Product datasheet

Specifications

motion servo drive, Lexium 28, single and three phase, 200 to 240V, 400W

LXM28AU04M3X

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	3.8 A 211.6 % at 220 V, single phase 3.8 A 183.7 % at 220 V, three phase

Complementary

Network number of phases	Three phase Single phase
[Us] rated supply voltage	200...240 V (- 10...15 %) for three phase 200...240 V (- 20...15 %) for single phase
Supply voltage limits	200…255 V three phase 170…255 V single phase
Supply frequency	50/60 Hz - 5...5 %
Network frequency	47.5...63 Hz
EMC filter	Without EMC filter
Continuous output current	2.6 A at 16 kHz
Output current 3s peak	7.8 A at 220 V
Continuous power	400 W at 220 V
Nominal power	0.4 kW at 220 V 16 kHz
Switching frequency	16 kHz
Overvoltage category	III
Maximum leakage current	1.3 mA
Output voltage	<= power supply voltage
Electrical isolation	Between power and control
Type of cable	Shielded motor cable (temperature: 0…55 °C) copper
Electrical connection	Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (L1-L2) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.82...1 mm², AWG 18 (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 12...24 V DC 1 pulse train output (PTO) (CN1)
Discrete output voltage	12...24 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: - 10...10 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 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 100…250 m for CANopen, CANmotion 500 kbit/s for bus length of 4…100 m for CANopen, CANmotion 1 Mbit/s for bus length of 4 m for CANopen, CANmotion
Number of addresses	1…127 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	CSA CE CULus
type of cooling	Natural convection
Operating position	Vertical
Product compatibility	Servo motor BCH2 (60 mm, 2 motor stacks) at 400 W Servo motor BCH2 (80 mm, 1 motor stacks) at 400 W Servo motor BCH2 (130 mm, 1 motor stacks) at 300 W
Width	55 mm
Height	150 mm
Depth	146 mm
Product weight	1 kg

Supply voltage description	Three phase 220 V AC 50...60 Hz Single phase 220 V AC 50...60 Hz
Network number of phases	1 3
Drive voltage drop coefficient	1
Field weakening	False
Continuous output current 2	2.6 A
Output current 3s peak 2	7.8 A at 220 V
Switching frequency 2	16 kHz
Continuous output current 3	2.6 A
Output current 3s peak 3	7.8 A at 220 V
Switching frequency 3	16 kHz
communication interface	Pulse train input CANmotion Pulse train output CANopen DS402
Emc filter compatibility	Type 022 Type 020

Environment

Electromagnetic compatibility	Conducted emission - test level: level 3 category C3 conforming to IEC 61800-3
Standards	IEC 61800-5-1
Product certifications	cULus CSA CE
IP degree of protection	IP20
Vibration resistance	3M4 amplitude = 3 mm (f = 9…200 Hz) conforming to IEC 60721-3-3
Shock resistance	10 gn, type I conforming to IEC 60721-3-3
Relative humidity	5…95 % without condensation
Ambient air temperature for operation	0…55 °C
Ambient air temperature for storage	-25…65 °C
Operating altitude	<= 1000 m without derating > 1000...2000 m 1 % per 100 m

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.300 cm
Package 1 Width	23.000 cm
Package 1 Length	23.600 cm
Package 1 Weight	1.316 kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.000 cm
Package 2 Width	30.000 cm

Package 2 Length	40.000 cm
Package 2 Weight	7.000 kg
Unit Type of Package 3	P06
Number of Units in Package 3	40
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	64.000 kg

Environmental Data

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)	**967**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

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

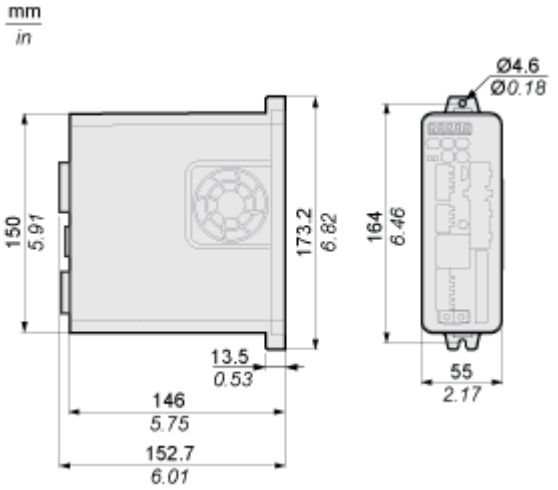
Repack and remanufacture

Circularity Profile	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Dimensions

Dimensions of Drive



Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation