



brushless dc motor 24..36 V - CANopen DS301 interface - L = 174 mm - 24:1

ILE1F661PC1A5

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3389119222440

Main

Lexium integrated drive	
Motion integrated drive	
ILE	
Brushless DC motor	
6	
Single phase	
36 V 24 V	
DC	
CANopen DS301, integrated	
229 mm	
Medium speed of rotation and medium torque	
Industrial connector	
Without	
Worm gear, 2 stages	
24:1 (525:22)	
168 rpm at 24 V 168 rpm at 36 V	
2.5 N.m at 24 V 3.5 N.m at 36 V	

Complementary

Transmission rate	50, 100, 125, 250, 500, 800 and 1000 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

Supply voltage limits	1840 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	-34.5 V
Voltage state 1 guaranteed	1530 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	2325 V
Maximum switching current	100 mA per output 200 mA total
Protection type	Safe torque off Overload of output voltage Short circuit of the output voltage
Maximum supply current	5.1 A at 36 V 0.1 A (power stage disabled) 6.8 A at 24 V
Nominal output power	45 W at 24 V 61 W at 36 V
Peak stall torque	3.74 N.m at 24 V 5.18 N.m at 36 V
Continuous stall torque	4.2 N.m
Detent torque	2.9 N.m
Speed feedback resolution	12 points/turn motor 1.26° gearbox output
Accuracy error	+/- 1 point
Maximum torsional backlash	1.5 °
Rotor inertia	90 kg.cm²
Maximum mechanical speed	186 rpm
Maximum radial force Fr	200 N
Maximum axial force Fa	80 N
Service life in hours	3000 h bearing
marking	CE
Type of cooling	Natural convection
Net weight	2.3 kg

Environment

Standards	IEC 61800-3, Ed 2 IEC 61800-3 EN 61800-3:2001, second environment IEC 60072-1 IEC 50347 EN 61800-3:2001-02
	EN 61800-3 : 2001-02 IEC 50178
	120 30170
Product certifications	TÜV
	cUL
	UL
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/s² (f= 10500 Hz) 10 cycles conforming to IEC 60068-2-6
Shock resistance	150 m/s² 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

Logistical informations

Country of origin

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

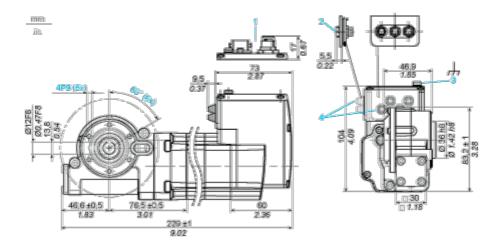
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

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Dimensions Drawings

Integrated Drive with Worm Gear

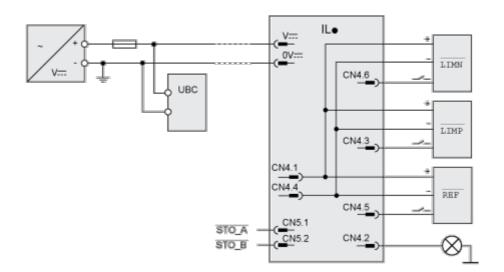
Dimensions



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

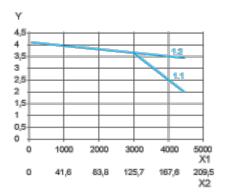
Connections and Schema

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