



Main

Range of product	Lexium 32
Product or component type	Motion servo drive
Device short name	LXM32S
Format of the drive	Book
Network number of phases	Three phase
[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 %)
Network frequency	47.5...63 Hz
EMC filter	Integrated
Continuous output current	10 A (f = 8 kHz)
Output current 3s peak	30 A for 5 s
Maximum continuous power	2600 W at 230 V
Nominal power	2 kW at 230 V (f = 8 kHz)
Line current	11.6 A, THDI of 74 % at 380 V, with external line choke of 1 mH 9.6 A, THDI of 85 % at 480 V, with external line choke of 1 mH 7 A, THDI of 152 % at 480 V, without line choke

Complementary

Switching frequency	8 kHz
Overvoltage category	III
Leakage current	< 30 mA
Output voltage	<= power supply voltage
Electrical isolation	Between power and control
Type of cable	Single-strand IEC cable (for $\theta = 50$ °C) conductor material: copper 90 °C ,wire insulation material: XLPE/EPR
Electrical connection	Terminal cable 3 mm ² AWG 12 (CN8)
Tightening torque	0.5 N.m (CN8)
Discrete input number	2 capture
Discrete input type	Capture (CAP)
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 (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 (compliment of STO_A, compliment of STO_B)
Braking current	50 mA

Response time on output	250 µs (DO) discrete
Safety function	STO (safe torque off), integrated
Safety level	SIL 3 conforming to EN/IEC 61508
Communication interface	Integrated Modbus Integrated SERCOS III
Type of connector	RJ45 (labelled CN7) :Modbus
Commissioning port	2-wire RS485 multidrop Modbus
Transmission rate	9600, 19200, 38400 bps for bus length of <= 40 m Modbus
Number of addresses	1...247 Modbus
Status LED	1 LED (red) servo drive voltage
Signalling function	Display of faults in 7 segments
Marking	CE
Operating position	Vertical +/- 10 degree
Product compatibility	Servo motor BMH (100 mm, 3 motor stacks)
Width	68 mm
Height	270 mm
Depth	237 mm
Product weight	2.7 kg

Environment

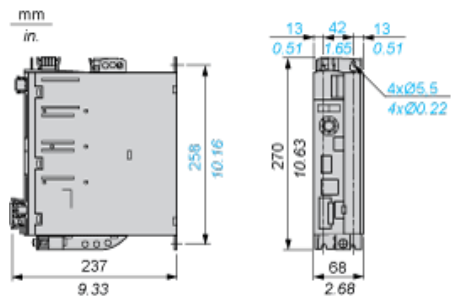
Electromagnetic compatibility	Conducted EMC conforming to EN 55011 class A group 1
Standards	EN/IEC 61800-3
Product certifications	CSA
IP degree of protection	IP20 conforming to EN/IEC 60529
Vibration resistance	1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming 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	0...50 °C conforming to UL
Ambient air temperature for storage	-25...70 °C
Type of cooling	Integrated fan
Operating altitude	<= 1000 m without derating

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1427 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

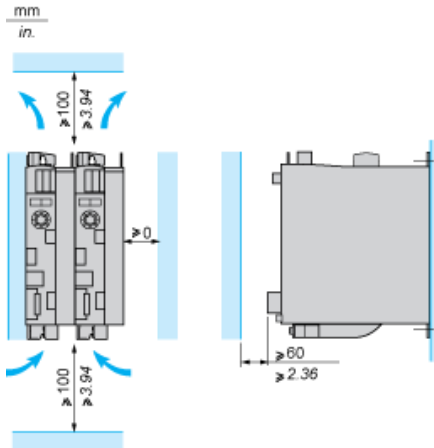
Lexium 32 Servo Drive

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.

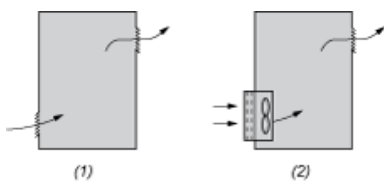
Ambient temperature	Mounting distances	Instructions to be followed
0°C...+ 50°C	$d \geq 0$ mm	–
+ 50°C...+ 60°C	$d \geq 0$ mm	Reduce the output current by 2.2% per °C above 50°C

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.