Product data sheet

Specifications





integrated drive ILS with stepper motor - 24..36V- pulse/direction w/ o RS422- 5A

ILS1V851PB1A0

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

Price*: 1,050.00 USD

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	36 V 24 V	
network type	DC	
Communication interface	Pulse/direction 5 V without RS422, Integrated	
Length	5.5 in (140.6 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	200 rpm 24 V 400 rpm 36 V	
Nominal torque	17.7 lbf.in (2 N.m)	
Holding torque	17.7 lbf.in (2 N.m)	

Complementary

Mounting Support	Flange	
Motor flange size	3.3 in (85 mm)	
Number of motor stacks	1	
Centring collar diameter	2.4 in (60 mm)	
Centring collar depth	0.08 in (2 mm)	
Number of mounting holes	4	
Mounting holes diameter	0.3 in (6.5 mm)	
Circle diameter of the mounting holes	3.9 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.

Second shaft	Without second shaft end	
Shaft diameter	0.5 in (12 mm)	
Shaft length	1.2 in (30 mm)	
Supply voltage limits	1840 V	
Current consumption	5000 mA maximum continuous	
Associated fuse rating	10 A	
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	
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	17.7 lbf.in (2 N.m)	
Continuous stall torque	17.7 lbf.in (2 N.m)	
Speed feedback resolution	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	
Accuracy error	+/- 6 arc min	
Rotor inertia	1.1 kg.cm ²	
Maximum mechanical speed	2000 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	
marking	CE	
Type of cooling	Natural convection	
Net Weight	5.7 lb(US) (2.6 kg)	

Environment

Standards	IEC 50347 IEC 61800-3, Ed 2 IEC 50178 IEC 60072-1 IEC 61800-3 EN 61800-3 : 2001-02 EN 61800-3:2001, second environment	
Product Certifications	UL cUL TÜV	
Ambient air temperature for operation	122149 °F (5065 °C) with power derating of 2 % per °C) 32122 °F (050 °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	3389119227735	
Returnability	No	
Country of origin	DE	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.1 in (10.5 cm)
Package 1 Width	7.5 in (19.0 cm)
Package 1 Length	15.4 in (39.0 cm)
Package 1 Weight	6.6 lb(US) (3.0 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
Pvc Free

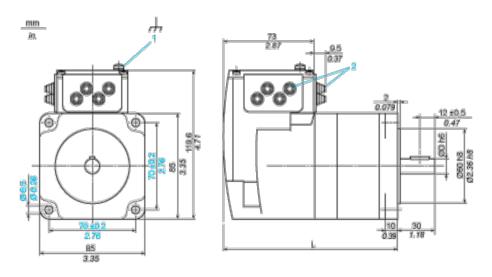
Certifications & Standards

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 defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Integrated Drive without Holding Brake

Dimensions

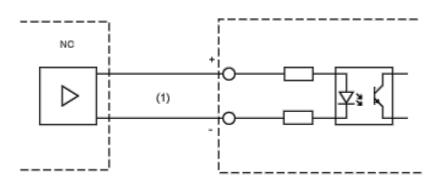


- 1 Earth (ground) terminal
- 2 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- L 140.6 mm/5.53 in.
- D 12 mm/0.47 in.

Connections and Schema

Multifunction Interface

Input Wiring Diagram

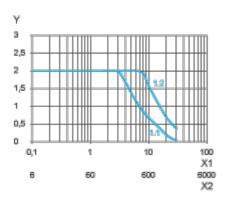


(1) Opto-isolated signals

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