



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	3.8 A, THDI of 183.7 % at 220 V, three phase 3.8 A, THDI of 211.6 % 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	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
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 ² , AWG 18 (PA/+, PBe) Spring terminal, clamping capacity: 0.82...1 mm ² , AWG 18 (U, V, W, PE) Spring terminal, clamping capacity: 0.82...1 mm ² , AWG 18 (R, S, T) Spring terminal, clamping capacity: 0.82...1 mm ² , 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	Natural convection
Operating position	Vertical
Product compatibility	Servo motor BCH2 (130 mm, 1 motor stacks) at 300 kW Servo motor BCH2 (80 mm, 1 motor stacks) at 400 kW Servo motor BCH2 (60 mm, 2 motor stacks) at 400 kW
Width	55 mm
Height	150 mm
Depth	146 mm
Product weight	1.3 kg
Output current 3s peak 2	7.8 A 220 V
Output current 3s peak 3	7.8 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 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual