

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

ILS1F572PB1A0

Product availability: Non-Stock - Not normally stocked in distribution facility

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	
Phase	Single phase	
[Us] rated supply voltage	24 V 36 V	
Network type	DC	
Communication interface	CANopen DS301, Integrated	
Length	4.6 in (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 24 V 600 rpm 36 V	
Nominal torque	8.0 lbf.in (0.9 N.m)	
Holding torque	9.03 lbf.in (1.02 N.m)	

Complementary

Transmission Rate	50, 100, 125, 250, 500, 800 and 1000 kbauds
Mounting Support	Flange
Motor flange size	2.2 in (57 mm)
Number of motor stacks	2
Centring collar diameter	1.5 in (38.1 mm)
Centring collar depth	0.06 in (1.6 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.2 mm)
Circle diameter of the mounting holes	2.6 in (66.6 mm)
Feedback type	Index pulse
Shaft end	Untapped

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Without second shaft end	
0.25 in (6.35 mm)	
0.8 in (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 safety input 3 mA at 24 V on/STO_B safety input 2 mA at 24 V 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	
8.0 lbf.in (0.9 N.m)	
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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	
3.5 lb(US) (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	122149 °F (5065 °C) (with power derating of 2 % per °C) 32122 °F (050 °C) (without derating)
Permissible ambient air temperature around the device	221 °F (105 °C) power amplifier 230 °F (110 °C) motor
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)

Operating altitude	<= 3280.84 ft (1000 m) without derating	
Relative humidity	1585 % without condensation	
Vibration resistance	20 m/s² 10500 Hz) 10 cycles IEC 60068-2-6	
Shock resistance	150 m/s² 1000 shocks 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	

Ordering and shipping details

Category	US1PC5618288
Discount Schedule	PC56
GTIN	3389119227063
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.13 in (10.5 cm)
Package 1 Width	6.69 in (17.0 cm)
Package 1 Length	9.65 in (24.5 cm)
Package weight(Lbs)	3.818 lb(US) (1.732 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	21.019 lb(US) (9.534 kg)

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 CO2 eq, 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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

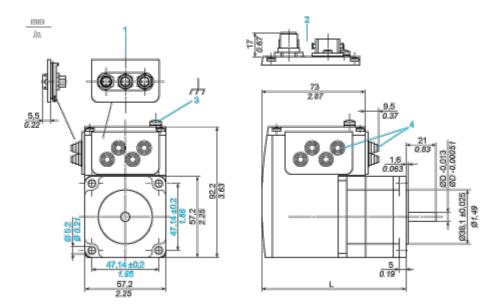
Use Again

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

Dimensions Drawings

Integrated Drive

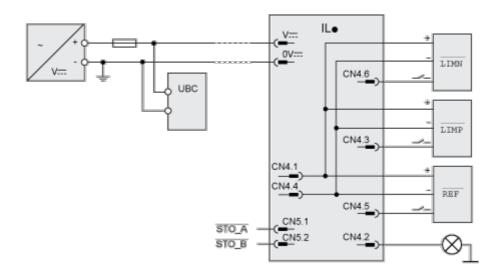
Dimensions



- 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

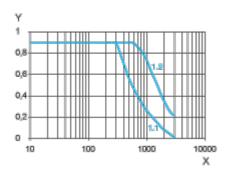


Product data sheet

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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