



## 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	6 A, THDI of 160.6 % at 220 V, three phase 6 A, THDI of 181.8 % at 220 V, single phase

## Complementary

Network number of phases	Single phase Three phase
[Us] rated supply voltage	220 V (- 20...15 %) for single phase 220 V (- 10...15 %) for three phase
Supply voltage limits	170...255 V for single phase 200...255 V for three phase
Supply frequency	50/60 Hz (- 5...5 %)
Network frequency	47.5...63 Hz
EMC filter	Without EMC filter
Continuous output current	4.5 A at 16 kHz
Output current 3s peak	13.5 A at 220 V
Continuous power	750 W at 220 V
Nominal power	0.75 kW at 220 V, 16 kHz
Switching frequency	16 kHz
Overvoltage category	III
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 mm <sup>2</sup> , AWG 18 (PA/+, PBe) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.82...1 mm <sup>2</sup> , AWG 18 (L1-L2)
Discrete input number	1 safety function STO (CN9) 2 fast capture (CN1) 1 pulse train input (PTI) (CN1) 8 programmable (CN1)
Discrete input voltage	24 V DC (logic)
Discrete input logic	Positive or negative (CN1)
Discrete output number	1 pulse train output (PTO) (CN1) 5 logic output (CN1) at 12...24 V DC
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	Voltage analog input (T_REF) Voltage analog input (V_REF), - 10...10 V input impedance: 10 kOhm, resolution: 14 bits

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Control signal type	CN2 : servo motor encoder feedback
Protection type	Overspeed (motor) Overload (motor) Overheating (motor) Undervoltage (motor) Overvoltage (motor) Overcurrent (motor) Against short-circuits (outputs signal) Against reverse polarity (inputs signal)
Safety function	STO (safe torque off), integrated
Safety level	SIL 2 conforming to IEC 62061 : 2012 SIL 2 conforming to EN 60204-1 : 2010/AC SIL 2 conforming to EN 60204-1 : 2009/A1 SIL 2 conforming to EN 60204-1 : 2006 SIL 2 conforming to EN/ISO 13849-1 : 2009/AC PL d/category 3 conforming to EN/ISO 13849-1 : 2008 SIL 2 conforming to IEC 61508-1 : 2010 SIL 2 conforming to IEC 61800-5-2 : 2007
Communication interface	CANmotion, integrated CANopen, integrated
Type of connector	RJ45 (CN4) for CANopen, CANmotion
Method of access	Slave
Transmission rate	1 Mbit/s for bus length of ≤ 4 m for CANopen, CANmotion 500 kbit/s for bus length of 4...100 m for CANopen, CANmotion 250 kbit/s for bus length of 100...250 m for CANopen, CANmotion
Number of addresses	1...127 for CANopen, CANmotion
Physical interface	RS485 (Modbus Serial line slave)
Status LED	1 LED red for error 1 LED green for RUN 1 LED red for charge
Signalling function	Servo status and fault codes on five 7-segment display units
Marking	CE CSA CULus
Type of cooling	Integrated fan
Operating position	Vertical
Product compatibility	Servo motor BCH2 (130 mm, 1 motor stacks) at 600 kW Servo motor BCH2 (80 mm, 2 motor stacks) at 750 kW Servo motor BCH2 (130 mm, 1 motor stacks) at 500 kW
Width	55 mm
Height	150 mm
Depth	146 mm
Product weight	1.3 kg
Output current 3s peak 2	13.5 A 220 V
Output current 3s peak 3	13.5 A 220 V

## Environment

Electromagnetic compatibility	Conducted emission (test level: level 3, category C3) conforming to EN/IEC 61800-3
Standards	EN/IEC 61800-5-1
Product certifications	CE CSA CULus
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...2000 m ( 1 % per 100 m derating ) <= 1000 m ( without derating )

## Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1442 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Available <a href="#">Download End Of Life Manual</a>