

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

ILA1F572TB1A0

EAN Code: 3389119225564

## 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	CANopen DS301, integrated	
Length	163.8 mm	
Winding type	High speed of rotation and medium torque	
Electrical connection	Printed circuit board connector	
Holding brake	Without	
Gear box type	Without	
Nominal speed	3100 rpm at 24 V 5000 rpm at 36 V	
Nominal torque	0.41 N.m	

# Complementary

Transmission rate	50, 100, 125, 250, 500, 800 and 1000 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	Single turn encoder
Shaft end	Untapped
Second shaft	Without second shaft end

9 mm	
20 mm	
1840 V	
7500 mA maximum continuous 9000 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 Overload of output voltage Safe torque off	
0.61 N.m	
0.41 N.m	
16384 points/turn	
+/- 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	IEC 50178 IEC 61800-3, Ed 2 EN 61800-3:2001, second environment EN 61800-3:2001-02 IEC 50347 IEC 61800-3 IEC 60072-1
Product certifications	TÜV UL cUL
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 IEC 60068-2-6	
Shock resistance	150 m/s² 1000 shocks conforming to IEC 60068-2-29	
IP degree of protection	IP41 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	11.500 cm
Package 1 Width	19.000 cm
Package 1 Length	39.500 cm
Package 1 Weight	2.196 kg
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	11.630 kg
Unit Type of Package 3	P06
Number of Units in Package 3	20
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	54.520 kg

# **Logistical informations**

Country of origin DE

# **Contractual warranty**

Warranty 18 months



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	478
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
PVC free	Yes

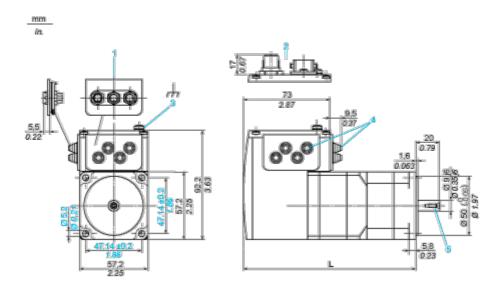
#### **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### **Dimensions Drawings**

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

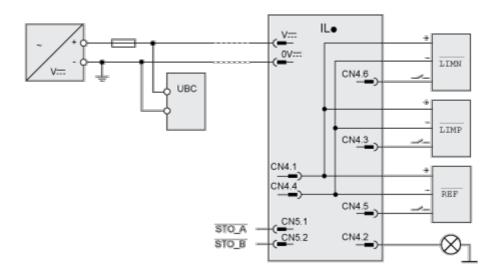
#### **Dimensions**



- 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 163.8 mm/6.45 in.

Connections and Schema

## Connection Example with 4 I/O Signals

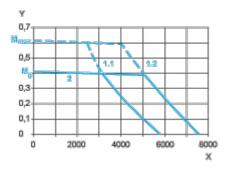


## **Product datasheet**

## **ILA1F572TB1A0**

#### 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