# **Product datasheet**

Specifications





# integrated drive ILA with servo motor - 24..48 V - EtherCAT - PCB connector

ILA2E572PB1F0

EAN Code: 3606485187471

### 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	EtherCAT, 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	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

Without second shaft end	
9 mm	
20 mm	
1855.2 V	
7000 mA maximum continuous 8500 mA peak	
16 A	
RS485 Modbus TCP (9.6, 19.2 and 38.4 kbauds)	
4 signals (each be used as input or output)	
-34.5 V	
1530 V	
10 mA at 24 V 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 Overload of output voltage Safe torque off	
1.62 N.m	
0.78 N.m	
16384 points/turn	
+/- 0.05 °	
0.243 kg.cm <sup>2</sup>	
107 N	
104 N (force pressure) 104 N (tensile force)	
20000 h bearing	
10 W	
14 ms	
13 ms	
CE	
Natural convection	
1.7 kg	

# Environment

Standards	IEC 60072-1 IEC 61800-3, Ed 2 EN 61800-3:2001, second environment EN 61800-3 : 2001-02 IEC 50347 IEC 61800-3
	IEC 50178
Product certifications	UL cUL TÜV
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/s <sup>2</sup> (f= 10500 Hz) 10 cycles conforming to IEC 60068-2-6
Shock resistance	150 m/s <sup>2</sup> 1000 shocks conforming to IEC 60068-2-29
IP degree of protection	IP41 shaft bushing: conforming to IEC 60034-5 IP54 total except shaft bushing: conforming to IEC 60034-5

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.5 cm
Package 1 Width	19.3 cm
Package 1 Length	38 cm
Package 1 Weight	2.657 kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	11.88 kg
Unit Type of Package 3	S06
Number of Units in Package 3	12
Package 3 Height	73.5 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	44.884 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



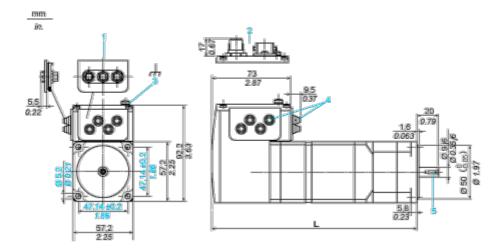
### **Certifications & Standards**

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 with Holding Brake

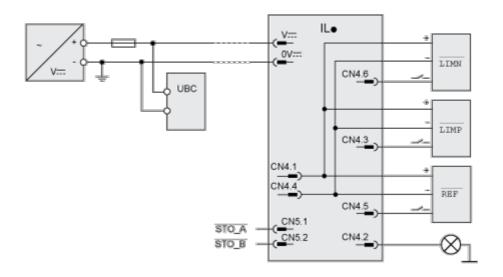
#### Dimensions



- 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 209.3 mm/8.24 in.

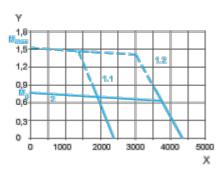
Connections and Schema

### 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