Product datasheet

Specification





motion servo drive, Lexium 28, single and three phase, 200 to 240V, 1.5kW

LXM28AU15M3X

Main

Range Of Product	Lexium 28
Product Or Component Type	Motion servo drive
Device Short Name	LXM28A
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

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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) 1 pulse train input (PTI) (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)
Discrete Output Number	5 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)
Analogue Input Number	2
Absolute Accuracy Error	0.1 %
Analogue Input Type	V_REF voltage analog input: - 1010 V, impedance: 10 kOhm, resolution: 14 bits T_REF voltage analog input
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	CANopen, integrated CANmotion, integrated
Connector Type	RJ45 (CN4) for CANopen, CANmotion
Method Of Access	Slave
Transmission Rate	250 kbit/s for bus length of 100250 m for CANopen, CANmotion 500 kbit/s for bus length of 4100 m for CANopen, CANmotion 1 Mbit/s for bus length of 4 m for CANopen, CANmotion
Number Of Addresses	1127 for CANopen, CANmotion
Physical Interface	RS485 for Modbus Serial line slave
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
Output Current 3S Peak 2	21 A at 220 V
Output Current 3S Peak 3	21 A at 220 V

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	7.621 cm
Package 1 Width	22.955 cm
Package 1 Length	23.731 cm
Package 1 Weight	1.49 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.974 kg



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Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

Circularity Profile	End of Life Information
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

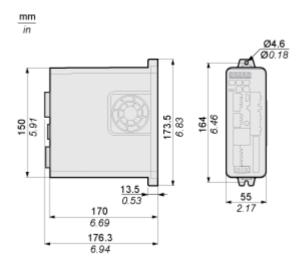
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Dimensions Drawings

Dimensions

Dimensions of Drive



LXM28AU15M3X

Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm

