ILE1F661PC1A8

brushless dc motor 24..36 V - CANopen DS301 interface - L = 174 mm - 115:1



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 inter- face	Integrated CANopen DS301
Length	229 mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Industrial connector
Holding brake	Without
Gear box type	Worm gear, 3 stages
Reduction ratio	115:1 (3675:32)
Nominal speed	35 rpm at 36 V 35 rpm at 24 V
Nominal torque	10.6 N.m at 36 V 10.2 N.m at 24 V

Complementary

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	5500 mA (maximum continuous) 7000 mA (peak)
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	2 mA at 24 V for 24 V signal interface <= 3 mA at 24 V on/STO_B for safety input <= 10 mA at 24 V on/STO_A for safety input
Discrete output voltage	2325 V
Maximum switching current	200 mA total 100 mA per output
Protection type	Overload of output voltage Safe torque off Short circuit of the output voltage

Supply current	Supply: 3.8 A, 36 V	
	Supply: 6.8 A, 24 V	
	Supply: 0.1 A, power stage disabled	
Nominal output power	39 W at 36 V	
	37 W at 24 V	
Peak stall torque	20.7 N.m at 36 V	
	14.95 N.m at 24 V	
Continuous stall torque	14 N.m	
Detent torque	16.7 N.m	
Speed feedback resolution	0.26° (gearbox output)	
	12 points/turn (motor)	
Accuracy error	+/- 1 point	
Torsional backlash	<= 1 °	
Rotor inertia	1980 kg.cm²	
Maximum mechanical speed	44 rpm	
Maximum radial force Fr	200 N	
Maximum axial force Fa	80 N	
Service life in hours	9000 h of bearing :	
Marking	CE	
Type of cooling	Natural convection	
Product weight	2.3 kg	

Environment

Standards	EN 50347 EN 61800-3:2001, second environment EN 61800-3: 2001-02 EN/IEC 50178 EN/IEC 61800-3 IEC 60072-1 IEC 61800-3, Ed 2
Product certifications	CUL TÜV UL
Ambient air temperature for operation	050 °C without derating > 5065 °C with power derating of 2 % per °C
Permissible ambient air temperature around the device	110 °C (motor) 105 °C (power amplifier)
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) for 10 cycles conforming to EN/IEC 60068-2-6
Shock resistance	150 m/s² for 1000 shocks conforming to EN/IEC 60068-2-29
IP degree of protection	IP54 total except shaft bushing conforming to EN/IEC 60034-5 IP41 shaft bushing conforming to EN/IEC 60034-5

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 0922 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold

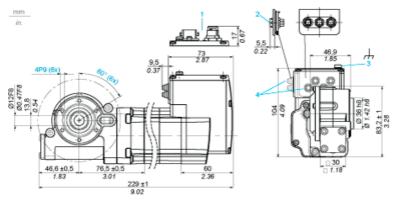


Product data sheet Dimensions Drawings

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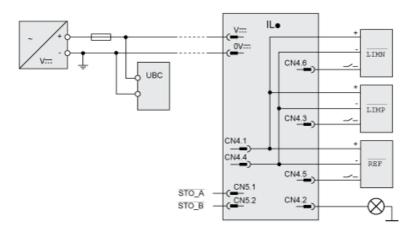
Integrated Drive with Worm Gear

Dimensions



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

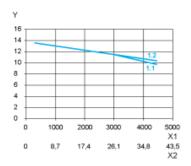
Connection Example with 4 I/O Signals



Product data sheet **Performance Curves**

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Torque Characteristics



- 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