Product datasheet

Specifications





brushless DC motor, Lexium ILA ILE ILS, 24 to 36V, RS485 interface, 174mm, 54:1

ILE1R661PB1A6

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Main

mann	
Range of product	Lexium integrated drive
Product or component type	Motion integrated drive
Device short name	ILE
Motor type	Brushless DC motor
Number of motor poles	6
Network number of phases	Single phase
[Us] rated supply voltage	36 V 24 V
network type	DC
Communication interface	RS485, integrated
Length	229 mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Printed circuit board connector
Holding brake	Without
Gear box type	Worm gear, 3 stages
Reduction ratio	54:1 (1715:32)
Nominal speed	75 rpm at 24 V 75 rpm at 36 V
Nominal torque	5.8 N.m at 24 V 6 N.m at 36 V

Complementary

Transmission rate	9.6, 19.2 and 38.4 kbauds
mounting support	Flange
Motor flange size	66 mm
Number of motor stacks	1
Centring collar diameter	36 mm
Number of mounting holes	2
Mounting holes diameter	4.4 mm
Feedback type	BLDC encoder
Shaft end	Hole
Second shaft	Without second shaft end

1840 V
7000 mA peak 5500 mA maximum continuous
10 A
4 signals (each be used as input or output)
-34.5 V
1530 V
10 mA at 24 V on/STO_A for safety input 3 mA at 24 V on/STO_B for safety input 2 mA at 24 V for 24 V signal interface
2325 V
100 mA per output 200 mA total
Safe torque off Overload of output voltage Short circuit of the output voltage
0.1 A (power stage disabled) 6.8 A at 24 V 3.8 A at 36 V
45 W at 24 V 47 W at 36 V
11.66 N.m at 36 V 8.42 N.m at 24 V
7.9 N.m
6.5 N.m
12 points/turn motor 0.56° gearbox output
+/- 1 point
1°
430 kg.cm ²
93 rpm
200 N
80 N
6000 h bearing
CE
Natural convection
2.3 kg

Environment

Standards	IEC 61800-3, Ed 2 EN 61800-3:2001, second environment IEC 60072-1 EN 61800-3 : 2001-02 IEC 50178 IEC 61800-3 IEC 50347	
Product certifications	UL TÜV cUL	
Ambient air temperature for operation	5065 °C (with power derating of 2 % per °C) 050 °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/s ² (f= 10500 Hz) 10 cycles conforming to IEC 60068-2-6
Shock resistance	150 m/s ² 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	9.0 cm
Package 1 Width	19.0 cm
Package 1 Length	38.5 cm
Package 1 Weight	2.25 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



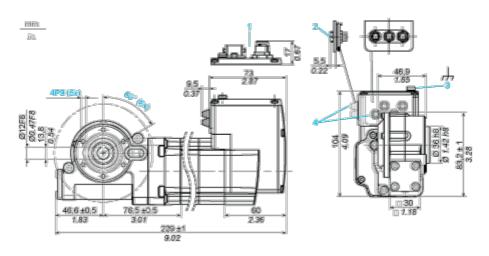
Certifications & Standards

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 Worm Gear

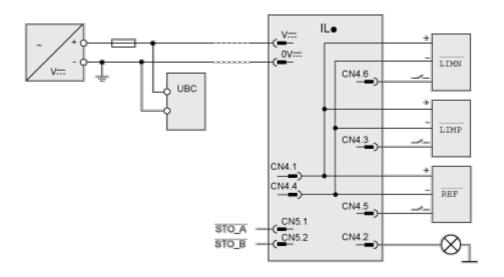
Dimensions



- 1 Option: industrial connectors
- 2 Accessories: I/O signal insert with industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in}.$

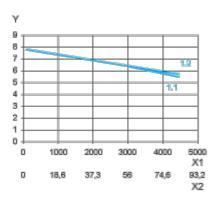
Connections and Schema

Connection Example with 4 I/O Signals



Performance Curves

Torque Characteristics



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