Product data sheet

Specifications





motion servo drive, Lexium 32, 72A, three phase, supply voltage 208 to 480V, 0.4kW

LXM32AD72N4

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

Price*: 2,447.02 USD

Main

Range Of Product	Lexium 32	
Product Or Component Type	Motion servo drive	
Device Short Name	LXM32A	
Format Of The Drive	Book	
Phase	Three phase	
[Us] Rated Supply Voltage	200240 V - 1510 % 380480 V - 1510 %	
Supply Voltage Limits	170264 V 323528 V	
Supply Frequency	50/60 Hz - 55 %	
Network Frequency	47.563 Hz	
Emc Filter	Integrated	
Continuous Output Current	24 A 8 kHz	
Output Current 3S Peak	72 A 208 V 5 s 72 A 480 V 5 s	
Maximum Continuous Power	6500 W 208 V 13000 W 400 V 13000 W 480 V	
Nominal Power	5 kW 208 V 8 kHz 7 kW 400 V 8 kHz 7 kW 480 V 8 kHz	
Line Current	21.1 A 34 % 208 V, with external line choke 1 mH 22.5 A 45 % 400 V, with external line choke 1 mH 19.5 A 55 % 480 V, with external line choke 1 mH 21.9 A 106 % 208 V, without line choke 17.3 A 126 % 400 V, without line choke 14.6 A 129 % 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 122 °F (50 °C)) copper 90 °C XLPE/EPR	

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

Electrical Connection	Terminal 3 mm², AWG 12 CN8)	
	Terminal 5 mm², AWG 10 CN1)	
	Terminal 5 mm², AWG 10 CN10)	
Tightening Torque	CN8 4.43 lbf.in (0.5 N.m)	
	CN1 6.20 lbf.in (0.7 N.m)	
	CN10 6.20 lbf.in (0.7 N.m)	
Discrete Input Number	4 anahura	
Discrete Input Number	1 capture 2 safety	
	4 logic	
Discrete Input Type	October OAD	
Discrete iliput Type	Capture CAP Logic DI	
	Safety compliment of STO_A, compliment of STO_B	
Sampling Duration	DI 0.25 was dispuste	
Sampling Duration	DI 0.25 ms discrete	
Discrete Input Voltage	24 V DC capture	
	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	
	1 Solution in inegative bij 7 0 v 2 10 v Etrileo 0110172 type 1	
Response Time	<= 5 ms compliment of STO_A, compliment of STO_B	
Discrete Output Number	2	
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		
Contact Bounce Time	<= 1 ms compliment of STO_A, compliment of STO_B 2 μs CAP	
	0.25 μs1.5 ms DI	
Probing Comment		
Braking Current	50 mA	
Response Time On Output	250 μs DO)discrete	
Control Signal Type	Servo motor encoder feedback	
Protection Type	Against reverse polarity inputs signal	
	Against short-circuits outputs signal	
Safety Function	STO (safe torque off), Integrated	
	510 (Sale torque on), integrated	
Safety Level	SIL 3 EN/IEC 61508	
	PL = e ISO 13849-1	
Communication Interface	CANmotion, Integrated	
	CANopen, Integrated	
	Modbus, Integrated	
Connector Type	P. M.5. (Ishalled CNA or CNS) CANmotion	
Connector Type RJ45 (labelled CN4 or CN5) CANmotion RJ45 (labelled CN4 or CN5) CANopen		
	RJ45 (labelled CN7) Modbus	
Method Of Access	Slave	
	Jiave	
Commissioning Port	2-wire RS485 multidrop Modbus	
Transmission Rate	1 Mbps 13.12 ft (4 m) CANopen, CANmotion	
	125 kbps 1640.42 ft (500 m) CANopen, CANmotion	
	250 kbps 820.21 ft (250 m) CANopen, CANmotion	
	50 kbps 3280.84 ft (1000 m) CANopen, CANmotion	
	500 kbps 328.08 ft (100 m) CANopen, CANmotion 9600, 19200, 38400 bps 131.23 ft (40 m) Modbus	
·	,	
Number Of Addresses	1127 CANopen, CANmotion	
	1247 Modbus	

Communication Service	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	
	Display of faults on integrated display terminal Modbus	
	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	
Status Led	1 LED (Red) servo drive voltage	
	1 LED error	
	1 LED RUN	
Signalling Function	Display of faults 7 segments	
Marking	CE	
Operating Position	Vertical +/- 10 degree	
Product Compatibility	Servo motor BMH 5.51 in (140 mm), 2	
	Servo motor BMH 5.51 in (140 mm), 3	
	Servo motor BMH 7.48 in (190 mm), 1	
	Servo motor BMH 7.48 in (190 mm), 2	
	Servo motor BMH 7.48 in (190 mm), 3	
	Servo motor BMH 8.07 in (205 mm), 3	
	Servo motor BSH 5.51 in (140 mm), 2	
	Servo motor BSH 5.51 in (140 mm), 3	
	Servo motor BSH 5.51 in (140 mm), 4	
Width	4.25 in (108 mm)	
Height	10.63 in (270 mm)	
Depth	9.33 in (237 mm)	
Net Weight	10.58 lb(US) (4.8 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	
Product Certifications	CSA TÜV UL	
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	32122 °F (050 °C) UL	
Ambient Air Temperature For Storage	-13158 °F (-2570 °C)	
Type Of Cooling	Integrated fan	
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	3606480216237
Returnability	Yes
Country Of Origin	ID

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	5.59 in (14.2 cm)	
Package 1 Width	10.83 in (27.5 cm)	
Package 1 Length	12.80 in (32.5 cm)	
Package 1 Weight	12.24 lb(US) (5.551 kg)	
Unit Type Of Package 2	S03	
Number Of Units In Package 2	2	
Package 2 Height	11.81 in (30 cm)	
Package 2 Width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Package 2 Weight	25.92 lb(US) (11.757 kg)	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	16	
Package 3 Height	31.50 in (80 cm)	
Package 3 Width	31.50 in (80 cm)	
Package 3 Length	23.62 in (60 cm)	
Package 3 Weight	227.12 lb(US) (103.02 kg)	

Contractual warranty

Warranty 18 months



Green PremiumTM **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-CO₂ 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

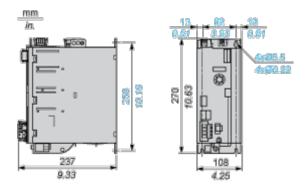
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste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

LXM32AD72N4

Dimensions Drawings

Lexium 32 Servo Drive

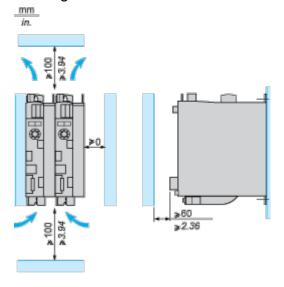
Dimensions



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.

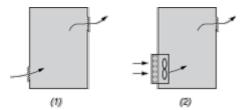
Recommendations for Mounting in an Enclosure

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 data sheet

LXM32AD72N4



- (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.