

## 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	24 V 36 V
Network type	DC
Communication interface	Profibus DP, Integrated
Length	6.85 in (174 mm)
Winding type	Medium speed of rotation and medium torque
Electrical Connection	Printed circuit board connector
Holding brake	Without
Gear box type	Straight teeth gear, 4 stages
Reduction ratio	54:1 (490:9)
Nominal speed	73 rpm 24 V 88 rpm 36 V
Nominal torque	88.51 Lbf.in (10 N.m) 36 V 84.08 lbf.in (9.5 N.m) 24 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	2.60 in (66 mm)
Number of motor stacks	1
Centring collar diameter	0.63 in (16 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.17 in (4.4 mm)
Circle diameter of the mounting holes	2.90 in (73.54 mm)
Feedback type	BLDC encoder
Shaft end	Keyed
Second shaft	Without second shaft end
Shaft diameter	0.39 in (10 mm)
Shaft length	0.98 in (25 mm)
Key width	0.63 in (16 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 safety input 3 MA at 24 V on/STO_B safety input 2 mA at 24 V 24 V signal interface

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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 36 V power stage disabled) 0.1 A 24 V power stage disabled) 3.5 A 36 V 4.3 A 24 V
Nominal output power	73 W 24 V 88 W 36 V
Peak stall torque	111.87 Lbf.in (12.64 N.m) 24 V 154.89 lbf.in (17.5 N.m) 36 V
Continuous stall torque	101.78 lbf.in (11.5 N.m)
Detent torque	29.21 lbf.in (3.3 N.m)
Speed feedback resolution	12 points/turn motor 0.55° gearbox output
Accuracy error	+/- 1 point
Maximum torsional backlash	1 °
Rotor inertia	441 kg.cm <sup>2</sup>
Maximum mechanical speed	92 rpm
Maximum radial force Fr	200 N long-term operation) 200 N short-term operation)
Maximum axial force Fa	10 N long-term operation) 80 N short-term operation)
Service life in hours	2500 H bearing short-term operation 15000 h bearing long-term operation
Marking	CE
Type of cooling	Natural convection
Net Weight	4.08 lb(US) (1.85 kg)

## Environment

Standards	EN/IEC 50178 EN 61800-3 : 2001-02 EN/IEC 61800-3 EN 61800-3:2001, second environment IEC 60072-1 EN 50347 IEC 61800-3, Ed 2
Product Certifications	TÜV CUL UL
Ambient air temperature for operation	122...149 °F (50...65 °C) with power derating of 2 % per °C) 32...122 °F (0...50 °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	-13...158 °F (-25...70 °C)
Operating altitude	<= 3280.84 ft (1000 m) without derating
Relative humidity	15...85 % without condensation
Vibration resistance	20 m/s <sup>2</sup> 10...500 Hz) 10 cycles EN/IEC 60068-2-6
Shock resistance	150 m/s <sup>2</sup> 1000 shocks EN/IEC 60068-2-29
IP degree of protection	Shaft bushing IP41 EN/IEC 60034-5 Total except shaft bushing IP54 EN/IEC 60034-5

## Ordering and shipping details

Category	18288-LEXIUM INTEGRATED DRIVES II
Discount Schedule	PC56
GTIN	3389119222150
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.33 in (11 cm)
Package 1 Width	7.48 in (19 cm)
Package 1 Length	15.55 in (39.5 cm)
Package 1 Weight	5.03 lb(US) (2.281 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	5
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	27.56 lb(US) (12.502 kg)
Package 3 Height	11.81 in (30.0 cm)

## Offer Sustainability

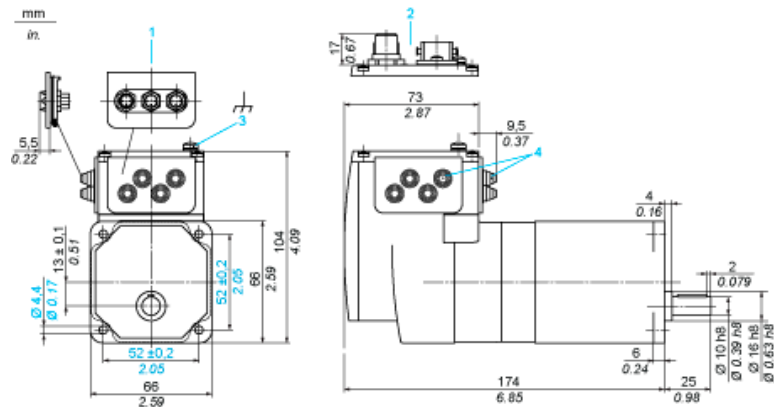
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes

## Contractual warranty

Warranty	18 months
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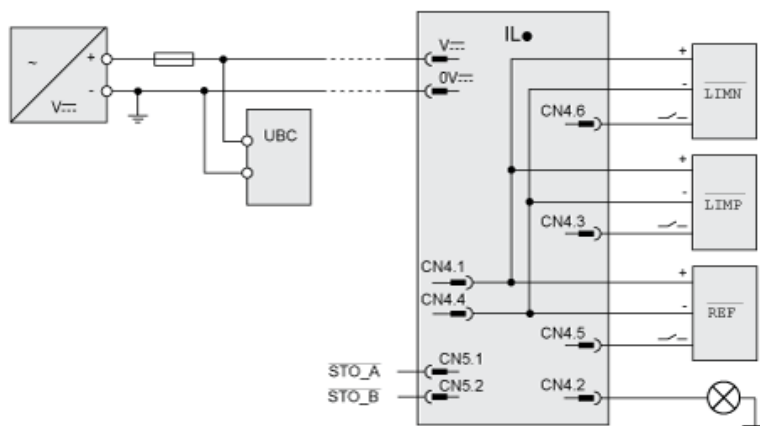
Integrated Drive with Straight Teeth Gear

Dimensions

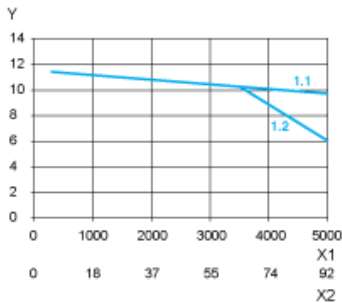


- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries  $\varnothing = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$

Connection Example with 4 I/O Signals



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