Product data sheet

Specifications





(!) Discontinued

integrated drive ILS with stepper motor - 24..48 V - Ethernet Powerlink - 5 A

ILS2P852PB1F0

! Discontinued on: Mar 31, 2023

! To be end-of-service on: Dec 31, 2026

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	Ethernet Powerlink, Integrated
Length	8.56 in (217.3 mm)
Winding Type	Medium speed of rotation and medium torque
Electrical Connection	Printed circuit board connector
Holding Brake	With
Gear Box Type	Without
Nominal Speed	180 rpm 24 V 360 rpm 48 V
Nominal Torque	35.40 lbf.in (4 N.m)
Holding Torque	53.10 lbf.in (6 N.m) holding brake 35.40 lbf.in (4 N.m)

Complementary

Transmission Rate	100 Mbits
Mounting Support	Flange
Motor Flange Size	3.35 in (85 mm)
Number Of Motor Stacks	2
Centring Collar Diameter	2.36 in (60 mm)
Centring Collar Depth	0.08 in (2 mm)
Number Of Mounting Holes	4
Mounting Holes Diameter	0.26 in (6.5 mm)

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

Circle Diameter Of The Mounting Holes	3.90 in (99 mm)
Feedback Type	Index pulse
Shaft End	Untapped
Second Shaft	Without second shaft end
Shaft Diameter	0.47 in (12 mm)
Shaft Length	1.18 in (30 mm)
Supply Voltage Limits	1855 V
Current Consumption	5000 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	-34.5 V
Voltage State 1 Guaranteed	1530 V
Discrete Input Current	10 mA at 24 V safety input 2 mA at 24 V 24 V signal interface
Discrete Output Voltage	2325 V
Maximum Switching Current	100 mA per output 200 mA total
Protection Type	Short circuit of the output voltage Overload of output voltage Safe torque off
Peak Stall Torque	35.40 lbf.in (4 N.m)
Continuous Stall Torque	35.40 lbf.in (4 N.m)
Speed Feedback Resolution	20000 points/turn
Accuracy Error	+/- 6 arc min
Rotor Inertia	2.4 kg.cm ²
Maximum Mechanical Speed	
	3000 rpm
Maximum Radial Force Fr	3000 rpm 100 N
Maximum Radial Force Fr Maximum Axial Force Fa	
	100 N 170 N tensile force)
Maximum Axial Force Fa	100 N 170 N tensile force) 30 N force pressure)
Maximum Axial Force Fa Service Life In Hours	100 N 170 N tensile force) 30 N force pressure) 20000 h bearing
Maximum Axial Force Fa Service Life In Hours Brake Pull-In Power	100 N 170 N tensile force) 30 N force pressure) 20000 h bearing 22 W
Maximum Axial Force Fa Service Life In Hours Brake Pull-In Power Brake Release Time	100 N 170 N tensile force) 30 N force pressure) 20000 h bearing 22 W 40 ms
Maximum Axial Force Fa Service Life In Hours Brake Pull-In Power Brake Release Time Brake Application Time	100 N 170 N tensile force) 30 N force pressure) 20000 h bearing 22 W 40 ms 20 ms

Environment

Standards EN/IEC 61800-3

EN 50347 EN/IEC 50178 IEC 61800-3, Ed 2 IEC 60072-1

EN 61800-3:2001, second environment EN 61800-3:2001-02

Product Certifications	cUL UL TÜV
Ambient Air Temperature For Operation	104131 °F (4055 °C) with power derating of 2 % per °C) 32104 °F (040 °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 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	3606485189727
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.09 in (10.4 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	14.37 in (36.5 cm)
Package 1 Weight	11.24 lb(US) (5.1 kg)

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

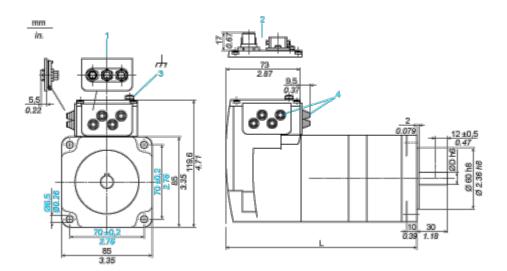
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Weee Circularity Profile	· · · · · · · · · · · · · · · · · · ·

Dimensions Drawings

Integrated Drive with Holding Brake

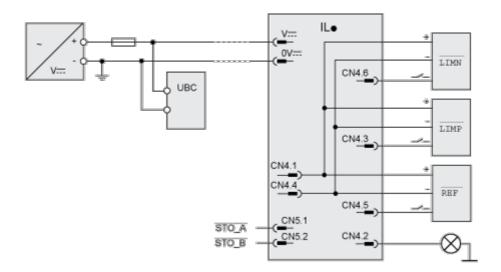
Dimensions



- 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 217.3 mm/8.55 in.
- D 12 mm/0.47 in.

Connections and Schema

Connection Example with 4 I/O Signals

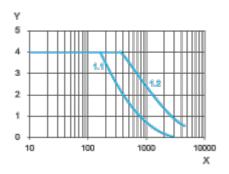


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Performance Curves

Torque Characteristics



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