



## Main

Range of product	Lexium 32
Product or component type	Motion servo drive
Device short name	LXM32M
Format of the drive	Book
Phase	Single phase
[Us] rated supply voltage	100...120 V (- 15...10 %) 200...240 V (- 15...10 %)
Supply voltage limits	170...264 V 85...132 V
Supply frequency	50/60 Hz (- 5...5 %)
Network frequency	47.5...63 Hz
EMC filter	Integrated
Continuous output current	6 A (f = 8 kHz)
Output current 3s peak	10 A at 115 V for 5 s
Continuous power	500 W at 115 V 3300 W at 400 V
Nominal power	0.5 kW at 115 V (f = 8 kHz) 1.8 kW at 400 V (f = 8 kHz)
Line current	8.5 A, THDI of 147 % at 115 V, without line choke 7.2 A, THDI of 88 % at 380 V, with external line choke of 1 mH 6 A, THDI of 98 % at 480 V, with external line choke of 1 mH 6.2 A, THDI of 159 % at 380 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 $\theta = 122$ °F (50 °C)) conductor material: copper 90 ° C , wire insulation material: XLPE/EPR
Electrical connection	Terminal cable 3 mm <sup>2</sup> AWG 12 (PA/+, PBI, PBe) Terminal cable 5 mm <sup>2</sup> AWG 10 (CN1) Terminal cable 5 mm <sup>2</sup> AWG 10 (CN10)
Tightening torque	4.42 lbf.in (0.5 N.m) (PA/+, PBI, PBe) 6.19 lbf.in (0.7 N.m) (CN1) 6.19 lbf.in (0.7 N.m) (CN10)
Discrete input number	2 capture 2 safety 4 logic
Discrete input type	Capture (CAP) Logic (DI) Safety (compliment of STO_A, compliment of STO_B)
Sampling duration	0.25 ms 0.25 ms (DI) 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) at State 0: < 5 V at State 1: > 15 V conforming to EN/IEC 61131-2 type 1 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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) 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 Pulse train output (PTO) RS422 <= 500 kHz 100 m Pulse/direction (P/D), A/B, CW/CCW 5 V, 24 V link (open collector) <= 10 kHz 1 m Pulse/direction (P/D), A/B, CW/CCW 5 V, 24 V link (push-pull) <= 200 kHz 10 m Pulse/direction (P/D), A/B, CW/CCW RS422 <= 1000 kHz 100 m
Protection type	Against reverse polarity :inputs signal Against short-circuits :outputs signal
Safety function	STO (safe torque off), integrated SS1 (safe stop 1), with separated eSM safety card SS2 (safe stop 2), with separated eSM safety card SLS (safe limited speed), with separated eSM safety card SOS (safe operating stop), with separated eSM safety card
Safety level	SIL 3 conforming to EN/IEC 61508 PL = e conforming to ISO 13849-1
Communication interface	Integrated Modbus With separated communication card CANopen With separated communication card CANmotion With separated communication card Ethernet/IP With separated communication card EtherCAT With separated communication card Profibus With separated communication card DeviceNet With separated communication card I/O
Connector type	RJ45 (labelled CN7) :Modbus
Physical interface	2-wire RS485 multidrop Modbus
Transmission rate	9600, 19200, 38400 bps for bus length of <= 131.23 ft (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 (2.76 in (70 mm), 1 motor stacks) Servo motor BMH (2.76 in (70 mm), 3 motor stacks) Servo motor BMH (3.94 in (100 mm), 2 motor stacks) Servo motor BSH (2.76 in (70 mm), 3 motor stacks) Servo motor BSH (3.94 in (100 mm), 1 motor stacks) Servo motor BSH (3.94 in (100 mm), 2 motor stacks)
Width	2.68 in (68 mm)
Height	10.63 in (270 mm)
Depth	9.33 in (237 mm)
Product weight	4.19 lb(US) (1.9 kg)

## 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 61000-4-3 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 UL
IP degree of protection	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1
vibration resistance	1.5 mm peak to peak (f = 3...13 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13...150 Hz) conforming to EN/IEC 60068-2-6
shock resistance	15 gn 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	32...122 °F (0...50 °C) conforming to UL
ambient air temperature for storage	-13...158 °F (-25...70 °C)
type of cooling	Integrated fan
operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.84...9842.52 ft (> 1000...3000 m) with conditions

### Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0930 - Schneider Electric declaration of conformity	Compliant - since 0930 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	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.	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 <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>	For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>

### Contractual warranty

Warranty period	18 months
-----------------	-----------