



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	10 A, THDI of 144.8 % at 220 V, three phase 10 A, THDI of 166.6 % at 220 V, single phase

Complementary

Network number of phases	Three phase Single phase
[Us] rated supply voltage	220 V (- 10...15 %) for three phase 220 V (- 20...15 %) for single 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	7 A at 16 kHz
Output current 3s peak	21 A at 220 V
Continuous power	1500 W at 220 V
Nominal power	1.5 kW at 220 V, 16 kHz
Switching frequency	16 kHz
Overvoltage category	III
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 ² , AWG 16 (L1-L2) Spring terminal, clamping capacity: 1.3...1.5 mm ² , AWG 16 (R, S, T)

Spring terminal, clamping capacity: 1.3...1.5 mm², AWG 16 (U, V, W, PE)
 Spring terminal, clamping capacity: 1.3...1.5 mm², AWG 16 (PA/+, PBe)

Discrete input number	8 programmable (CN1) 2 fast capture (CN1) 1 safety function STO (CN9) 1 pulse train input (PTI) (CN1)
Discrete input voltage	24 V DC (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	Voltage analog input (T_REF) Voltage analog input (V_REF), - 10...10 V input impedance: 10 kOhm, resolution: 14 bits
Control signal type	CN2 : servo motor encoder feedback
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 EN/ISO 13849-1 : 2008 SIL 2 conforming to EN/ISO 13849-1 : 2009/AC SIL 2 conforming to EN 60204-1 : 2006 SIL 2 conforming to EN 60204-1 : 2009/A1 SIL 2 conforming to EN 60204-1 : 2010/AC SIL 2 conforming to IEC 62061 : 2012
Communication interface	CANmotion, integrated CANopen, 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 (Modbus Serial line slave)
Status LED	1 LED red for error 1 LED red for charge 1 LED green for RUN
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, 3 motor stacks) at 1500 W
Width	55 mm
Height	150 mm
Depth	170 mm
Product weight	1.2 kg
Output current 3s peak 2	21 A 220 V
Output current 3s peak 3	21 A 220 V

Environment

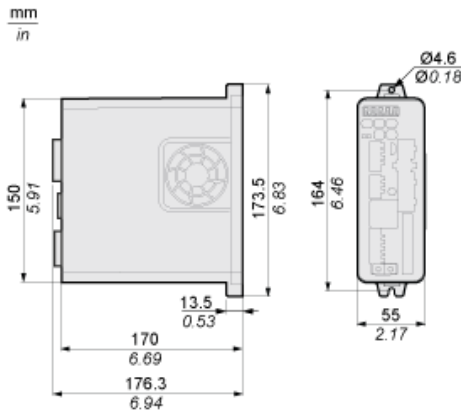
Electromagnetic compatibility	Conducted emission (test level:level 3, category C3) conforming to EN/IEC 61800-3
Standards	EN/IEC 61800-5-1
Product certifications	CE cULus CSA
IP degree of protection	IP20
Vibration resistance	3M4, amplitude = 3 mm (f = 9...200 Hz) conforming to IEC 60721-3-3
Shock resistance	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 derating)

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1442 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of Life Information
Product end of life instructions	Available

Dimensions

Dimensions of Drive



Mounting Clearance

Mounting Distances and Air Circulation

mm
in.

