

motion servo drive, Lexium 28, sercos, single and three phase 200...230 V, 1.5 kW

LXM28SU15M3X

EAN Code: 3606489934378

Main

Range of product	Lexium 28
Device short name	LXM28S
Product or component type	Motion servo drive
Format of the drive	Compact housing
Line current	10 A 166.6 % at 220 V, single phase 10 A 144.8 % at 220 V, three phase

Complementary

Network number of phases	Three phase Single phase	
[Us] rated supply voltage	200240 V (- 1015 %) for three phase 200240 V (- 2015 %) for single phase	
Supply voltage limits	200255 V three phase 170255 V single phase	
Supply frequency	50/60 Hz - 55 %	
Network frequency	47.563 Hz	
EMC filter	Without EMC filter	
Continuous output current	7 A at 16 kHz	
Output current 3s peak	21 A at 220 V	
Continuous power	1500 W at 220 V	
Nominal power	1.5 kW at 220 V 16 kHz	
Switching frequency	16 kHz	
Overvoltage category	III	
Maximum leakage current	4.5 mA	
Output voltage	<= power supply voltage	
Electrical isolation	Between power and control	
Type of cable	Shielded motor cable (temperature: 055 °C) copper	
Electrical connection	Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (L1-L2) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (R, S, T) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (U, V, W, PE) Spring terminal, clamping capacity: 1.31.5 mm², AWG 16 (PA/+, PBe)	
Discrete input number	8 programmable (CN1) 2 fast capture (CN1) 1 safety function STO (CN9)	
Discrete input voltage	24 V DC for logic	
Discrete input logic	Positive or negative (CN1)	

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Discrete output number	4 logic output (CN1) at 1224 V DC 1 pulse train output (PTO) (CN1)
Discrete output voltage	1224 V DC
Discrete output logic	Positive or negative (CN1)
Control signal type	Servo motor encoder feedback CN2
Protection type	Against reverse polarity: inputs signal Against short-circuits: outputs signal Overcurrent: motor Overvoltage: motor Undervoltage: motor Overheating: motor Overload: motor Overspeed: motor
Safety function	STO (safe torque off), integrated
Safety level	SIL 2 conforming to IEC 61800-5-2: 2007 SIL 2 conforming to IEC 61508-1: 2010 PL d/category 3 conforming to ISO 13849-1: 2008 SIL 2 conforming to ISO 13849-1: 2009/AC SIL 2 conforming to IEC 60204-1: 2006 SIL 2 conforming to IEC 60204-1: 2009/A1 SIL 2 conforming to IEC 60204-1: 2010/AC SIL 2 conforming to IEC 60204-1: 2010/AC SIL 2 conforming to IEC 62061: 2012
Communication interface	Modbus, integrated SERCOS III, integrated
Connector type	RJ45 (CN3) RJ45 (CN4)
Method of access	Slave
Transmission rate	9600 bauds115200 bauds (automatic detection) for bus length of 100 m
Status LED	1 LED (red) charge 1 LED (green) RUN 1 LED (red) error
Signalling function	Servo status and fault codes five 7-segment display units
Marking	CULus CSA CE
type of cooling	Integrated fan
Operating position	Vertical
Product compatibility	Servo motor BCH2 (130 mm, 3 motor stacks) at 1500 W
Width	55 mm
Height	150 mm
Depth	170 mm
Net weight	1.2 kg
Supply voltage description	Single phase 220 V AC 5060 Hz Three phase 220 V AC 5060 Hz
Network number of phases	1 3
Drive voltage drop coefficient	1
Field weakening	False
Continuous output current 2	7 A
Output current 3s peak 2	21 A at 220 V
Switching frequency 2	16 kHz
Continuous output current 3	7 A

Output current 3s peak 3	21 A at 220 V
Switching frequency 3	16 kHz
Communication interface	Pulse train output SERCOS III
Emc filter compatibility	Type 022 Type 021

Environment

Electromagnetic compatibility	Conducted emission - test level: level 3 category C3 conforming to IEC 61800-3	
Standards	IEC 61800-5-1	
Product certifications	CSA cULus CE	
IP degree of protection	IP20	
Vibration resistance	3M4 amplitude = 3 mm (f = 9200 Hz) conforming to IEC 60721-3-3	
Shock resistance	10 gn, type I conforming to IEC 60721-3-3	
Relative humidity	595 % without condensation	
Ambient air temperature for operation	055 °C	
Ambient air temperature for storage	-2565 °C	
Operating altitude	<= 1000 m without derating > 10002000 m 1 % per 100 m	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	23.0 cm
Package 1 Length	23.5 cm
Package 1 Weight	1.488 kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.035 kg

Contractual warranty

Warranty	18 months
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Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	3033
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

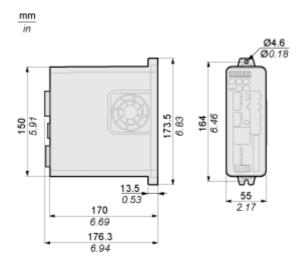
Product datasheet

LXM28SU15M3X

Dimensions Drawings

Dimensions

Dimensions of Drive



LXM28SU15M3X

Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm

