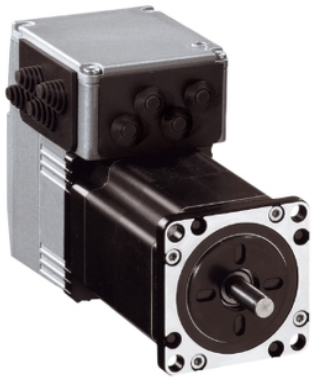
Product data sheet
Characteristics

ILS2D572PB1A0
integrated drive ILS with stepper motor - 24..48 V - DeviceNet - 3.5 A

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 48 V
Network type	DC
Communication interface	DeviceNet, integrated
Length	4.56 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	1000 rpm 48 V 500 rpm 24 V
Nominal torque	7.97 lbf.in (0.9 N.m)
Holding torque	7.97 lbf.in (0.9 N.m)

Complementary

Transmission rate	125, 250, 500 kbauds
Mounting support	Flange
Motor flange size	2.24 in (57 mm)
Number of motor stacks	2
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
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	0.25 in (6.35 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Maximum switching current	100 MA per output 200 mA total
Protection type	Overload of output voltage Short circuit of the output voltage Safe torque off
Peak stall torque	7.97 lbf.in (0.9 N.m)
Continuous stall torque	7.97 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
Net weight	3.53 lb(US) (1.6 kg)

Environment

Standards	EN/IEC 61800-3 EN/IEC 50178 IEC 60072-1 EN 50347 IEC 61800-3, Ed 2 EN 61800-3 : 2001-02 EN 61800-3:2001, second environment
Product certifications	TÜV CUL UL
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)
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
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	Shaft bushing IP41 EN/IEC 60034-5 Total except shaft bushing IP54 EN/IEC 60034-5

Ordering and shipping details

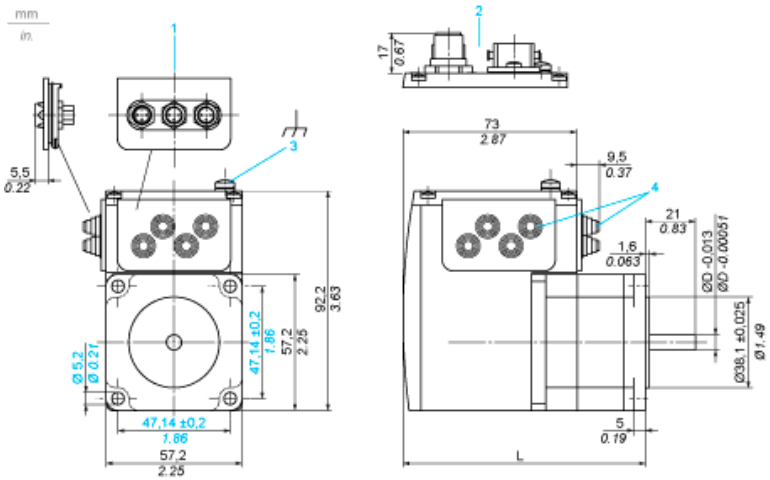
Category	18288 - LEXIUM INTEGRATED DRIVES II
Discount Schedule	PC56
GTIN	03389119227940
Package weight(Lbs)	2.39 kg (5.28 lb(US))
Returnability	No
Country of origin	DE

Contractual warranty

Warranty	18 months

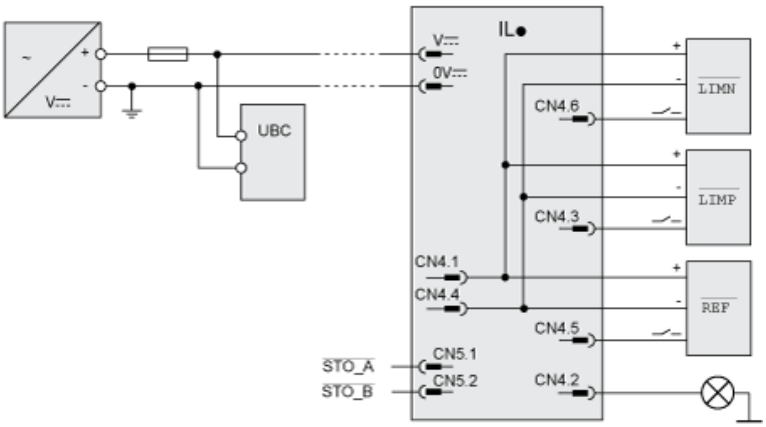
Integrated Drive

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.

Connection Example with 4 I/O Signals



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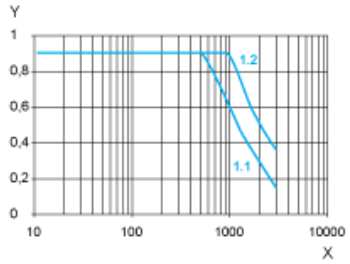
Torque Characteristics



X Speed of rotation in rpm
Y Torque in Nm
1.1 Max. torque at 24 V
1.2 Max. torque at 48 V