



**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	8.5 A 176.3 % at 220 V, single phase 8.5 A 155.5 % at 220 V, three phase

**Complementary**

Network number of phases	Single or three phases
[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	7 A at 16 kHz
Output current 3s peak	21 A at 220 V
Continuous power	1000 W at 220 V
Nominal power	1 kW at 220 V 16 kHz
Switching frequency	16 kHz
Oversupply 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: 0...55 °C) copper
Electrical connection	Spring terminal, clamping capacity: 1.3...1.5 mm <sup>2</sup> , AWG 16 (L1-L2) Spring terminal, clamping capacity: 1.3...1.5 mm <sup>2</sup> , AWG 16 (R, S, T) Spring terminal, clamping capacity: 1.3...1.5 mm <sup>2</sup> , AWG 16 (U, V, W, PE) Spring terminal, clamping capacity: 1.3...1.5 mm <sup>2</sup> , 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)
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)
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	EtherCAT, integrated
Connector type	RJ45 (CN4) for EtherCAT
Method of access	Slave
Transmission rate	100 Mbit/s for EtherCAT
Physical interface	RS485 for 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 (green) 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	Fan
Operating position	Vertical
Product compatibility	Servo motor BCH2 (130 mm, 1 motor stacks) at 1000 W Servo motor (100 mm, 1 motor stacks) at 1000 W Servo motor (130 mm, 2 motor stacks) at 900 W Servo motor (130 mm, 4 motor stacks) at 850 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	cULus[RETURN]CE[RETURN]CSA
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	23.0 cm
Package 1 Width	23.7 cm
Package 1 Length	7.5 cm

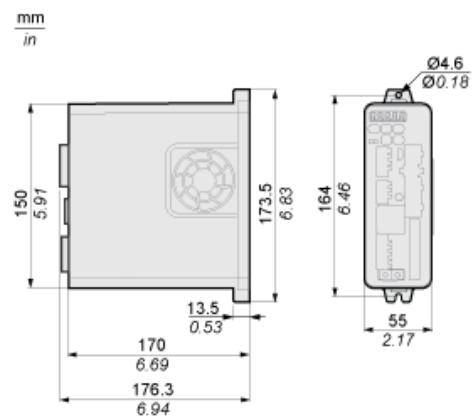
Package 1 Weight	1.43 kg
Unit Type of Package 2	S03
Number of Units in Package 2	5
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.74 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	 <a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

## Dimensions

### Dimensions of Drive



## Mounting Clearance

### Mounting Distances and Air Circulation

