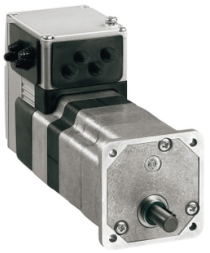
Product datasheet

Specifications



brushless dc motor 24..36 V - Profibus DP interface - L = 122 mm - w/o gearbox

ILE1B661PB1A0

Discontinued on: 17 Jul 2023

End-of-service on: 15 Nov 2023

Discontinued

Price: 21,663.24 ZAR

Main

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	24 V 36 V
Network Type	DC
Communication Interface	Profibus DP, integrated
Length	122 mm
Winding Type	Medium speed of rotation and medium torque
Electrical Connection	Printed circuit board connector
Holding Brake	Without
Gear Box Type	Without
Reduction Ratio	1:1
Nominal Speed	4000 rpm at 24 V 4800 rpm at 36 V
Nominal Torque	0.175 N.m at 24 V 0.24 N.m at 36 V

Complementary

Transmission Rate	9.6, 19.2, 45.45, 93.75, 187.5, 500, 1500, 3000, 6000 and 12000 kbauds
Mounting Support	Flange
Motor Flange Size	66 mm
Number Of Motor Stacks	1
Centring Collar Diameter	40 mm
Centring Collar Depth	2 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	4.4 mm

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Circle Diameter Of The Mounting Holes	73.54 mm
Feedback Type	BLDC encoder
Shaft End	Untapped
Second Shaft	Without second shaft end
Shaft Diameter	8 mm
Shaft Length	25 mm
Supply Voltage Limits	18…40 V
Current Consumption	7000 mA peak 5500 mA maximum continuous
Associated Fuse Rating	10 A
Input/Output Type	4 signals (each be used as input or output)
Voltage State 0 Guaranteed	-3...4.5 V
Voltage State 1 Guaranteed	15...30 V
Discrete Input Current	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
Discrete Output Voltage	23...25 V
Maximum Switching Current	100 mA per output 200 mA total
Protection Type	Overload of output voltage Short circuit of the output voltage Safe torque off
Maximum Supply Current	0.06 A at 36 V (power stage disabled) 0.1 A at 24 V (power stage disabled) 4.7 A at 24 V 5.1 A at 36 V
Nominal Output Power	117 W at 36 V 74 W at 24 V
Peak Stall Torque	0.26 N.m at 24 V 0.36 N.m at 36 V
Continuous Stall Torque	0.27 N.m
Detent Torque	0.08 N.m
Speed Feedback Resolution	12 points/turn
Accuracy Error	+/- 1 °
Rotor Inertia	0.149 kg.cm²
Maximum Mechanical Speed	5000 rpm
Maximum Radial Force Fr	80 N
Maximum Axial Force Fa	30 N (force pressure) 30 N (tensile force)
Service Life In Hours	20000 h bearing
Marking	CE
Type Of Cooling	Natural convection
Net Weight	1.4 kg

Environment

Standards	EN 50347 IEC 60072-1 EN/IEC 50178 EN 61800-3:2001, second environment IEC 61800-3, Ed 2 EN/IEC 61800-3 EN 61800-3 : 2001-02
Product Certifications	cUL TÜV UL
Ambient Air Temperature For Operation	50…65 °C (with power derating of 2 % per °C) 0…50 °C (without derating)
Permissible Ambient Air Temperature Around The Device	105 °C power amplifier 110 °C motor
Ambient Air Temperature For Storage	-25…70 °C
Operating Altitude	<= 1000 m without derating
Relative Humidity	15…85 % without condensation
Vibration Resistance	20 m/s² (f= 10…500 Hz) 10 cycles conforming to EN/IEC 60068-2-6
Shock Resistance	150 m/s² 1000 shocks conforming to 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.5 cm
Package 1 Width	17 cm
Package 1 Length	24.5 cm
Package 1 Weight	1.702 kg
Unit Type Of Package 2	S04
Number Of Units In Package 2	8
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	14.868 kg
Package 3 Height	30.0 cm

Contractual warranty

Warranty	18 months

Sustainability

Green Premium^{TM} label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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	

