Product datasheet

Specifications





integrated drive ILA with servo motor - 24..48 V - Modbus TCP indus connector

ILA2T571TC1A0

Main

Range of product	Lexium integrated drive	
Product or component type	Motion integrated drive	
Device short name	ILA	
Motor type	AC synchronous servo 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	Modbus TCP, integrated	
Length	145.3 mm	
Winding type	High speed of rotation and medium torque	
Electrical connection	Industrial connector	
Holding brake	Without	
Gear box type	Without	
Nominal speed	5000 rpm at 24 V 7000 rpm at 48 V	
Nominal torque	0.31 N.m	

Complementary

Transmission rate	10, 100 Mbits
mounting support	Flange
Motor flange size	57 mm
Number of motor stacks	1
Centring collar diameter	50 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	Single turn encoder
Shaft end	Untapped
Second shaft	Without second shaft end

Shaft diameter	9 mm	
Shaft length	20 mm	
Supply voltage limits	1855.2 V	
Current consumption	11000 mA peak 7500 mA maximum continuous	
Associated fuse rating	16 A	
Commissioning interface	RS485 Modbus TCP (9.6, 19.2 and 38.4 kbauds)	
Input/output type	4 signals (each be used as input or output)	
Voltage state 0 guaranteed	-34.5 V	
Voltage state 1 guaranteed	1530 V	
Discrete input current	10 mA at 24 V for safety input 2 mA at 24 V for 24 V signal interface	
Discrete output voltage	2325 V	
Maximum switching current	100 mA per output 200 mA total	
Protection type	Safe torque off Overload of output voltage Short circuit of the output voltage	
Peak stall torque	0.45 N.m	
Continuous stall torque	0.31 N.m	
Speed feedback resolution	16384 points/turn	
Accuracy error	+/- 0.05 °	
Rotor inertia	0.095 kg.cm²	
Maximum radial force Fr	89 N	
Maximum axial force Fa	104 N (force pressure) 104 N (tensile force)	
Service life in hours	20000 h bearing	
marking	CE	
Type of cooling	Natural convection	
Net weight	1.4 kg	

Environment

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

Packing Units

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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	1.7 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
②	Rohs Exemption Information	Yes
	Pvc Free	

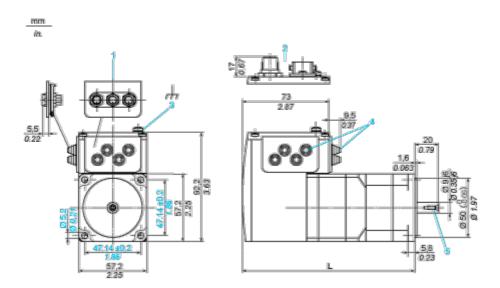
Certifications & Standards

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

Dimensions Drawings

Integrated Drive without Holding Brake

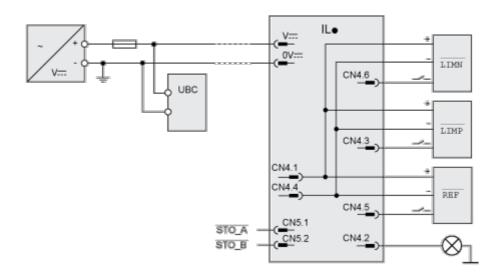
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm/0.12} \dots 0.35 \text{ in.}$
- 5 Centring hole DIN 332 DS M3
- L 145.3 mm/5.72 in.

Connections and Schema

Connection Example with 4 I/O Signals

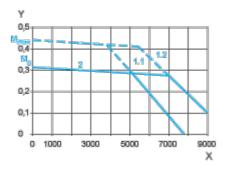


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Performance Curves

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
- 2 Continuous torque