Product data sheet
Characteristics

LXM32MD18N4
motion servo drive, Lexium 32, 18A, three phase, supply voltage 208 to 480V, 1.8kW



Main

Range of product	Lexium 32
Device short name	LXM32M
Product or component type	Motion servo drive
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	6 A at 8 kHz
Output current 3s peak	18 A at 208 V for 5 s 18 A at 480 V for 5 s
Continuous power	1700 W at 208 V 3300 W at 400 V 3300 W at 480 V
Nominal power	1.2 KW at 208 V 8 kHz 1.8 KW at 400 V 8 kHz 1.8 KW at 480 V 8 kHz
Line current	6 A 78 % at 208 V, with external line choke of 1 mH 6.9 A 90 % at 400 V, with external line choke of 1 mH 6 A 98 % at 480 V, with external line choke of 1 mH 6.2 A 140 % at 208 V, without line choke 5.2 A 161 % at 400 V, without line choke 4.5 A 165 % at 480 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, 12 AWG (CN8) Terminal, clamping capacity: 5 mm², 10 AWG (CN1) Terminal, clamping capacity: 5 mm², 10 AWG (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 conforn 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	1.7 A
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 TCP, 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 Profinet, with separated communication card Analog I/O, with separated communication card Digital I/O, integrated
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 BMH (100 mm, 1 motor stacks) Servo motor BSH (70 mm, 2 motor stacks) Servo motor BMH (70 mm, 3 motor stacks) Servo motor BSH (100 mm, 1 motor stacks) Servo motor BMH (100 mm, 2 motor stacks) Servo motor BSH (100 mm, 2 motor stacks) Servo motor BMH (100 mm, 3 motor stacks) Servo motor BMH (140 mm, 1 motor stacks)
Width	68 Mm
Height	270 Mm
Depth	237 Mm
Net weight	2.1 Kg

Environment

Electromagnetic compatibility	Conducted EMC, class A group 1 conforming to EN 55011 Conducted EMC, class A group 2 conforming to EN 55011 Conducted EMC, environment 2 category C3 conforming to EN/IEC 61800-3 Conducted EMC, category C2 conforming to EN/IEC 61800-3 Conducted EMC, environments 1 and 2 conforming to EN/IEC 61800-3 Electrostatic discharge immunity test, level 3 conforming to EN/IEC 61000-4-2 Susceptibility to electromagnetic fields, level 3 conforming to EN/IEC 61000-4-3 1.2/50 µs shock waves immunity test, level 3 conforming to EN/IEC 61000-4-5 Electrical fast transient/burst immunity test, level 4 conforming to EN/IEC 61000-4-4 Radiated EMC, class A group 2 conforming to EN 55011 Radiated EMC, category C3 conforming to EN/IEC 61800-3
Standards	EN/IEC 61800-3 EN/IEC 61800-5-1
Product certifications	UL[RETURN]TÜV[RETURN]CSA
IP degree of protection	IP20 conforming to EN/IEC 60529 IP20 conforming to EN/IEC 61800-5-1
Vibration resistance	1 gn (f= 13…150 Hz) conforming to EN/IEC 60068-2-6 1.5 mm peak to peak (f= 3…13 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 > 1000...3000 m with conditions

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.600 Cm
Package 1 Width	27.500 Cm
Package 1 Length	33.000 Cm
Package 1 Weight	2.600 Kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	5.948 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	75.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	56.348 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	25 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	20.36389652836151
Carbon footprint of the manufacturing phase [A1 to A3]	20 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	3.8405330570155116
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	0

Carbon footprint of the use phase [B2, B3, B4, B6]	0 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3752468884276968
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Total lifecycle Carbon footprint	25
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	C0961927-b9e6-4f64-bd63-334df07b6de6
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised