Product data sheet

Specifications



Lexium28 EtherCAT drive, 200W, 1/3 phase 230V

LXM28EU02M3X

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Range of Product	Lexium 28
Device short name	LXM28E
Product or Component Type	Motion servo drive
Format of the drive	Compact housing
Line current	2.4 A 226.8 % 220 V, single phase 2.4 A 200.7 % 220 V, three phase

Complementary

Phase	Three phase Single phase
[Us] rated supply voltage	200...240 V - 10...15 %)three phase 200...240 V - 20...15 %)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	1.5 A 16 kHz
Output current 3s peak	4.5 A 220 V
Continuous power	200 W 220 V
Nominal power	0.2 kW 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 32…131 °F (0…55 °C)) copper
Electrical connection	Spring terminal 0.82...1 mm², AWG 18 L1-L2) Spring terminal 0.82...1 mm², AWG 18 R, S, T) Spring terminal 0.82...1 mm², AWG 18 U, V, W, PE) Spring terminal 0.82...1 mm², AWG 18 PA/+, PBe)
Discrete input number	8 programmable CN1) 2 fast capture CN1) 1 safety function STO CN9)
Discrete input voltage	24 V DC logic
Discrete input logic	Positive or negative CN1)

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Discrete output number	5 logic output CN1)12...24 V DC 1 pulse train output (PTO) CN1)
Discrete output voltage	12...24 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 IEC 61800-5-2 2007 SIL 2 IEC 61508-1 2010 PL d/category 3 ISO 13849-1 2008 SIL 2 ISO 13849-1 2009/AC SIL 2 IEC 60204-1 2006 SIL 2 IEC 60204-1 2009/A1 SIL 2 IEC 60204-1 2010/AC SIL 2 IEC 62061 2012
Communication interface	EtherCAT, Integrated
Connector type	RJ45 CN4)EtherCAT
Method of access	Slave
Transmission rate	100 Mbit/s EtherCAT
Physical interface	RS485 Modbus Serial line slave
Status LED	1 LED (Red) DC bus energized 1 LED (multi-colour) N.RUN 1 LED (multi-colour) N.ERR 2 LEDs (Yellow) Link (Link Status) 2 LEDs (Yellow) activity
Signalling function	Servo status and fault codes five 7-segment display units
Marking	CE CULus
Type of cooling	Natural convection
Operating position	Vertical
Product compatibility	Servo motor BCH2 2.4 in (60 mm), 1 200 W
Width	2.2 in (55 mm)
Height	5.9 in (150 mm)
Depth	5.7 in (146 mm)
Product Weight	2.2 lb(US) (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	3 1
Drive voltage drop coefficient	1
Field weakening	False
Continuous output current 2	1.5 A
Switching frequency 2	16 kHz
Continuous output current 3	1.5 A

Switching frequency 3	16 kHz
Communication iinterface	Pulse train output EtherCAT
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	CE cULus
IP degree of protection	IP20
Vibration resistance	3M4 3 mm 9…200 Hz)IEC 60721-3-3
Shock resistance	10 gn, type I IEC 60721-3-3
Relative humidity	5…95 % without condensation
Ambient Air Temperature for Operation	32…131 °F (0…55 °C)
Ambient Air Temperature for Storage	-13…149 °F (-25…65 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating > 3280.84...6561.68 ft (> 1000...2000 m) 1 % per 100 m

Ordering and shipping details

Category	US1PC5118262
Discount Schedule	PC51
GTIN	3606481167262
Returnability	No
Country of origin	CN

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.953 in (7.500 cm)
Package 1 Width	9.055 in (23.000 cm)
Package 1 Length	9.331 in (23.700 cm)
Package weight(Lbs)	2.842 lb(US) (1.289 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	15.543 lb(US) (7.050 kg)

Contractual warranty

Warranty (in months)	18

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

Total lifecycle Carbon footprint	**720 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**22 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**697 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.6 kg CO2 eq.**
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	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
California proposition 65	**WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov**
PVC free	**Yes**

Use Longer

Lifetime extension

Repair	**No**

Use Again

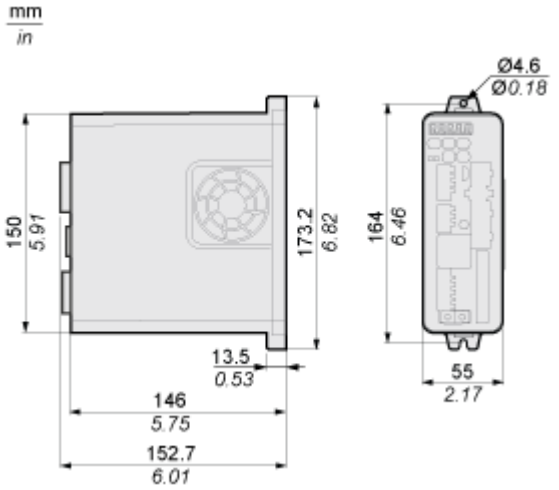
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**

Dimensions Drawings

Dimensions

Dimensions of Drive



Mounting and Clearance

Mounting Clearance

Mounting Distances and Air Circulation

mm
in.

