

LXM32AD30N4

motion servo drive, Lexium 32, 30A, three phase, supply voltage 208 to 480V, 3kW, IP20



Galvenā

Produkta sērija	Lexium 32
Produkta vai sastāvdaļas veids	Motion servo drive
Ierīces īsais nosaukums	LXM32A
Format of the drive	Book
Tīkla fāžu skaits	Trīs fāzes Trīs fāzes
[Us] rated supply voltage	200...240 V - 15...10 % 380...480 V - 15...10 %
Supply voltage limits	170...264 V 323...528 V
Supply frequency	50/60 Hz - 5...5 %
Tīkla frekvence	47.5...63 Hz
EMC filter	Integrated
Continuous output current	10 A 8 kHz
Output current 3s peak	30 A 208 V 5 s 30 A 480 V 5 s
Maximum continuous power	2800 W 208 V 5600 W 400 V 5600 W 480 V
Nominal power	2 KW 208 V 8 kHz 3 KW 400 V 8 kHz 3 kW 480 V 8 kHz
Line current	9,2 A 59 % 208 V, with external line choke 1 mH 11,1 A 77 % 400 V, with external line choke 1 mH 9,6 A 85 % 480 V, with external line choke 1 mH 9,8 A 128 % 208 V, without line choke 8,3 A 148 % 400 V, without line choke 7 A 152 % 480 V, without line choke

Papildinošs

Switching frequency	8 kHz
Pārsprieguma kategorija	III
Maximum leakage current	30 mA
Izvada spriegums	<= power supply voltage
Electrical isolation	Between power and control
Type of cable	Single-strand IEC cable 50 °C) copper 90 °C XLPE/EPR
Electrical connection	Terminal 3 mm ² , AWG 12 CN8) Terminal 5 mm ² , AWG 10 CN1) Terminal 5 mm ² , AWG 10 CN10)
Tightening torque	CN8 0,5 N.m CN1 0,7 N.m CN10 0,7 N.m
Discrete input number	1 capture 2 safety 4 logic
Discrete input type	Capture CAP Logic DI Safety compliment of STO_A, compliment of STO_B
Sampling duration	DI 0,25 ms discrete

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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
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	<= 1 ms compliment of STO_A, compliment of STO_B 2 µs CAP 0.25 µs...1.5 ms DI
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 Pret īssavienojumiem outputs signal
Safety function	STO (safe torque off), integrēta
Safety level	SIL 3 EN/IEC 61508 PL = e ISO 13849-1
Communication interface	CANmotion, integrēta CANopen, integrēta Modbus, integrēta
Connector type	RJ45 (labelled CN4 or CN5) CANmotion RJ45 (labelled CN4 or CN5) CANopen RJ45 (labelled CN7) Modbus
Method of access	Slave
Commissioning port	2-wire RS485 multidrop Modbus
Transmission rate	1 Mbps 4 m CANopen, CANmotion 125 kbps 500 m CANopen, CANmotion 250 kbps 250 m CANopen, CANmotion 50 kbps 1000 m CANopen, CANmotion 500 kbps 100 m CANopen, CANmotion 9600, 19200, 38400 bps 40 m Modbus
Number of addresses	1...127 CANopen, CANmotion 1...247 Modbus
Komunikācijas pakalpojums	1 receive SDO priekš CANmotion 1 transmit SDO priekš CANmotion 2 PDOs conforming to DSP 402 priekš CANmotion 2 SDOs receive priekš CANopen 2 SDOs send priekš CANopen 4 configurable mapping PDOs priekš CANopen CANopen device profile drives and motion control priekš CANopen, CANmotion Display of faults on integrated display terminal priekš Modbus Emergency priekš CANopen, CANmotion Event-triggered, time-triggered, remotely requested, sync (cyclic), sync (acyclic) priekš CANopen Node guarding, heartbeat priekš CANopen Position control mode priekš CANmotion Position control, speed profile, torque profile and homing mode priekš CANopen Sync priekš CANmotion
Statusa gaismas diode	1 LED (sarkans) servo drive voltage 1 LED error 1 LED RUN
Signalling function	Display of faults 7 segments
Marķējums	CE
Operating position	Vertical +/- 10 degree
Product compatibility	Servo motor BMH 100 mm, 3 Servo motor BMH 140 mm, 1 Servo motor BSH 100 mm, 3 Servo motor BSH 100 mm, 4 Servo motor BSH 140 mm, 1
Platums	68 mm
Augstums	270 mm

