# **Product datasheet**

Specifications





integrated drive ILA with servo motor - 24..48V - Ethernet Powerlink- indus conn

ILA2P571PC1A0

() Discontinued on: 15 Jun 2023

Discontinued - Service only

(!) To be end-of-service on: 31 Dec 2026

### 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   Ethernet Powerlink, integrated     Length   145.3 mm     Winding type   Medium speed of rotation and medium toro     Fleetrical connection   Industrial connector     Holding brake   Without	
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 \vee 48 \vee 48 \vee DC   network type DC   Communication interface Ethernet Powerlink, integrated   Length 145.3 mm   Winding type Medium speed of rotation and medium toro   Electrical connection Industrial connector   Holding brake Without	
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   48 V     network type   DC     Communication interface   Ethernet Powerlink, integrated     Length   145.3 mm     Winding type   Medium speed of rotation and medium toro     Electrical connection   Industrial connector     Holding brake   Without	
Number of motor poles   6     Network number of phases   Single phase     [Us] rated supply voltage   24 V     48 V   48 V     network type   DC     Communication interface   Ethernet Powerlink, integrated     Length   145.3 mm     Winding type   Medium speed of rotation and medium toro     Electrical connection   Industrial connector     Holding brake   Without	
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48 V   network type   DC   Communication interface   Ethernet Powerlink, integrated   Length   145.3 mm   Winding type   Medium speed of rotation and medium tord   Electrical connection   Industrial connector   Holding brake	
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Winding type Medium speed of rotation and medium tord   Electrical connection Industrial connector   Holding brake Without	
Electrical connection Industrial connector   Holding brake Without	
Holding brake Without	ine
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Gear box type Without	
Nominal speed 3200 rpm at 24 V 5100 rpm at 48 V	
Nominal torque 0.44 N.m	

## Complementary

Transmission rate	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	5000 mA maximum continuous 7000 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	Safe torque off Overload of output voltage Short circuit of the output voltage
Peak stall torque	0.62 N.m
Continuous stall torque	0.44 N.m
Speed feedback resolution	16384 points/turn
Accuracy error	+/- 0.05 °
Rotor inertia	0.095 kg.cm <sup>2</sup>
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	IEC 60072-1 EN 50347 EN 61800-3 : 2001-02 EN/IEC 61800-3 EN/IEC 50178 EN 61800-3:2001, second environment IEC 61800-3, Ed 2
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/s <sup>2</sup> 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	1.7 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

## Well-being performance



Rohs Exemption Information

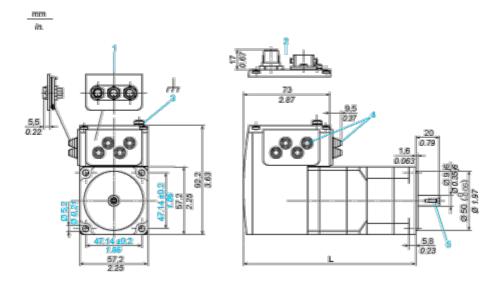
## **Certifications & Standards**

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

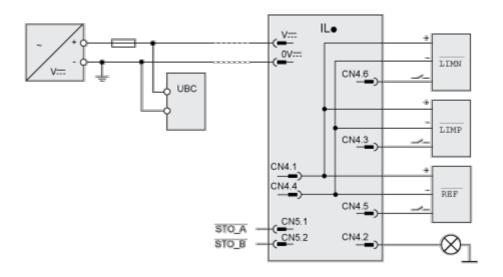
#### Dimensions



- 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.

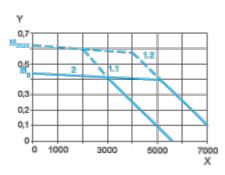
Connections and Schema

### Connection Example with 4 I/O Signals



#### 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