Product data sheet Characteristics

LXM32CD72N4

motion servo drive - Lexium 32 - three-phase supply voltage 208/480V - 7 kW





Main

Range of product	Lexium 32		
Product or component type	Motion servo drive	,10 ⁰ 10	
Device short name	LXM32C	14/10	
Format of the drive	Book	The state of the s	
Network number of phases	Three phase	Ì	
[Us] rated supply volt- age	200240 V (- 1510 %) 380480 V (- 1510 %)		
Supply voltage limits	170.0 V264.0 V 323.0 V528.0 V		
Supply frequency	50/60 Hz (- 55 %)		
Network frequency	47.563 Hz	21,2	
EMC filter	Integrated		
Continuous output cur- rent	21.9 A (f = 8 kHz)		
Output current 3s peak	72 A for 5 s		
Continuous power	6500 W at 230 V 13000 W at 400 V	. 3000	
Nominal power	5 kW at 230 V (f = 8 kHz) 7 kW at 400 V (f = 8 kHz)	Alan.	
Line current	23.5 A, THDI of 43 % at 380 V, with external line choke of 1 mH 19.5 A, THDI of 55 % at 480 V, with external line choke of 1 mH 14.6 A, THDI of 129 % at 480 V, without line choke 21.9 A, THDI of 124 % at 380 V, without line choke		

Complementary

Switching frequency	8 kHz		
Overvoltage category	III		
Leakage current	>0.0 mA<30.0 mA		
Output voltage	<= power supply voltage		
Electrical isolation	Between power and control		
Type of cable	Single-strand IEC cable (for θ = 50 °C) conductor material: copper 90 °C ,wire insulation material: XLPE/EPR		
Electrical connection	Terminal cable 3 mm² AWG 12 (CN8) Terminal cable 5 mm² AWG 10 (CN1) Terminal cable 5 mm² AWG 10 (CN10)		
Tightening torque	0.5 N.m (CN8) 0.7 N.m (CN1) 0.7 N.m (CN10)		
Discrete input number	2 safety 6 logic		
Discrete input type	Logic (DI) Safety (compliment of STO_A, compliment of STO_B)		
Sampling duration	0.25 ms (ANA1+/ANA1-, ANA2+/ANA2-) for analog 0.25 ms (DI) for discrete		
Discrete input voltage	24 V DC for logic 24 V DC for safety		

1: > 15 V conforming to EN/IEC 61131-2 type 1 Positive (DI) at State 0: > 19 V at State 1: < 9 V conform	Positive (DI) at State 0: > 19 V at State 1: < 9 V conforming to EN/IEC 61131-2		
	type 1 Positive or negative (DI) at State 0: < 5 V at State 1: > 15 V conforming to EN/ IEC 61131-2 type 1		
<= 5 ms (compliment of STO_A, compliment of STO_B)	ζ.		
5 (4)	- 1 ₁ 1 ₁ 1.		
Logic (DO) 24 V DC	1/2		
<= 30 V DC	<u> </u>		
Positive or negative (DO) conforming to EN/IEC 61131-	2 2		
<= 1 ms (compliment of STO_A, compliment of STO_B) 0.25 µs1.5 ms (DI)	"FOLUTE A		
50 mA	3		
2	· 44/6		
250 μs (DO) discrete	27,2		
< +/- 0.5 %			
< +/- 0.1 %	1975		
Analog input (ANA1+/ANA1-, ANA2+/ANA2-), differential impedance: >= 20 Ohm, resolution: 14 bits	al +/- 10 V input		
Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (op kHz) (cable length: 1 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:RS422 (f = <= 10 100 m)	en collector) (f = <= 10 sh-pull) (f = <= 200 kHz)		
Against reverse polarity imputs signal Against short-circuits :outputs signal			
STO (safe torque off), integrated	7 .8		
SIL 3 conforming to EN/IEC 61508 PL = e conforming to ISO 13849-1	nut.		
Integrated Modbus			
RJ45 (labelled CN7) :Modbus	195		
2-wire RS485 multidrop Modbus	314		
9600, 19200, 38400 bps for bus length of <= 40 m Modl	ous		
1247 Modbus	3		
1 LED (red) servo drive voltage	"HI		
Display of faults in 7 segments	777		
CE			
Vertical +/- 10 degree			
Servo motor BMH (140 mm, 2 motor stacks)	Sight.		
Servo motor BMH (190 mm, 2 motor stacks)			
Servo motor BSH (140 mm, 3 motor stacks)			
Servo motor BSH (140 mm, 4 motor stacks)	9		
108 mm	24°		
270 mm	100°C		
237 mm	70.		
4.8 kg	الاي الماري		
72 A	744		
72 A 72 A			
	1: > 15 V conforming to EN/IEC 61131-2 type 1 Positive (DI) at State 0: > 19 V at State 1: < 9 V conform type 1 Positive or negative (DI) at State 0: < 5 V at State 1: > 1 IEC 61131-2 type 1 <= 5 ms (compliment of STO_A, compliment of STO_B) 5 Logic (DO) 24 V DC <= 30 V DC Positive or negative (DO) conforming to EN/IEC 61131- <= 1 ms (compliment of STO_A, compliment of STO_B) 0.25 µs1,5 ms (DI) 50 mA 2 250 µs (DO) discrete <+/-0.1 % Analog input (ANA1+/ANA1-, ANA2+/ANA2-), differentia impedance: >= 20 Ohm, resolution: 14 bits Pulse train output (PTO) :RS422 (f = <= 500 kHz) (cable Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (op kHz) (cable length: 1 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D), A/B, CW/CCW:5 V, 24 V link (pu (cable length: 10 m) Pulse/Direction (P/D),		



