# Product data sheet Characteristics

## LXM05CD10M2

motion servo drive LXM05C - 0.75kW - 200..240 V - 1-phase - with EMC filter



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Range of product	Lexium 05	
Product or component type	Motion servo drive	
Component name	LXM05C	
Network number of phases	Single phase	
Power supply voltage	200240 V - 1510 %	
Continuous output current	4 A at 4 kHz 3.2 A at 8 kHz	
Nominal power	0.75 kW at 4 kHz	
Discrete input number	6 logic input(s)	
Analogue input number	1	
Type of polarization	No polarization impedances for Modbus	

#### Complementary

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Power supply voltage limits	170264 V	
Supply frequency	50/60 Hz - 55 %	-
Power supply frequency limits	47.563 Hz	
Transient RMS output current	6 A at 8 kHz for 3 s	:
	7 A at 4 kHz for 3 s	-
Line current	6.7 A at 240 V	
	8.1 A at 200 V	7
Maximum prospective line Isc	1 kA	Ž.
Switching frequency	4 kHz	
	8 kHz	<u> </u>
Overvoltage category	III	0
Inrush current	< 60 A	
Leakage current	< 30 mA	<u>.</u>
Output voltage	<= power supply voltage	<u>.</u>
Insulation	Electrical between power and control	<u>.</u>
Recommended type of cable for	Without mounting kit :single-strand IEC cable at 45 °C, copper 70 °C PVC	
mounting in an enclosure	Without mounting kit :single-strand IEC cable at 45 °C, copper 90 °C XLPE/EPR	5
Electrical connection	Terminal, clamping capacity: 2.5 mm² (AWG 14)PA/+, PBI, PBe	
	Terminal, clamping capacity: 2.5 mm² (AWG 14)R/L1, S/L2, T/L3	
Tightening torque	0.8 N.m (PA/+, PBI, PBe)	

	0.8 N.m (R/L1, S/L2, T/L3)
Discrete input type	Logic input(s) (LI1, LI2, LI3, LI4)
Sampling duration	0.25 ms (ANA1+/ANA1-, ANA2+/ANA2-), analog input(s) 0.25 ms (LI1, LI2, LI3, LI4), discrete input(s)
Discrete input voltage	24 V DC (logic input(s))
Discrete input logic	Negative (LI1, LI2, LI3, LI4) state 0: > 19 V, state 1: < 9 V conforming to EN/IEC 61131-2 type 1 Positive logic (LI1, LI2, LI3, LI4) state 0: < 5 V, state 1: > 15 V conforming to EN/IEC 61131-2 type 1
Response time	<= 10 ms
Discrete output number	3
Discrete output type	Logic output(s) (LO1, LO2, LO3) 24 V DC
Discrete output voltage	<= 30 V DC
Discrete output logic	Negative (LO1, LO2, LO3) conforming to EN/IEC 61131-2 Positive (LO1, LO2, LO3) conforming to EN/IEC 61131-2
Contact bounce time	1 ms (LI1LI4)
Braking current	50 mA
Response time on output	1 ms (LO1, LO2) for discrete output(s)
Absolute accuracy error	< +/- 1 % 25 °C < +/- 2 % over operating temperature range
Linearity error	< +/- 0.5 %
Analogue input type	Analog input (ANA1+/ANA1-) differential +/- 10 V, >= 10000 Ohm, 14 bits
Protection type	Against reverse polarity for inputs signal Against short-circuits for outputs signal
Safety function	PWR protection of the machine stop and/or prevent unintended operation of the servo motor conforming to IEC/EN 61800-5-2  PWR protection of the machine stop and/or prevent unintended operation of the servo motor conforming to ISO 13849-1 level d  PWR protection of the system process stop and/or prevent unintended operation of the servo motor conforming to EN/IEC 61508 level SIL2  PWR protection of the system process stop and/or prevent unintended operation of the servo motor conforming to IEC/EN 61800-5-2
Communication port protocol	Modbus
Connector type	RJ45 (labelled CN4) for Modbus
Physical interface	2-wire RS485 multidrop Modbus RS422 for 2 A/B input(s), <= 400 kHz RS422 for 2 CW/CCW input(s), <= 400 kHz RS422 for 2 ESIM output input(s), <= 400 kHz RS422 for 2 P/D input(s), <= 400 kHz
Transmission rate	9600, 19200, 38400 bps for Modbus
Data format	8 bits, no parity, 1 or 2 stop Modbus 8 bits, odd or even parity, 1 stop Modbus
Number of addresses	1247 addresses for Modbus
Communication service	Communication monitoring for Modbus Diagnostics (08) for Modbus Read device identification (43) for Modbus Read holding registers (03) for Modbus Read/write multiple registers (23) for Modbus Write multiple registers (16) for Modbus Write single register (06) for Modbus
Diagnostics	1 LED red signalling drive voltage
Signalling function	Display of faults on integrated 7-segment display terminal
Max nodes number	31 for Modbus
Input resistance	2 kOhm
Marking	CE
Type of cooling	Natural convection
Operating position	Vertical +/- 10 degree
Product weight	1.1 kg

### Environment

EMC filter	Integrated
Electromagnetic compatibility	1.2/50 µs - 8/20 µs surge immunity test level 3 conforming to IEC 61000-4-5

	Electrical fast transient/burst immunity test level 4 conforming to IEC 61000-4-4 Electrostatic discharge immunity test level 3 conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test level 3 conforming to IEC 61000-4-3
Standards	EN/IEC 61800-5-1 EN/IEC 61800-3 EN/IEC 50178
Product certifications	CUL UL
IP degree of protection	IP20 on upper part with protective cover removed conforming to EN/IEC 60529 IP20 on upper part with protective cover removed conforming to EN/IEC 61800-5-1 IP41 on upper part with protective cover in place conforming to EN/IEC 60529 IP41 on upper part with protective cover in place conforming to EN/IEC 61800-5-1
Vibration resistance	1.5 mm peak to peak (f = 313 Hz) conforming to EN/IEC 60068-2-6 1 gn (f = 13150 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) conforming to EN/IEC 60028-2-27
Pollution degree	2 conforming to EN/IEC 61800-5-1
Environmental characteristic	Classes 3C1 conforming to IEC 60721-3-3
Relative humidity	Class 3K3 (5 to 93 %) without condensation conforming to IEC 60721-3-3
Ambient air temperature for operation	050 °C
Ambient air temperature for storage	-2570 °C
Operating altitude	<= 1000 m without derating > 10002000 m with conditions

#### Contractual warranty

Warranty period	18 months