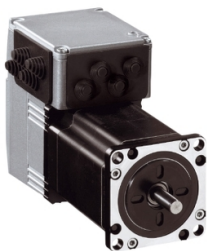


Product data sheet

Specifications



integrated drive ILS with stepper motor - 24..48 V - DeviceNet - 3.5 A

ILS2D573PC1A0

 **Discontinued on:** Dec 1, 2020

 **Discontinued**

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	48 V 24 V
Network Type	DC
Communication Interface	DeviceNet, Integrated
Length	5.47 in (138.9 mm)
Winding Type	Medium speed of rotation and medium torque
Electrical Connection	Industrial connector
Holding Brake	Without
Gear Box Type	Without
Nominal Speed	300 rpm 24 V 600 rpm 48 V
Nominal Torque	13.28 lbf.in (1.5 N.m)
Holding Torque	13.28 lbf.in (1.5 N.m)

Complementary

Transmission Rate	125, 250, 500 kbauds
Mounting Support	Flange
Motor Flange Size	2.24 in (57 mm)
Number Of Motor Stacks	3
Centring Collar Diameter	1.50 in (38.1 mm)
Centring Collar Depth	0.06 in (1.6 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.20 in (5.2 mm)
Circle Diameter Of The Mounting Holes	2.62 in (66.6 mm)
Feedback Type	Index pulse

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Shaft End	Untapped
Second Shaft	Without second shaft end
Shaft Diameter	0.31 in (8 mm)
Shaft Length	0.83 in (21 mm)
Supply Voltage Limits	18...55 V
Current Consumption	3500 mA maximum continuous
Associated Fuse Rating	16 A
Commissioning Interface	RS485 Modbus TCP 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 safety input 2 mA at 24 V 24 V signal interface
Discrete Output Voltage	23...25 V
Maximum Switching Current	100 mA per output 200 mA total
Protection Type	Safe torque off Short circuit of the output voltage Overload of output voltage
Peak Stall Torque	13.28 lbf.in (1.5 N.m)
Continuous Stall Torque	13.28 lbf.in (1.5 N.m)
Speed Feedback Resolution	20000 points/turn
Accuracy Error	+/- 6 arc min
Rotor Inertia	0.38 kg.cm²
Maximum Mechanical Speed	3000 rpm
Maximum Radial Force Fr	50 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
Net Weight	4.41 lb(US) (2 kg)

Environment

Standards	EN/IEC 61800-3 EN 61800-3 : 2001-02 IEC 61800-3, Ed 2 EN 50347 EN/IEC 50178 EN 61800-3:2001, second environment IEC 60072-1
Product Certifications	UL cUL TÜV
Ambient Air Temperature For Operation	104...131 °F (40...55 °C) with power derating of 2 % per °C) 32...104 °F (0...40 °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	-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	18288-LEXIUM INTEGRATED DRIVES II
Discount Schedule	PC56
Gtin	03389119227971
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

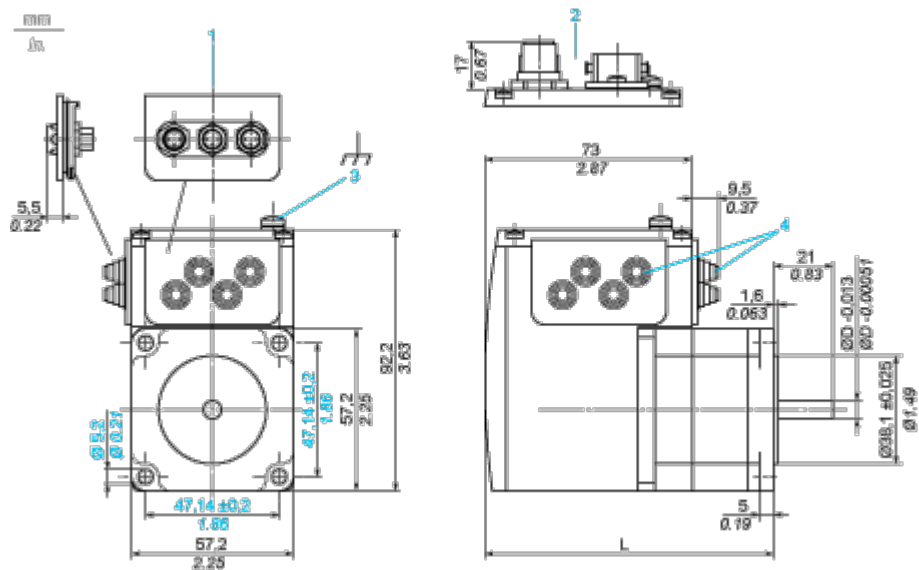
Contractual warranty

Warranty	18 months
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Dimensions Drawings

Integrated Drive

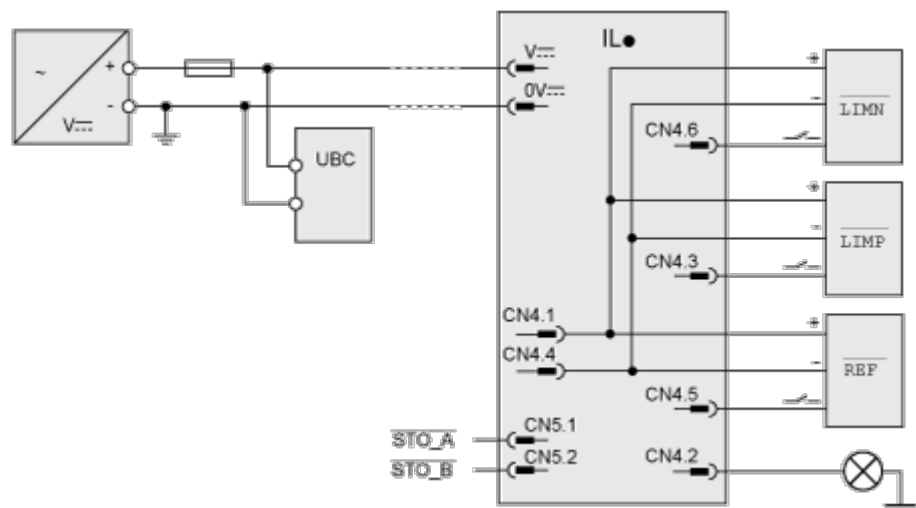
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\varnothing = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 138.9 mm/5.47 in.
- D 8.00 mm/0.31 in.

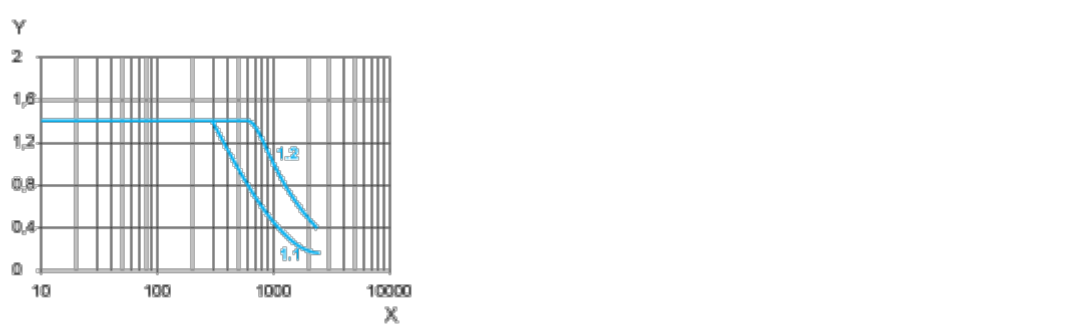
Connections and Schema

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