Product data sheet

Specification





brushless dc motor 24..48 V - EtherCAT interface - L = 174 mm - 54:1

ILE2E661PB1A6

! Discontinued on: Dec 1, 2020



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
Phase	Single phase
[Us] Rated Supply Voltage	48 V 24 V
Network Type	DC
Communication Interface	EtherCAT, Integrated
Length	9.02 in (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 24 V 75 rpm 48 V
Nominal Torque	53.10 lbf.in (6 N.m) 24 V 53.10 lbf.in (6 N.m) 48 V

Complementary

-	
Transmission Rate	100 Mbits
Mounting Support	Flange
Motor Flange Size	2.60 in (66 mm)
Number Of Motor Stacks	1
Centring Collar Diameter	1.42 in (36 mm)
Number Of Mounting Holes	2
Mounting Holes Diameter	0.17 in (4.4 mm)
Feedback Type	BLDC encoder
Shaft End	Hole
Second Shaft	Without second shaft end

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

Supply Voltage Limits	1855.2 V
Current Consumption	7000 mA peak 5500 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 on/STO_A safety input 3 mA at 24 V on/STO_B safety input 2 mA at 24 V 24 V signal interface
Discrete Output Voltage	2325 V
Maximum Switching Current	100 mA per output 200 mA total
Protection Type	Overload of output voltage Safe torque off Short circuit of the output voltage
Maximum Supply Current	0.1 A power stage disabled) 6.8 A 24 V 2.7 A 48 V
Nominal Output Power	45 W 24 V 47 W 48 V
Peak Stall Torque	123.29 lbf.in (13.93 N.m) 24 V 123.29 lbf.in (13.93 N.m) 48 V
Continuous Stall Torque	70.81 lbf.in (8 N.m)
Detent Torque	57.53 lbf.in (6.5 N.m)
Speed Feedback Resolution	12 points/turn motor 0.56° gearbox output
Accuracy Error	+/- 1 point
Rotor Inertia	430 kg.cm²
Maximum Mechanical Speed	93 rpm
Maximum Radial Force Fr	200 N
Maximum Axial Force Fa	80 N
Service Life In Hours	6000 h bearing
Marking	CE
Type Of Cooling	Natural convection
Net Weight	5.07 lb(US) (2.3 kg)

Environment

Standards	EN 50347 EN 61800-3 : 2001-02		
	EN/IEC 61800-3		
	IEC 61800-3, Ed 2		
	IEC 60072-1		
	EN 61800-3:2001, second environment		
	EN/IEC 50178		
Product Certifications	cUL		
	TÜV		
	UL		
Ambient Air Temperature For	104131 °F (4055 °C) with power derating of 2 % per °C)		
Operation	32104 °F (040 °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 EN/IEC 60068-2-6
Shock Resistance	150 m/s² 1000 shocks 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

Ordering and shipping details

Category	18288-LEXIUM INTEGRATED DRIVES II
Discount Schedule	PC56
Gtin	03606485188850
Returnability	No
Country Of Origin	DE

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.09 in (10.4 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	14.37 in (36.5 cm)
Package 1 Weight	5.07 lb(US) (2.3 kg)

Contractual warranty

Warranty 18 months

Sustainability Green 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

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

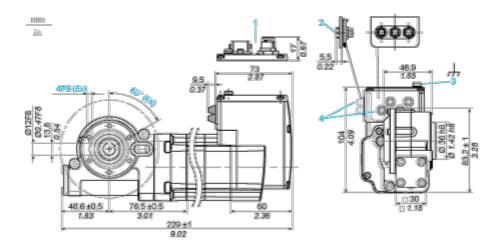
Certifications & Standards

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 with Worm Gear

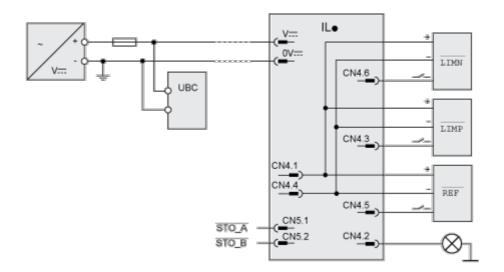
Dimensions



- 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

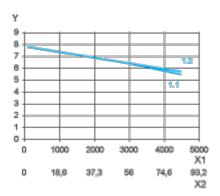


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Performance Curves

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 48 V