Product datasheet





integrated drive ILS with stepper motor - 24..48 V - EtherCAT - 3.5 Α

ILS2E572PB1A0

! Discontinued on: 30 Jun 2023



Main

Range of product	Lexium integrated drive	
Product or component type	Motion integrated drive	
Device short name	ILS	
Motor type	3-phase stepper motor	
Number of motor poles	6	
Network number of phases	Single phase	
[Us] rated supply voltage	24 V 48 V	
network type	DC	
Communication interface	EtherCAT, integrated	
Length	115.9 mm	
Winding type	Medium speed of rotation and medium torque	
Electrical connection	Printed circuit board connector	
Holding brake	Without	
Gear box type	Without	
Nominal speed	1000 rpm at 48 V 500 rpm at 24 V	
Nominal torque	0.9 N.m	
Holding torque	0.9 N.m	

Complementary

Transmission rate	100 Mbits
mounting support	Flange
Motor flange size	57 mm
Number of motor stacks	2
Centring collar diameter	38.1 mm
Centring collar depth	1.6 mm
Number of mounting holes	4
Mounting holes diameter	5.2 mm
Circle diameter of the mounting holes	66.6 mm
Feedback type	Index pulse

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Environment

Standards	EN 61800-3:2001, second environment	
	EN/IEC 61800-3	
	IEC 61800-3, Ed 2	
	IEC 60072-1	
	EN 50347	
	EN 61800-3 : 2001-02	
	EN/IEC 50178	
Product certifications	UL	
	cUL	
	TÜV	
Ambient air temperature for	4055 °C (with power derating of 2 % per °C)	
operation	040 °C (without derating)	
Permissible ambient air	105 °C power amplifier	
temperature around the device	110 °C motor	

Ambient air temperature for storage	-2570 °C
Operating altitude	<= 1000 m without derating
Relative humidity	1585 % without condensation
Vibration resistance	20 m/s² (f= 10500 Hz) 10 cycles conforming to EN/IEC 60068-2-6
Shock resistance	150 m/s² 1000 shocks conforming to EN/IEC 60068-2-29
IP degree of protection	IP41 shaft bushing: conforming to EN/IEC 60034-5 IP54 total except shaft bushing: conforming to EN/IEC 60034-5

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.0 cm
Package 1 Width	18.5 cm
Package 1 Length	35.5 cm
Package 1 Weight	1.9 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

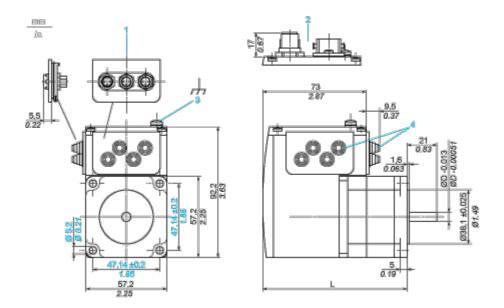
Circularity Profile	End of Life Information
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration

19 Aug 2024

Dimensions Drawings

Integrated Drive

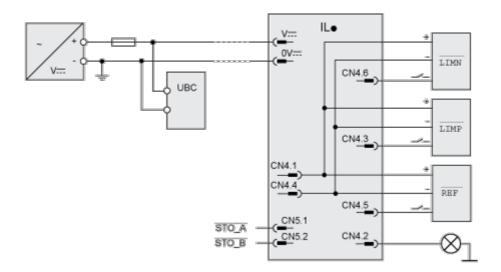
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 115.9 mm/4.56 in.
- D 6.35 mm/0.25 in.

Connections and Schema

Connection Example with 4 I/O Signals

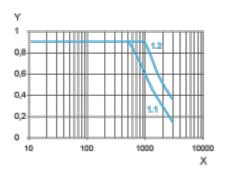


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Performance Curves

Torque Characteristics



- X Speed of rotation in rpm
- Y Torque in Nm
- 1.1 Max. torque at 24 V
- 1.2 Max. torque at 48 V