

Product datasheet

Specifications



Control unit, Lexium 32i, LXM32i, EtherCAT

LXM32IECT

Main

Range of product	Lexium 32i
Product or component type	Control unit
Device short name	LXM32i
Format of the drive	Board
Discrete input number	2 safety discrete input(s) 4 logic discrete input(s)
Discrete input type	Safety (compliment of STO_A, compliment of STO_B terminals) Logic (DI terminals)

Complementary

Sampling duration	DI: 0.25 ms discrete
Discrete input voltage	24 V DC for capture 24 V DC for logic 24 V DC for safety
Discrete input logic	Positive (compliment of STO_A, compliment of STO_B) at State 0: < 5 V at State 1: > 15 V conforming to IEC 61131-2 Type 1 Positive (DI) at State 0: > 19 V at State 1: < 9 V conforming to IEC 61131-2 Type 1 Positive or negative (DI) at State 0: < 5 V at State 1: > 15 V conforming to IEC 61131-2 Type 1
Response time	<= 5 ms compliment of STO_A, compliment of STO_B
Discrete output number	2
Discrete output type	Logic output(s) (DO)24 V DC
Discrete output voltage	<= 30 V DC
Discrete output logic	Positive or negative (DO) conforming to IEC 61131-2
Contact bounce time	<= 1 ms for compliment of STO_A, compliment of STO_B 0.25 µs...1.5 ms for DI
Braking current	50 mA
Response time on output	250 µs (DO) for discrete output(s)
Control signal type	Servo motor encoder feedback
Protection type	Against reverse polarity: inputs signal Against short-circuits: outputs signal
Safety function	Safe torque off safety function, integrated
Safety level	SIL 3 conforming to IEC 61508 PL = e conforming to ISO 13849-1
Communication interface	EtherCAT, integrated
Connector type	RJ45 for Modbus M12 for EtherCAT

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Method of access	Slave
Physical interface	2-wire RS485 multidrop for Modbus
Transmission rate	9600, 19200, 38400 bps for bus length of 0...40 m for Modbus
Number of addresses	1...127 for CANopen, CANmotion 1...247 for Modbus
Status LED	1 LED (red) servo drive voltage 1 LED error 1 LED RUN
Electromagnetic compatibility	Conducted EMC conforming to EN 55011 class A group 1 Conducted EMC conforming to EN 55011 class A group 2 Conducted EMC conforming to EN/IEC 61800-3 environment 2 category C3 Conducted EMC conforming to IEC/EN 61800-3 category C2 EMC immunity conforming to IEC/EN 61800-3 environments 1 and 2 EMC immunity level 3 conforming to IEC 61000-4-2 EMC immunity level 3 conforming to IEC 61000-4-3 EMC immunity level 3 conforming to IEC 61000-4-5 EMC immunity level 4 conforming to IEC 61000-4-4 Radiated EMC conforming to EN 55011 class A group 2 Radiated EMC conforming to IEC/EN 61800-3 category C3
Type of cooling	Natural convection
Operating altitude	<= 1000 m without derating > 1000...3000 m with conditions
Operating position	Vertical +/- 10 degree
Net weight	0.637 kg

Environment

Standards	IEC 61800-3 IEC 61800-5-1
product certifications	TÜV CSA UL
marking	CE
IP degree of protection	IP65
Vibration resistance	1 gn (f= 13...150 Hz) conforming to IEC 60068-2-6 1.5 mm peak to peak (f= 3...13 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to IEC 60028-2-27
Pollution degree	2 conforming to IEC 61800-5-1
Environmental characteristic	Classes 3C1 conforming to IEC 60721-3-3
Relative humidity	Class 3K3 (5 to 85 %) without condensation conforming to IEC 60721-3-3
Ambient air temperature for operation	0...50 °C conforming to UL
Ambient air temperature for storage	-25...70 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.3 cm
Package 1 Width	17.0 cm
Package 1 Length	23.5 cm
Package 1 Weight	645.0 g
Unit Type of Package 2	S04

Number of Units in Package 2	17
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	12.098 kg

Contractual warranty

Warranty	18 months
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