

integrated drive ILS with stepper motor - 24..36 V - CANopen DS301 - 3.5A

ILS1F572PB1A0

EAN Code: 3389119227063

#### Main

Range of product	Lexium integrated drive	
Product or component type	Motion integrated drive	
Device short name	ILS	
Motor type	3-phase stepper 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	115.9 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	300 rpm at 24 V 600 rpm at 36 V	
Nominal torque	0.9 N.m	
Holding torque	1.02 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	38.1 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	Index pulse
Shaft end	Untapped

Without second shaft end	
6.35 mm	
21 mm	
1840 V	
3500 mA maximum	
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	
Safe torque off Overload of output voltage Short circuit of the output voltage	
0.9 N.m	
0.9 N.m	
20000 points/turn	
+/- 6 arc min	
0.22 kg.cm²	
3000 rpm	
24 N	
100 N (tensile force) 8.4 N (force pressure)	
20000 h bearing	
CE	
Natural convection	
1.6 kg	

### **Environment**

Standards	IEC 61800-3 EN 61800-3:2001, second environment IEC 50347 EN 61800-3 : 2001-02 IEC 61800-3, Ed 2 IEC 60072-1 IEC 50178	
Product certifications	cUL UL TÜV	
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 IP54 total except shaft bushing: conforming to IEC 60034-5	

# **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.5 cm
Package 1 Width	17.0 cm
Package 1 Length	24.5 cm
Package 1 Weight	1.732 kg
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Height	30.0 cm
Package 2 Width	40.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	9.534 kg

# Logistical informations

Country of origin

## **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)	349
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Materials and Substances	
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)
SCIP Number	F800009a-26ea-46d4-b613-164e8055f98f
REACh Regulation	REACh Declaration
PVC free	Yes

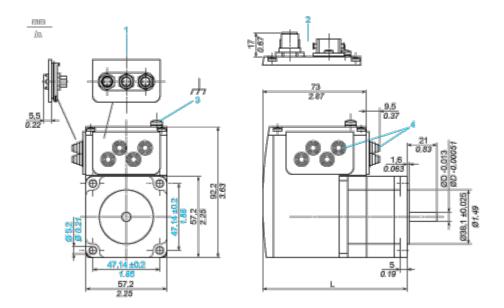
#### **Use Again**

○ 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**

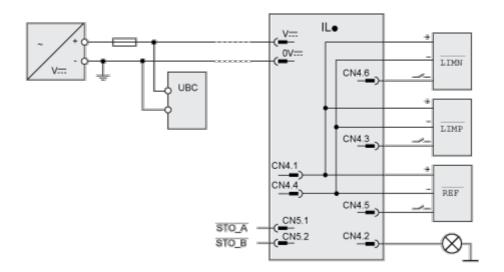
#### **Dimensions**



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries  $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 115.9 mm/4.56 in.
- D 6.35 mm/0.25 in.

Connections and Schema

#### Connection Example with 4 I/O Signals

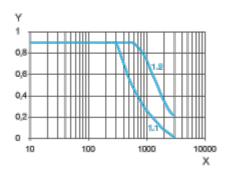


## **Product datasheet**

### ILS1F572PB1A0

#### 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