



Main

Range of product	Lexium 32
Product or component type	Motion servo drive
Device short name	LXM32M
Format of the drive	Book
Network number of phases	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	1.5 A at 8 kHz
Output current 3s peak	3 A at 115 V for 5 s 4.5 A at 230 V for 5 s
Continuous power	150 W at 115 V 500 W at 230 V
Nominal power	0.15 KW at 115 V 8 kHz 0.3 KW at 230 V 8 kHz
Line current	2.6 A 85 % at 115 V, with external line choke of 5 mH 3.4 A 100 % at 230 V, with external line choke of 5 mH 2.9 A 173 % at 115 V, without line choke 2.9 A 181 % at 230 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 (temperature: 50 °C) copper 90 °C XLPE/EPR
Electrical connection	Terminal, clamping capacity: 3 mm², AWG 12 (CN8) Terminal, clamping capacity: 5 mm², AWG 10 (CN1) Terminal, clamping capacity: 5 mm², AWG 10 (CN10)
Tightening torque	CN8: 0.5 N.m CN1: 0.7 N.m CN10: 0.7 N.m
Discrete input number	2 capture discrete input(s) 2 safety discrete input(s) 4 logic discrete input(s)
Discrete input type	Capture (CAP terminals) Logic (DI terminals) Safety (compliment of STO_A, compliment of STO_B terminals)

Sampling duration	DI: 0.25 ms discrete 0.25 Ms
Discrete input voltage	24 V DC for capture 24 V DC for logic 24 V DC for 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 61131-2 type 1
Response time	<= 5 ms compliment of STO_A, compliment of STO_B
Discrete output number	3
Discrete output type	Logic output(s) (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 for compliment of STO_A, compliment of STO_B 2 µs for CAP 0.25 µs...1.5 ms for DI
Braking current	50 MA
Response time on output	250 µs (DO) for discrete output(s)
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	Modbus, integrated 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, with separated communication card
Connector type	RJ45 (labelled CN7) for Modbus
Physical interface	2-wire RS485 multidrop for Modbus
Transmission rate	9600, 19200, 38400 bps for bus length of 40 m for Modbus
Number of addresses	1...247 for Modbus
Status LED	1 LED (red) servo drive voltage:
Signalling function	Display of faults 7 segments
Marking	CE
Operating position	Vertical +/- 10 degree
Product compatibility	Servo motor BSH (55 mm, 1 motor stacks)
Width	68 Mm
Height	270 Mm
Depth	237 Mm
Net weight	1.7 Kg

Environment

Electromagnetic compatibility	<p>Conducted EMC, class A group 1 conforming to EN 55011</p> <p>Conducted EMC, class A group 2 conforming to EN 55011</p> <p>Conducted EMC, environment 2 category C3 conforming to EN/IEC 61800-3</p> <p>Conducted EMC, category C2 conforming to EN/IEC 61800-3</p> <p>Conducted EMC, environments 1 and 2 conforming to EN/IEC 61800-3</p> <p>Electrostatic discharge immunity test, level 3 conforming to EN/IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields, level 3 conforming to EN/IEC 61000-4-3</p> <p>1.2/50 µs shock waves immunity test, level 3 conforming to EN/IEC 61000-4-5</p> <p>Electrical fast transient/burst immunity test, level 4 conforming to EN/IEC 61000-4-4</p> <p>Radiated EMC, class A group 2 conforming to EN 55011</p> <p>Radiated EMC, category C3 conforming to EN/IEC 61800-3</p>
Standards	<p>EN/IEC 61800-5-1</p> <p>EN/IEC 61800-3</p>
Product certifications	<p>CSA</p> <p>UL</p> <p>TÜV</p> <p>RoHS</p>
IP degree of protection	<p>IP20 conforming to EN/IEC 60529</p> <p>IP20 conforming to EN/IEC 61800-5-1</p>
Vibration resistance	<p>1 gn (f= 13...150 Hz) conforming to EN/IEC 60068-2-6</p> <p>1.5 mm peak to peak (f= 3...13 Hz) conforming to EN/IEC 60068-2-6</p>
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	Natural convection
Operating altitude	<p><= 1000 m without</p> <p>> 1000...3000 m with conditions</p>

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**