

### 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 48 V
Network type	DC
Communication interface	Integrated EtherCAT
Length	140 mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Industrial connector
Holding brake	Without
Gear box type	Without
Reduction ratio	1:1
Nominal speed	3100 rpm at 24 V 5000 rpm at 48 V
Nominal torque	0.5 N.m at 24 V 0.5 N.m at 48 V

### Complementary

Transmission rate	100 Mbits
Mounting support	Flange
Motor flange size	66 mm
Number of motor stacks	2
Centring collar diameter	40 mm
Centring collar depth	2 mm

Number of mounting holes	4
Mounting holes diameter	4.4 mm
Circle diameter of the mounting holes	73.54 mm
Feedback type	BLDC encoder
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	25 mm
Supply voltage limits	18...55.2 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	-3...4.5 V
Voltage state 1 guaranteed	15...30 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	23...25 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
Supply current	Supply: 7 A, 48 V Supply: 0.1 A, power stage disabled Supply: 9.5 A, 24 V
Nominal output power	162 W at 24 V 262 W at 48 V
Peak stall torque	0.8 N.m at 48 V 0.8 N.m at 24 V
Continuous stall torque	0.54 N.m
Detent torque	0.106 N.m
Speed feedback resolution	12 points/turn
Accuracy error	+/- 0.5 °
Rotor inertia	0.34 kg.cm <sup>2</sup>
Maximum mechanical speed	5000 rpm 7000 rpm
Maximum radial force Fr	80 N
Maximum axial force Fa	30 N (force pressure) 30 N (tensile force)
Service life in hours	20000 h of bearing :
Marking	CE
Type of cooling	Natural convection
Product weight	1.75 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	0...40 °C without derating

> 40...55 °C with power derating of 2 % per °C

Permissible ambient air temperature around the device	105 °C (power amplifier) 110 °C (motor)
Ambient air temperature for storage	-25...70 °C
Operating altitude	<= 1000 m without derating
Relative humidity	15...85 % without condensation
Vibration resistance	20 m/s <sup>2</sup> (f = 10...500 Hz) for 10 cycles conforming to EN/IEC 60068-2-6
Shock resistance	150 m/s <sup>2</sup> for 1000 shocks conforming to 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

### Offer Sustainability

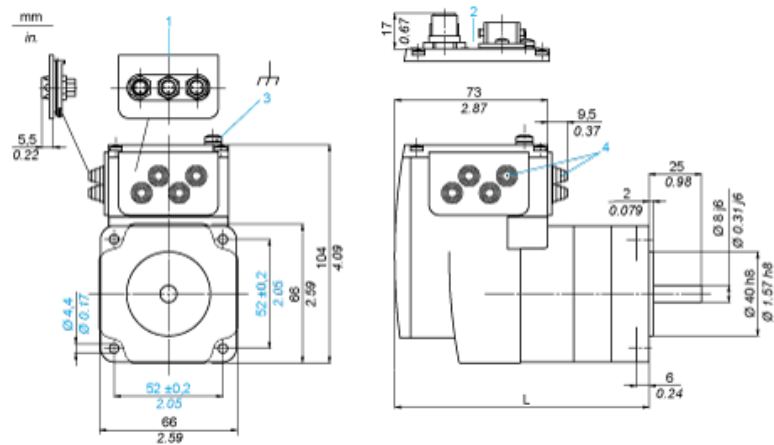
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0910 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">End of Life Information</a>
Product end of life instructions	Available

### Contractual warranty

Warranty period	18 months
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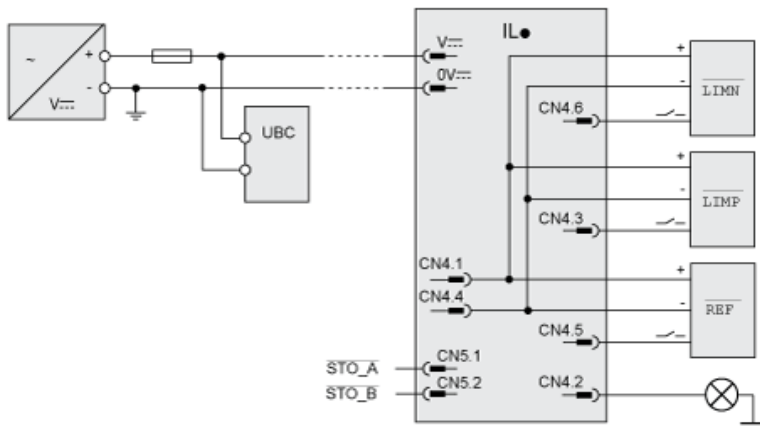
Integrated Drive without Gearing

Dimensions

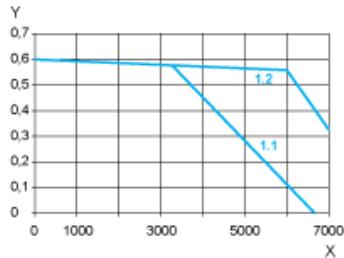


- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries  $\varnothing = 3 \dots 9 \text{ mm} / 0.12 \dots 0.35 \text{ in.}$
- L 140 mm / 4.80 in.

Connection Example with 4 I/O Signals



Torque Characteristics



X Speed of rotation in rpm  
Y Torque in Nm  
1.1 Max. torque at 24 V  
1.2 Max. torque at 48 V