus		
Number of addresses	1247 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 BSH 2.2 in (55 mm), 1	
Width	1.9 in (48 mm)	
Height	10.6 in (270 mm)	
Depth	9.3 in (237 mm)	
Net Weight	3.5 lb(US) (1.6 kg)	

## **Environment**

Electromagnetic compatibility	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	
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1	
<b>Product Certifications</b>	CSA UL TÜV	
IP degree of protection	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1	
Vibration resistance	1 gn 13150 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 313 Hz)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 IEC 60721-3-3	
Relative humidity	Class 3K3 (5 to 85 %) without condensation IEC 60721-3-3	
Ambient air temperature for operation	32.0000000000122.0000000000 °F (050 °C) UL	
Ambient Air Temperature for Storage	-13.0000000000158.0000000000 °F (-2570 °C)	
Type of cooling	Natural convection	
Operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.849842.52 ft (> 10003000 m) with conditions	

# Ordering and shipping details

Category	US1PC5118261	
Discount Schedule	PC51	
GTIN	3606480076640	
Returnability	No	
Country of origin	ID	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.3 in (8.5 cm)
Package 1 Width	13.0 in (33 cm)

Package 1 Length	10.9 in (27.6 cm)	
Package 1 Weight	4.506 lb(US) (2.044 kg)	
Unit Type of Package 2	S03	
Number of Units in Package 2	3	
Package 2 Height	11.8 in (30 cm)	
Package 2 Width	11.8 in (30 cm)	
Package 2 Length	15.7 in (40 cm)	
Package 2 Weight	15.10 lb(US) (6.85 kg)	
Unit Type of Package 3	P06	
Number of Units in Package 3	24	
Package 3 Height	19.7 in (50 cm)	
Package 3 Width	31.5 in (80 cm)	
Package 3 Length	23.6 in (60 cm)	
Package 3 Weight	139.6 lb(US) (63.3 kg)	

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

### **Certifications & Standards**

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	
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	

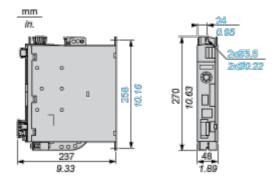
## **Product data sheet**

### LXM32CU45M2

**Dimensions Drawings** 

### Lexium 32 Servo Drive

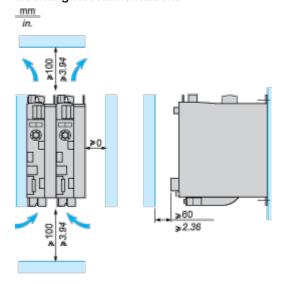
#### **Dimensions**



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.

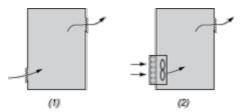
#### Recommendations for Mounting in an Enclosure

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.

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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.