Product datasheet

Specifications





integrated drive ILA with servo motor - 24..36 V - RS485 - PCB connector

ILA1R572PB2A0

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 36 V
network type	DC
Communication interface	RS485, 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	2600 rpm at 24 V 4300 rpm at 36 V
Nominal torque	0.45 N.m

Complementary

Transmission rate	9.6, 19.2 and 38.4 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

9 mm
20 mm
1840 V
7000 mA maximum continuous 8500 mA peak
10 A
4 signals (each be used as input or output)
-34.5 V
1530 V
10 mA at 24 V on/STO_A for safety input 3 mA at 24 V on/STO_B for safety input 2 mA at 24 V for 24 V signal interface
2325 V
100 mA per output 200 mA total
Short circuit of the output voltage Safe torque off Overload of output voltage
0.72 N.m
0.45 N.m
16384 points/turn x 4096 turns
+/- 0.05 °
0.18 kg.cm²
107 N
104 N (force pressure) 104 N (tensile force)
20000 h bearing
CE
Natural convection
1.7 kg

Environment

Standards	EN 61800-3 : 2001-02 IEC 60072-1 EN/IEC 50178 EN 50347 EN/IEC 61800-3 IEC 61800-3, Ed 2 EN 61800-3:2001, second environment
Product certifications	TÜV cUL UL
Ambient air temperature for operation	5065 °C (with power derating of 2 % per °C) 050 °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

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **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-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

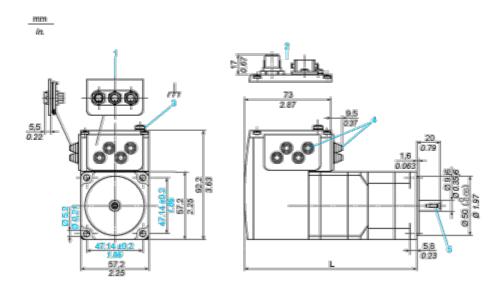
Certifications & Standards

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

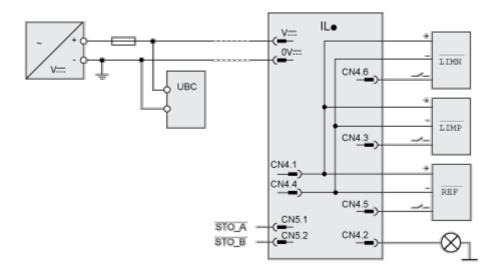
Dimensions



- 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: 197.3 mm/7.77 in.

Connections and Schema

Connection Example with 4 I/O Signals

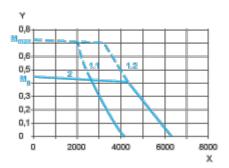


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Performance Curves

Torque Characteristics



- X Speed of rotation in rpm
- Y Torque in Nm
- 1.1 Max. torque at 24 V
- 1.2 Max. torque at 36 V
- 2 Continuous torque