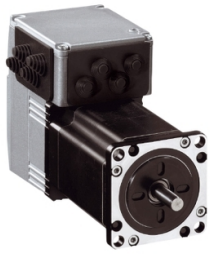
Product data sheet

Specifications



integrated drive ILS with stepper motor - 24..36V- I/O for motion sequence- 3.5A

ILS1M572PB1A0

Discontinued on: Oct 9, 2023

Discontinued

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	I/O for motion sequence, 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	9.6, 19.2 and 38.4 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)

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

Feedback type	Index pulse
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	0.25 in (6.35 mm)
Shaft length	0.8 in (21 mm)
Supply voltage limits	18…40 V
Current consumption	3500 mA maximum continuous
Associated fuse rating	10 A
Commissioning interface	RS485 9.6, 19.2 and 38.4 kbauds)
Input/output type	4 signals (each be used as input or output)
Voltage state 0 guaranteed	-3...4.5 V
Voltage state 1 guaranteed	15...30 V
Discrete input current	10 mA at 24 V on/STO_A safety input 3 mA at 24 V on/STO_B safety input 10 mA at 24 V 24 V signal interface
Discrete output voltage	10...30 V
Maximum switching current	100 mA per output 200 mA total
Protection Type	Safe torque off Overload of output voltage Short circuit of the output voltage
Peak stall torque	8.0 lbf.in (0.9 N.m)
Continuous stall torque	8.0 lbf.in (0.9 N.m)
Speed feedback resolution	20000 points/turn
Accuracy error	+/- 6 arc min
Rotor inertia	0.22 kg.cm²
Maximum mechanical speed	3000 rpm
Maximum radial force Fr	24 N
Maximum axial force Fa	100 N tensile force) 8.4 N force pressure)
Service life in hours	20000 h bearing
Marking	CE
type of cooling	Natural convection
Product Weight	3.5 lb(US) (1.6 kg)

Environment

Standards	EN 50347 EN/IEC 50178 EN 61800-3 : 2001-02 IEC 61800-3, Ed 2 IEC 60072-1 EN 61800-3:2001, second environment EN/IEC 61800-3
Product Certifications	TÜV UL cUL
Ambient air temperature for operation	122…149 °F (50…65 °C) (with power derating of 2 % per °C) 32…122 °F (0…50 °C) (without derating)

Permissible ambient air temperature around the device	230 °F (110 °C) motor
Ambient Air Temperature for Storage	-13…158 °F (-25…70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating
Relative humidity	15…85 % without condensation
Vibration resistance	20 m/s² 10…500 Hz) 10 cycles EN/IEC 60068-2-6
Shock resistance	150 m/s² 1000 shocks 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

Ordering and shipping details

Category	US1PC5618288
Discount Schedule	PC56
GTIN	3389119227278
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.13 in (10.5 cm)
Package 1 Width	7.48 in (19.0 cm)
Package 1 Length	15.35 in (39.0 cm)
Package 1 Weight	5.3 lb(US) (2.4 kg)

Contractual warranty

Warranty	18 months

Environmental Data

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)	353
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

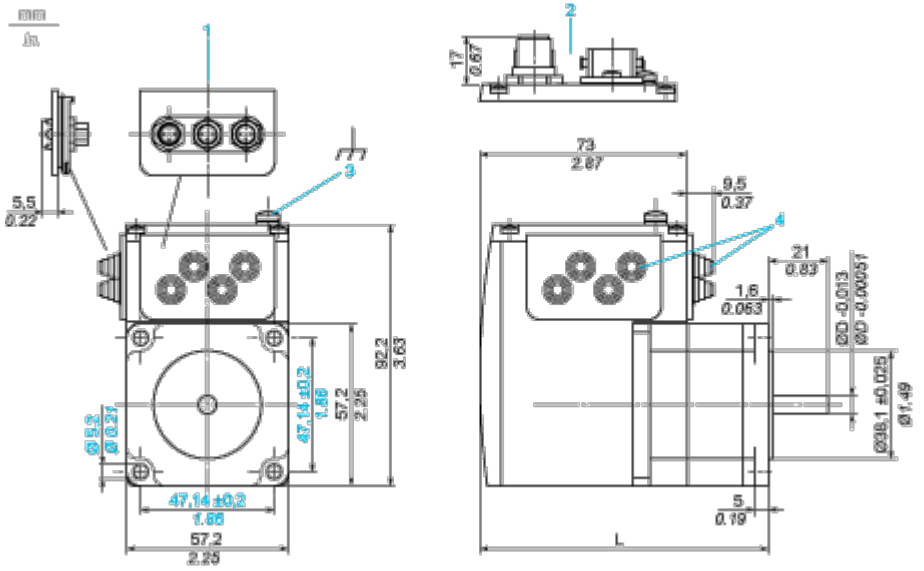
Repack and remanufacture

Circularity Profile	End of Life Information
Take-back	No
WEEE	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

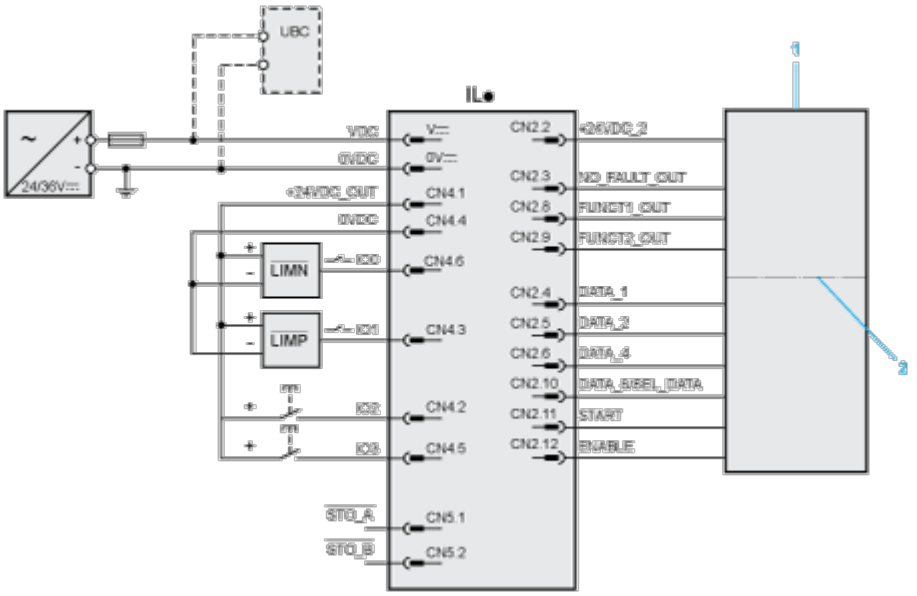
4 Accessories: cable entries Ø = 3 ... 9 mm/0.12 ... 0.35 in.

L 115.9 mm/4.56 in.

D 6.35 mm/0.25 in.

Connections and Schema

Connection Example with 4 I/O Signals

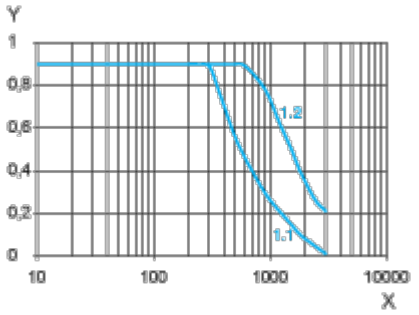


1 PLC

2 Galvanic isolation

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