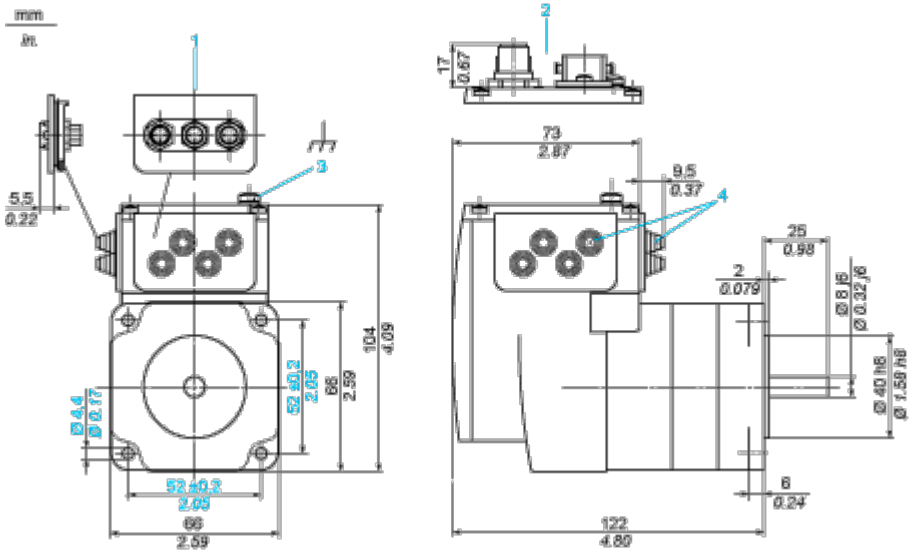
Certifications & Standards

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

Dimensions Drawings

Integrated Drive without Gearing

Dimensions



1 Accessories: I/O signal insert with industrial connectors

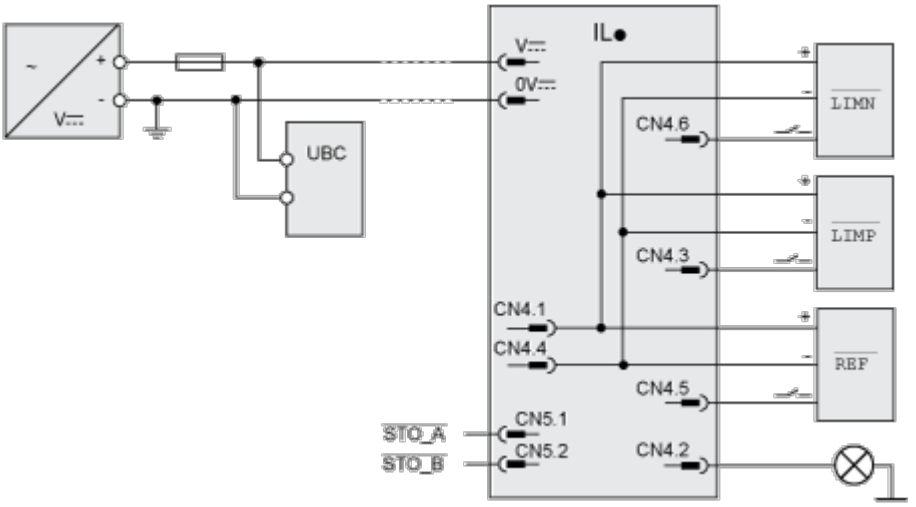
2 Option: industrial connectors

3 Earth (ground) terminal

4 Accessories: cable entries Ø = 3 ... 9 mm/0.12 ... 0.35 in.

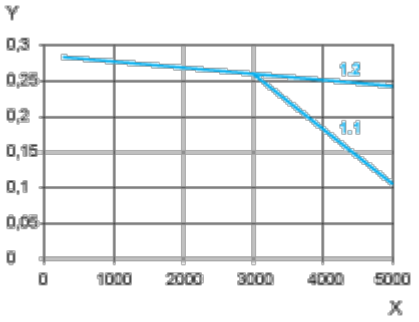
Connections and Schema

Connection Example with 4 I/O Signals



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 36 V