Product data sheet

Specifications





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

ILE2D661PB1A6

() Discontinued on: Aug 7, 2023

() To be end-of-service on: Dec 31, 2026

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

Main

Im integrated drive	
hless DC motor	
e phase	
e phase	
ceNet, Integrated	
in (229 mm)	
um speed of rotation and medium torque	
Printed circuit board connector	
put	
n gear, 3 stages	
(1715:32)	
(
m 24 V m 48 V	

Complementary

Transmission Rate	125, 250, 500 kbauds	
Mounting Support	Flange	
Motor flange size	2.6 in (66 mm)	
Number of motor stacks	1	
Centring collar diameter	1.4 in (36 mm)	
Number of mounting holes	2	
Mounting holes diameter	0.2 in (4.4 mm)	
Feedback type	BLDC encoder	

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

Shaft end	Hole	
Second shaft	Without second shaft end	
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	Short circuit of the output voltage Overload of output voltage Safe torque off	
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	70.8 lbf.in (8 N.m)	
Detent torque	57.5 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.cm ²	
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

IEC 60072-1 IEC 61800-3, Ed 2 EN/IEC 61800-3 EN 61800-3 : 2001-02 EN 50347 EN/IEC 50178 EN 61800-3:2001, second environment

Product Certifications	TÜV UL cUL	
Ambient air temperature for operation	104131 °F (4055 °C) with power derating of 2 % per °C) 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	US1PC5618288	
Discount Schedule	PC56	
GTIN	3389119222723	
Returnability	No	
Country of origin	DE	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.5 in (9.0 cm)
Package 1 Width	7.5 in (19.0 cm)
Package 1 Length	15.2 in (38.5 cm)
Package 1 Weight	4.96 lb(US) (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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

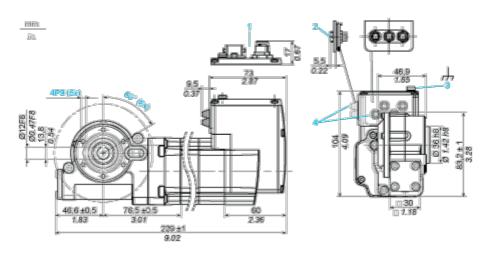
Certifications & Standards

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 with Worm Gear

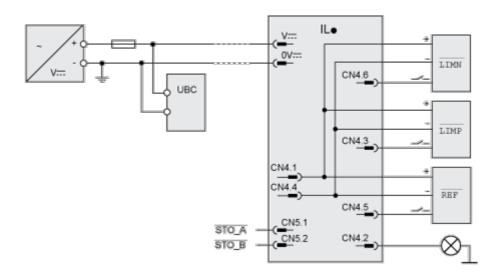
Dimensions



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

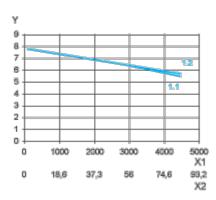
Connections and Schema

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 48 V