

LXM32AD30M2

motion servo drive - Lexium 32 - single phase
supply voltage 115/230V -0.8/1.6kW

Product availability : Stock - Normally stocked in distribution facility



Price* : 1509.16 USD



Main

Range of product	Lexium 32
Product or component type	Motion servo drive
Device short name	LXM32A
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	10 A (f = 8 kHz)
Output current 3s peak	15 A at 115 V for 5 s 30 A at 230 V for 5 s
Continuous power	800 W at 115 V 2200 W at 230 V
Nominal power	0.8 kW at 115 V (f = 8 kHz) 1.6 kW at 230 V (f = 8 kHz)
Line current	12.9 A, THDI of 135 % at 115 V, without line choke 12.7 A, THDI of 135 % at 230 V, without line choke 9.9 A, THDI of 72 % at 115 V, with external line choke of 2 mH 14.1 A, THDI of 86 % at 230 V, with external line choke of 2 mH

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 $\theta = 122\text{ }^{\circ}\text{F}$ ($50\text{ }^{\circ}\text{C}$)) conductor material: copper $90\text{ }^{\circ}\text{C}$,wire insulation material: XLPE/EPR
Electrical connection	Terminal cable 3 mm ² AWG 12 (CN8) Terminal cable 5 mm ² AWG 10 (CN1) Terminal cable 5 mm ² AWG 10 (CN10)
Tightening torque	4.42 lbf.in (0.5 N.m) (CN8) 6.19 lbf.in (0.7 N.m) (CN1) 6.19 lbf.in (0.7 N.m) (CN10)
Discrete input number	1 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 (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 61131-2 type 1
Response time	<= 5 ms (compliment of STO_A, compliment of STO_B)
Discrete output number	2
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
Protection type	Against reverse polarity :inputs signal Against short-circuits :outputs signal
Safety function	STO (safe torque off), integrated
Safety level	SIL 3 conforming to EN/IEC 61508 PL = e conforming to ISO 13849-1
Communication interface	Integrated CANopen Integrated Modbus Integrated CANmotion
Type of connector	RJ45 (labelled CN4 or CN5) :CANmotion RJ45 (labelled CN4 or CN5) :CANopen RJ45 (labelled CN7) :Modbus
Method of access	Slave
Physical interface	2-wire RS485 multidrop Modbus
Transmission rate	1 Mbps for bus length of <= 13.12 ft (4 m) CANopen, CANmotion 125 kbps for bus length of <= 1640.42 ft (500 m) CANopen, CANmotion 250 kbps for bus length of <= 820.21 ft (250 m) CANopen, CANmotion 50 kbps for bus length of <= 3280.84 ft (1000 m) CANopen, CANmotion 500 kbps for bus length of <= 328.08 ft (100 m) CANopen, CANmotion 9600, 19200, 38400 bps for bus length of <= 131.23 ft (40 m) Modbus
Number of addresses	1...247 Modbus 1...127 CANopen, CANmotion
Communication service	1 receive SDO CANmotion 1 transmit SDO CANmotion 2 PDOs conforming to DSP 402 CANmotion 2 SDOs receive CANopen 2 SDOs send CANopen 4 configurable mapping PDOs CANopen CANopen device profile drives and motion control CANopen, CANmotion

	Display of faults on integrated display terminal Modbus Emergency CANopen, CANmotion Event-triggered, time-triggered, remotely requested, sync (cyclic), sync (acyclic) CANopen Node guarding, heartbeat CANopen Position control mode CANmotion Position control, speed profile, torque profile and homing mode CANopen Sync CANmotion
Status LED	1 LED (red) servo drive voltage 1 LED error 1 LED RUN
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), 2 motor stacks) Servo motor BMH (2.76 in (70 mm), 3 motor stacks) Servo motor BMH (3.94 in (100 mm), 1 motor stacks) Servo motor BMH (3.94 in (100 mm), 2 motor stacks) Servo motor BMH (3.94 in (100 mm), 3 motor stacks) Servo motor BMH (5.51 in (140 mm), 1 motor stacks) Servo motor BSH (2.76 in (70 mm), 2 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	4.41 lb(US) (2 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

Ordering and shipping details

Category	18261 - LEXIUM 32 SERVO DRIVES II
Discount Schedule	PC51

GTIN	00785901672692
Nbr. of units in pkg.	1
Package weight(Lbs)	5.29
Returnability	N
Country of origin	ID

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0930 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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