

# LXM32SU90M2

motion servo drive, Lexium 32, 3A, single phase, supply voltage 115 to 230V, 0.3 to 0.5kW

## Main

Range of product	Lexium 32
Device short name	LXM32S
Product or component type	Motion servo drive
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	85...132 V 170...264 V
Supply frequency	50/60 Hz - 5...5 %
Network frequency	47.5...63 Hz
EMC filter	Integrated
Continuous output current	3 A at 8 kHz
Output current 3s peak	6 A at 115 V for 5 s 9 A at 230 V for 5 s
Maximum continuous power	400 W at 115 V 900 W at 230 V
Nominal power	0.3 KW at 115 V 8 kHz 0.5 kW at 230 V 8 kHz
Line current	5.2 A 90 % at 115 V, with external line choke of 2 mH 6.3 A 107 % at 230 V, with external line choke of 2 mH 5.4 A 159 % at 115 V, without line choke 4.5 A 166 % 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)
Tightening torque	CN8: 0.5 N.m
Discrete input number	2 capture discrete input(s)
Discrete input type	Capture (CAP terminals)
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 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

Braking current	50 mA
Response time on output	250 µs (DO) for discrete output(s)
Safety function	STO (safe torque off), integrated
Safety level	SIL 3 conforming to EN/IEC 61508
Communication interface	Modbus, integrated SERCOS III, integrated
Connector type	RJ45 (labelled CN7) for Modbus
Commissioning port	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 BMH (70 mm, 1 motor stacks)
Width	68 mm
Height	270 mm
Depth	237 mm
Net weight	1.8 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	Natural convection
Operating altitude	<= 1000 m without derating

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.6 cm
Package 1 Width	27.5 cm
Package 1 Length	33 cm
Package 1 Weight	2.37 kg
Unit Type of Package 2	S03
Number of Units in Package 2	2
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	5.529 kg
Unit Type of Package 3	P06
Number of Units in Package 3	16
Package 3 Height	80 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	52.124 kg

## Offer Sustainability

Packaging without single use plastic	No
Packaging made with recycled cardboard	Yes
SCIP Number	C0961927-b9e6-4f64-bd63-334df07b6de6
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
Take-back	No
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	796

## Contractual warranty

Warranty	18 months
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