Environment

Electromagnetic compatibility	Conducted EMC at class A group 1 conforming to EN 55011		
	Conducted EMC at class A group 2 conforming to EN 55011 Conducted EMC at environment 2 category C3 conforming to EN/IEC 61800-3 Conducted EMC at category C2 conforming to EN/IEC 61800-3 Conducted EMC at environments 1 and 2 conforming to EN/IEC 61800-3 Electrostatic discharge immunity test at level 3 conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields at level 3 conforming to EN/IEC 61000-4-		
	1.2/50 µs shock waves immunity test at level 3 conforming to EN/IEC 61000-4-5 Electrical fast transient/burst immunity test at level 4 conforming to EN/IEC 61000-4-4 Radiated EMC at class A group 2 conforming to EN 55011 Radiated EMC at category C3 conforming to EN/IEC 61800-3		
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1		
Product certifications	CSA RoHS TÜV		
6	UL &		
IP degree of protection	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1		
Vibration resistance	1 gn (f = 13150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f = 313 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	-25.0 °C70.0 °C		
Type of cooling	Integrated fan		
Operating altitude	<= 1000 m without derating > 10003000 m with conditions		

Offer Sustainability

Green Premium product	
Compliant - since 0930 - Schneider Electric declaration of conformity	
Available 🗟 Download Product Environmental	
Available 🔁 Download End Of Life Manual 💆 End Of Life Manual	

RoHS compliance

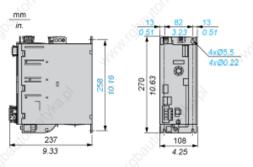
RoHS EUR status	Compliant	100	10/	38
RoHS EUR conformity date(YYWW)	0930	7020	2000	2022

Product data sheet Dimensions Drawings

LXM32CD72N4

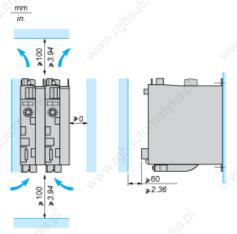
Lexium 32 Servo Drive

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 •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.

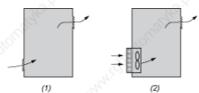
Ambient temperature	Mounting distances	Instructions to be followed
0°C+ 50°C	d ≥ 0 mm	-
+ 50°C+ 60°C	d ≥ 0 mm	Reduce the output current by 2.2% per °C above 50°C

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.



- 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.