Product datasheet

Specifications





motion servo drive - Lexium 28 - three phase 200...230 V - 4.5 kW

LXM28AU45M3X

! Discontinued on: Aug 27, 2020

① Discontinued

Main

Range of product	Lexium 28	
Device short name	LXM28A	
Product or component type	Motion servo drive	
Format of the drive	Compact housing	
Line current	17.9 A 147.1 % at 220 V, three phase	

Complementary

Network number of phases	Three phase	
[Us] rated supply voltage	200240 V (- 1015 %) for three phase	
Supply voltage limits	200255 V three phase	
Supply frequency	50/60 Hz - 55 %	
network frequency	47.563 Hz	
EMC filter	Without EMC filter	
Continuous output current	22.9 A at 8 kHz	
Output current 3s peak	61 A at 220 V	
Continuous power	4500 W at 220 V	
Nominal power	4.5 kW at 220 V 8 kHz	
switching frequency	8 kHz	
Overvoltage category	III	
Maximum leakage current	1.55 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: 6 mm², AWG 10 (L1-L2) Spring terminal, clamping capacity: 6 mm², AWG 10 (R, S, T) Spring terminal, clamping capacity: 6 mm², AWG 10 (U, V, W, PE) Spring terminal, clamping capacity: 6 mm², AWG 10 (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 (180 mm, 3 motor stacks) at 4500 W Servo motor BCH2 (180 mm, 2 motor stacks) at 3500 W
Width	116 mm
Height	234 mm
Depth	186 mm
Net weight	3.2 kg
Output current 3s peak 2	61 A at 220 V
Output current 3s peak 3	61 A at 220 V

Environment

Electromagnetic compatibility	Conducted emission - test level: level 3 category C3 conforming to IEC 61800-	
Standards	IEC 61800-5-1	
Product certifications	cULus	
	CSA	
	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	19.6 cm
Package 1 Width	25.8 cm
Package 1 Length	34.7 cm
Package 1 Weight	4.988 kg



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Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

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

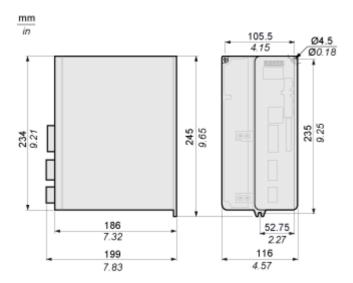
Product datasheet

LXM28AU45M3X

Dimensions Drawings

Dimensions

Dimensions of Drive



LXM28AU45M3X

Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm ŵa

