



integrated drive ILS with stepper motor - 24..48 V - EtherNet/IP - 5 A

ILS2K852PB1F0

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3606485204987

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
Network Number Of Phases	Single phase
[Us] Rated Supply Voltage	24 V 48 V
Network Type	DC
Communication Interface	Ethernet/IP, integrated
Length	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 at 24 V 360 rpm at 48 V
Nominal Torque	4 N.m
Holding Torque	6 N.m holding brake 4 N.m

Complementary

Transmission Rate	125, 250, 500 kbauds
Mounting Support	Flange
Motor Flange Size	85 mm
Number Of Motor Stacks	2
Centring Collar Diameter	60 mm
Centring Collar Depth	2 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	6.5 mm
Circle Diameter Of The Mounting Holes	99 mm

Feedback Type	Index pulse
Shaft End	Untapped
Second Shaft	Without second shaft end
Shaft Diameter	12 mm
Shaft Length	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 for safety input 2 mA at 24 V for 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 Safe torque off Overload of output voltage
Peak Stall Torque	4 N.m
Continuous Stall Torque	4 N.m
Speed Feedback Resolution	20000 points/turn
Accuracy Error	+/- 6 arc min
Rotor Inertia	2.4 kg.cm²
Maximum Mechanical Speed	3000 rpm
Maximum Radial Force Fr	100 N
Maximum Axial Force Fa	170 N (tensile force) 30 N (force pressure)
Service Life In Hours	20000 h bearing
Brake Pull-In Power	22 W
Brake Release Time	40 ms
Brake Application Time	20 ms
Marking	CE
Type Of Cooling	Natural convection

Environment

Standards IEC 5034

IEC 50347 IEC 60072-1 EN 61800-3 : 2001-02 IEC 61800-3 IEC 50178 IEC 61800-3, Ed 2

EN 61800-3:2001, second environment

Product Certifications	UL TÜV cUL
Ambient Air Temperature For Operation	4055 °C (with power derating of 2 % per °C) 040 °C (without derating)
Permissible Ambient Air Temperature Around The Device	105 °C power amplifier 110 °C motor
Ambient Air Temperature For Storage	-2570 °C
Operating Altitude	<= 1000 m without derating
Relative Humidity	1585 % without condensation
Vibration Resistance	20 m/s² (f= 10500 Hz) 10 cycles conforming to IEC 60068-2-6
Shock Resistance	150 m/s² 1000 shocks conforming to 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.4 cm
Package 1 Width	18.0 cm
Package 1 Length	36.5 cm
Package 1 Weight	4.9 kg

Contractual warranty

Warranty 18 months

Sustainability Screen 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

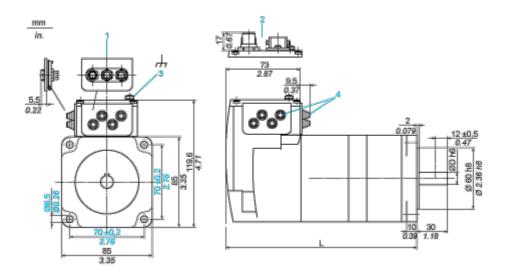
Certifications & Standards

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
Circularity Profile	End of Life Information

Dimensions Drawings

Integrated Drive with Holding Brake

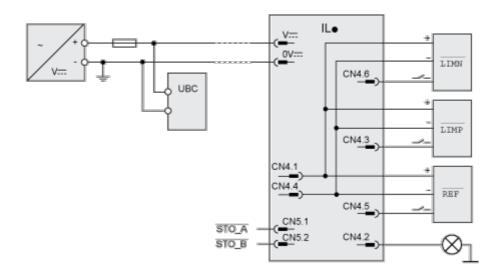
Dimensions



- 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

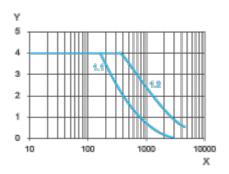


Product datasheet

ILS2K852PB1F0

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