

(!) To be discontinued

#### 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	DeviceNet, integrated
Length	207.8 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	1600 rpm at 24 V 3400 rpm at 48 V
Nominal torque	0.78 N.m

### Complementary

Transmission rate	125, 250, 500 kbauds
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	Multi 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	Overload of output voltage Short circuit of the 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 x 4096 turns
Accuracy error	+/- 0.05 °
Rotor inertia	0.173 kg.cm <sup>2</sup>
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
Marking	CE
Type of cooling	Natural convection
Net weight	1.7 kg
Environment	
Environment Standards	IEC 60072-1 IEC 61800-3, Ed 2 EN/IEC 61800-3 EN/IEC 50178 EN 61800-3:2001, second environment EN 50347 EN 61800-3:2001-02
Product certifications	cUL TÜV 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 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	19.0 cm
Package 1 Length	39.0 cm
Package 1 Weight	2.1 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) EU RoHS Declaration
Mercury free	Yes
	Yes
RoHS exemption information	163
RoHS exemption information  China RoHS Regulation	China RoHS declaration
China RoHS Regulation	China RoHS declaration
China RoHS Regulation Environmental Disclosure	China RoHS declaration  Product Environmental Profile

#### **Contractual warranty**

Warranty 18 months

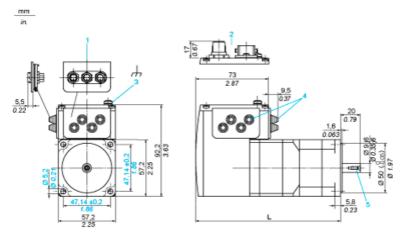
## **Product data sheet**

## ILA2D572PB2A0

**Dimensions Drawings** 

### **Integrated Drive without Holding Brake**

#### **Dimensions**



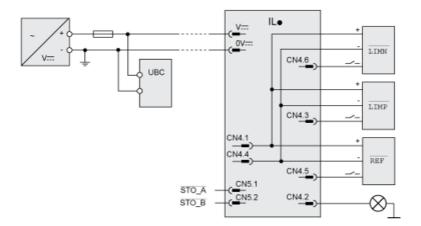
- Accessories: I/O signal insert with industrial connectors Option: industrial connectors
- Earth (ground) terminal Accessories: cable entries  $\emptyset = 3 \dots 9 \text{ mm/0.12} \dots 0.35 \text{ in.}$
- Centring hole DIN 332 DS M3

## **Product data sheet**

# ILA2D572PB2A0

Connections and Schema

## Connection Example with 4 I/O Signals

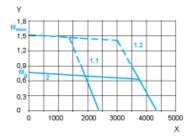


## **Product data sheet**

## ILA2D572PB2A0

**Performance Curves** 

### **Torque Characteristics**



Speed of rotation in rpm

Torque in Nm

1.1 Max. torque at 24 V

Max. torque at 48 V

1.2 Continuous torque

### Recommended replacement(s)

ILA2D572PB2A0 is replaced by the following product range:



Lexium ILA, ILE, ILS

Integrated drives for motion control

Products: 653