Product data sheet
Characteristics

LXM32SD72N4
motion servo drive, Lexium 32, 24A, three phase, supply voltage 208 to 480V, 7kW



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	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	24 A at 8 kHz
Output current 3s peak	72 A at 208 V for 5 s 72 A at 480 V for 5 s
Continuous power	6500 W at 208 V 13000 W at 400 V 13000 W at 480 V
Nominal power	5 KW at 208 V 8 kHz 7 KW at 400 V 8 kHz 7 KW at 480 V 8 kHz
Line current	21.1 A 34 % at 208 V, with external line choke of 1 mH 22.5 A 45 % at 400 V, with external line choke of 1 mH 19.5 A 55 % at 480 V, with external line choke of 1 mH 21.9 A 106 % at 208 V, without line choke 17.3 A 126 % at 400 V, without line choke 14.6 A 129 % 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)
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 conform
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	SERCOS III, 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 (140 mm, 2 motor stacks)
Width	108 Mm
Height	270 Mm
Depth	237 Mm
Net weight	4.8 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	Integrated fan
Operating altitude	<= 1000 m without derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.1 Cm
Package 1 Width	27.6 Cm
Package 1 Length	32.5 Cm
Package 1 Weight	5.634 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	12.012 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	104.348 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	53 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	44.12699732338029
Carbon footprint of the manufacturing phase [A1 to A3]	44 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	8.322139708932843
Carbon footprint of the distribution phase [A4]	8 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]	0.8131311420775552
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.
Total lifecycle Carbon footprint	53
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, w
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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised