ILA2T572PB1F0

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





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	209.3 mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Printed circuit board connector
Holding brake	With
Gear box type	Without
Nominal speed	1600 rpm at 24 V 3400 rpm at 48 V
Nominal torque	0.78 N.m
Holding torque	1.2 N.m holding brake

Complementary

Transmission rate	10, 100 Mbits
Mounting support	Flange
Motor flange size	57 mm
Number of motor stacks	2
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	7000 mA maximum continuous 8500 mA peak
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	Short circuit of the output voltage
	Overload of output voltage
	Safe torque off
Peak stall torque	1.62 N.m
Continuous stall torque	0.78 N.m
Speed feedback resolution	16384 points/turn
Accuracy error	+/- 0.05 °
Rotor inertia	0.243 kg.cm²
Maximum radial force Fr	107 N
Maximum axial force Fa	104 N (force pressure)
	104 N (tensile force)
Service life in hours	20000 h bearing
Brake pull-in power	10 W
Brake release time	14 ms
Brake application time	13 ms
Marking	CE
Type of cooling	Natural convection
Net weight	1.7 kg

Environment

Standards	EN/IEC 61800-3	
	IEC 60072-1	
	EN 61800-3:2001, second environment	
	IEC 61800-3, Ed 2	
	EN 50347	
	EN/IEC 50178	
	EN 61800-3 : 2001-02	
Product certifications	cUL[RETURN]TÜV[RETURN]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	105 °C power amplifier	
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

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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	2.4 kg	

Offer Sustainability

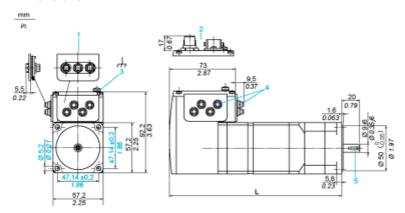
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	€Yes	

Environmental Disclosure	Product Environmental Profile
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
Contractual warranty	
Warranty	18 months

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Integrated Drive with Holding Brake

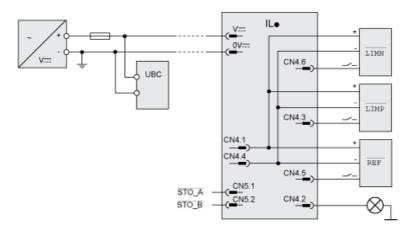
Dimensions



- Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- Accessories: cable entries \emptyset = 3 ... 9 mm/0.12 ... 0.35 in. Centring hole DIN 332 DS M3
- 4 5 L
- 209.3 mm/8.24 in.

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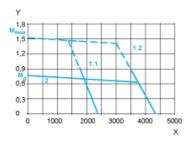
Connection Example with 4 I/O Signals



Product data sheet Performance Curves

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Torque Characteristics



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