Product data sheet

Specifications





integrated drive ILS with stepper motor - 24..36 V - pulse/direction 24 V - 5 A

ILS1U853PB1A0

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 1,150.00 USD

Main

Lexium integrated drive
Motion integrated drive
ILS
3-phase stepper motor
6
Single phase
36 V 24 V
DC
Pulse/direction 24 V, Integrated
7.90 in (200.6 mm)
Medium speed of rotation and medium torque
Printed circuit board connector
Without
Without
120 rpm 36 V 60 rpm 24 V
53.10 lbf.in (6 N.m)
53.10 lbf.in (6 N.m)

Complementary

Mounting Support	Flange
Motor Flange Size	3.35 in (85 mm)
Number Of Motor Stacks	3
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)
Circle Diameter Of The Mounting Holes	3.90 in (99 mm)
Feedback Type	Index pulse
Shaft End	Untapped

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

Without second shaft end
0.55 in (14 mm)
1.18 in (30 mm)
1840 V
5000 mA maximum continuous
10 A
4 signals (each be used as input or output)
-34.5 V
1530 V
10 mA at 24 V safety input
2325 V
100 mA per output 200 mA total
Short circuit of the output voltage Overload of output voltage Safe torque off
53.10 lbf.in (6 N.m)
53.10 lbf.in (6 N.m)
1.8°, 0.9°, 0.72°, 0.36°, 0.18°, 0.09°, 0.072°, 0.036° 200, 400, 500, 1000, 2000, 4000, 5000, 10000 steps
+/- 6 arc min
3.3 kg.cm ²
1000 rpm
110 N
170 N tensile force) 30 N force pressure)
20000 h bearing
CE
Natural convection
10.36 lb(US) (4.7 kg)

Environment

Standards	IEC 61800-3 EN 61800-3:2001, second environment IEC 60072-1 IEC 50347 EN 61800-3 : 2001-02 IEC 50178 IEC 61800-3, Ed 2
Product Certifications	UL cUL TÜV
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	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 IEC 60068-2-6
Shock Resistance	150 m/s² 1000 shocks 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

Ordering and shipping details

Category	US1PC5618288
Discount Schedule	PC56
Gtin	3389119227667
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.66 in (22 cm)
Package 1 Width	7.68 in (19.5 cm)
Package 1 Length	15.75 in (40 cm)
Package 1 Weight	12.78 lb(US) (5.799 kg)
Unit Type Of Package 2	\$06
Number Of Units In Package 2	9
Package 2 Height	28.94 in (73.5 cm)
Package 2 Width	23.62 in (60 cm)
Package 2 Length	31.50 in (80 cm)
Package 2 Weight	129.85 lb(US) (58.9 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen

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



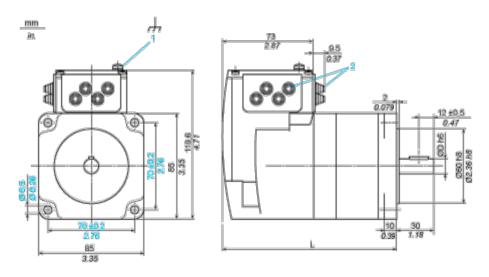
Certifications & Standards

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
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

Dimensions Drawings

Integrated Drive without Holding Brake

Dimensions

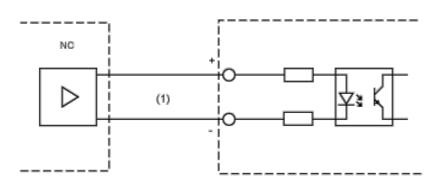


- 1 Earth (ground) terminal
- 2 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 200.6 mm/7.90 in.
- D 14 mm/0.55 in.

Connections and Schema

Multifunction Interface

Input Wiring Diagram

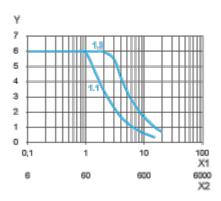


(1) Opto-isolated signals

The reference pulses are supplied via two of the signal inputs, either as pulse/ direction signals or as A/B signals. The other signal inputs have the functions "power amplifier enable/pulse blocking" and "step size switching/PWM motor current control".

Performance Curves

Torque Characteristics



- X1 Frequency in kHz
- X2 Speed of rotation in rpm
- Y Torque in Nm
- 1.1 Max. torque at 24 V
- 1.2 Max. torque at 36 V