

# Product datasheet

Specifications



## integrated drive ILA with servo motor - 24..48 V - EtherNet/IP - PCB connector

ILA2K571PB2A0

⚠ Discontinued on: 9 Feb 2023

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### 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/IP, integrated
Length	189.3 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	3200 rpm at 24 V 5100 rpm at 48 V
Nominal torque	0.44 N.m

### Complementary

Transmission rate	125, 250, 500 kbauds
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	Multi turn encoder
Shaft end	Untapped

<b>Second shaft</b>	Without second shaft end
<b>Shaft diameter</b>	9 mm
<b>Shaft length</b>	20 mm
<b>Supply voltage limits</b>	18...55.2 V
<b>Current consumption</b>	5000 mA maximum continuous 7000 mA peak
<b>Associated fuse rating</b>	16 A
<b>Commissioning interface</b>	RS485 Modbus TCP (9.6, 19.2 and 38.4 kbauds)
<b>Input/output type</b>	4 signals (each be used as input or output)
<b>Voltage state 0 guaranteed</b>	-3...4.5 V
<b>Voltage state 1 guaranteed</b>	15...30 V
<b>Discrete input current</b>	10 mA at 24 V for safety input 2 mA at 24 V for 24 V signal interface
<b>Discrete output voltage</b>	23...25 V
<b>Maximum switching current</b>	100 mA per output 200 mA total
<b>Protection type</b>	Safe torque off Short circuit of the output voltage Overload of output voltage
<b>Peak stall torque</b>	0.62 N.m
<b>Continuous stall torque</b>	0.44 N.m
<b>Speed feedback resolution</b>	16384 points/turn x 4096 turns
<b>Accuracy error</b>	+/- 0.05 °
<b>Rotor inertia</b>	0.095 kg.cm <sup>2</sup>
<b>Maximum radial force Fr</b>	89 N
<b>Maximum axial force Fa</b>	104 N (force pressure) 104 N (tensile force)
<b>Service life in hours</b>	20000 h bearing
<b>Marking</b>	CE
<b>Type of cooling</b>	Natural convection
<b>Net weight</b>	1.4 kg

## Environment

<b>Standards</b>	EN/IEC 50178 IEC 60072-1 EN/IEC 61800-3 EN 50347 EN 61800-3 : 2001-02 EN 61800-3:2001, second environment IEC 61800-3, Ed 2
<b>Product certifications</b>	TÜV UL cUL
<b>Ambient air temperature for operation</b>	40...55 °C (with power derating of 2 % per °C) 0...40 °C (without derating)
<b>Permissible ambient air temperature around the device</b>	105 °C power amplifier 110 °C motor
<b>Ambient air temperature for storage</b>	-25...70 °C

<b>Operating altitude</b>	<= 1000 m without derating
<b>Relative humidity</b>	15...85 % without condensation
<b>Vibration resistance</b>	20 m/s <sup>2</sup> (f= 10...500 Hz) 10 cycles conforming to EN/IEC 60068-2-6
<b>Shock resistance</b>	150 m/s <sup>2</sup> 1000 shocks conforming to EN/IEC 60068-2-29
<b>IP degree of protection</b>	IP41 shaft bushing: conforming to EN/IEC 60034-5 IP54 total except shaft bushing: conforming to EN/IEC 60034-5

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.0 cm
<b>Package 1 Width</b>	18.5 cm
<b>Package 1 Length</b>	35.5 cm
<b>Package 1 Weight</b>	1.7 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

[EU RoHS Directive](#)

[Compliant By Exemption](#)

[PVC free](#)

[Yes](#)

## Use Longer



### Lifetime extension

[Repair](#)

[No](#)

## Use Again



### Repack and remanufacture

[End of life manual availability](#)

[End of Life Information](#)



Wiring

Connection Example with 4 I/O Signals

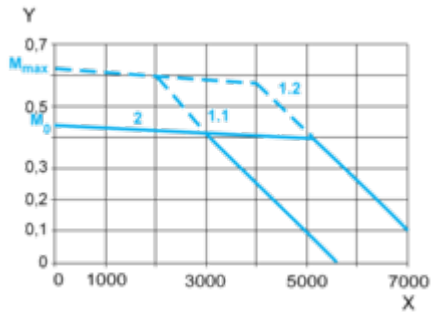
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PerformanceCurves

Torque Characteristics

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- 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