Dziļums	237 mm
Neto svars	2,6 kg



Vide

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
Standarti	EN/IEC 61800-3 EN/IEC 61800-5-1
Produkta sertifikācija	UL[RETURN]CSA[RETURN]TÜV
IP degree of protection	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1
Vibration resistance	1 gn 13...150 Hz)EN/IEC 60068-2-6 1.5 mm peak to peak 3...13 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	0...50 °C UL
Apkārtējā gaisa temperatūra uzglabāšanai	-25...70 °C
Type of cooling	Integrated fan
Operating altitude	<= 1000 m without derating > 1000...3000 m with conditions

Iepakojšanas vienības

Pirmā iepakojuma vienības tips	PCE
Vienību skaits 1. iepakojumā	1
1. iepakojuma augstums	10,5 cm
1. iepakojuma platums	27,6 cm
1. iepakojuma garums	33 cm
1. iepakojuma svars	3,22 kg
Otrā iepakojuma vienības tips	S03
Vienību skaits 2. iepakojumā	2
2. iepakojuma augstums	30 cm
2. iepakojuma platums	30 cm
2. iepakojuma garums	40 cm
2. iepakojuma svars	7,243 kg
Trešā iepakojuma vienības tips	P06
Vienību skaits 3. iepakojumā	16
3. iepakojuma augstums	80 cm
3. iepakojuma platums	80 cm
3. iepakojuma garums	60 cm
3. iepakojuma svars	65,724 kg

Piedāvājiēt ilgtspēju

Ilgtspējīgs piedāvājuma statuss	Green Premium izstrādājums
REACH regula	 REACH Deklarācija
ES RoHS direktīva	Proaktīva atbilstība (uz izstrādājumu neattiecas ES RoHS juridiskās saistības)
Nesatur dzīvsudrabu	Jā
Ķīnas RoHS regula	 Ķīnas RoHS Deklarācija

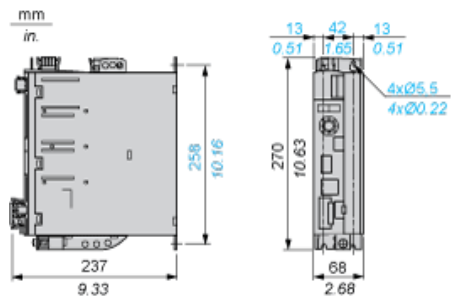
Informācija par RoHS izņēmumiem	Jā
Vides informācijas publicēšana	Produkta Ietekme Uz Vidi
Cirkularitātes profils	Informācija Par Eksploatācijas Izbeigšanu
WEEE	Eiropas Savienības tirgū no šī produkta ir jāatbrīvojas, ievērojot noteiktu atkritumu savākšanas kārtību, un produkts nedrīkst nonākt sadzīves atkritumu tvertnēs.
Nesatur PVH	Jā

Līguma garantija

Garantija	18 months
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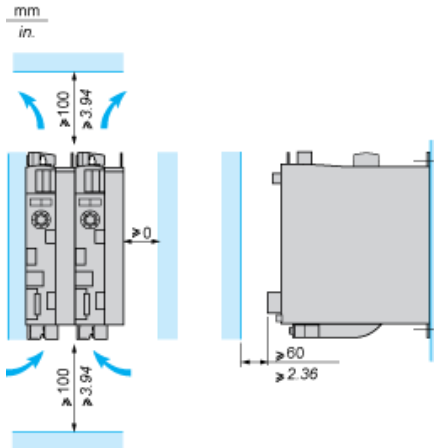
Lexium 32 Servo Drive

Dimensions



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 •D72N4 servo 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 ≥ 200 mm/7.87 in. is required under the unit to comply with the bending radius of the connection cables.

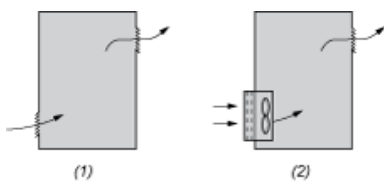
Ambient temperature	Mounting distances	Instructions to be followed
0°C...+ 50°C	$d \geq 0$ mm	–
+ 50°C...+ 60°C	$d \geq 0$ mm	Reduce the output current by 2.2% per °C above 50°C

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.