

integrated drive ILA with servo motor - 24..48 V - EtherNet/IP - PCB connector

ILA2K571TB1F0

Main

Range Of Product	Lexium integrated drive
Product Or Component Type	Motion integrated drive
Device Short Name	ILA
Motor Type	AC synchronous servo 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	Ethernet/IP, integrated
Length	190.8 mm
Winding Type	High speed of rotation and medium torque
Electrical Connection	Printed circuit board connector
Holding Brake	With
Gear Box Type	Without
Nominal Speed	5000 rpm at 24 V 7000 rpm at 48 V
Nominal Torque	0.31 N.m
Holding Torque	1.2 N.m holding brake

Complementary

Transmission Rate	125, 250, 500 kbauds
Mounting Support	Flange
Motor Flange Size	57 mm
Number Of Motor Stacks	1
Centring Collar Diameter	50 mm
Centring Collar Depth	1.6 mm
Number Of Mounting Holes	4
Mounting Holes Diameter	5.2 mm
Circle Diameter Of The Mounting Holes	66.6 mm
Feedback Type	Single turn encoder
Shaft End	Untapped

0	
Second Shaft	Without second shaft end
Shaft Diameter	9 mm
Shaft Length	20 mm
Supply Voltage Limits	1855.2 V
Current Consumption	11000 mA peak 7500 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 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 Short circuit of the output voltage Overload of output voltage
Peak Stall Torque	0.45 N.m
Continuous Stall Torque	0.31 N.m
Speed Feedback Resolution	16384 points/turn
Accuracy Error	+/- 0.05 °
Rotor Inertia	0.165 kg.cm ²
Maximum Radial Force Fr	89 N
Maximum Axial Force Fa	104 N (force pressure) 104 N (tensile force)
Service Life In Hours	20000 h bearing
Brake Pull-In Power	10 W
Brake Release Time	14 ms
Brake Application Time	13 ms
Marking	CE
Type Of Cooling	Natural convection
Net Weight	1.4 kg

Environment Standards

Standards	IEC 61800-3 IEC 50178 IEC 61800-3, Ed 2 IEC 60072-1 IEC 50347 EN 61800-3:2001, second environment EN 61800-3: 2001-02
Product Certifications	UL cUL TÜV
Ambient Air Temperature For Operation	4055 °C (with power derating of 2 % per °C) 040 °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	8.0 cm
Package 1 Width	18.5 cm
Package 1 Length	35.5 cm
Package 1 Weight	2.1 kg

Contractual warranty

Warranty 18 months

Sustainability

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

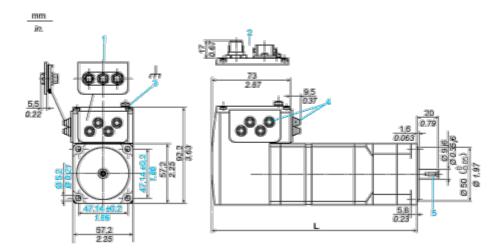
Certifications & Standards

REACh Declaration
Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS declaration
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
End of Life Information
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 Holding Brake

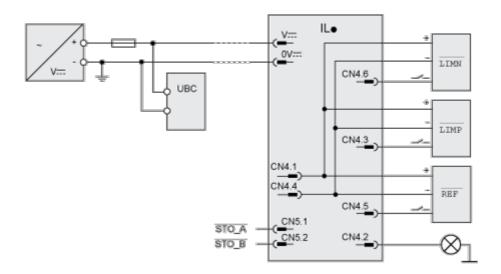
Dimensions



- 1 Accessories: I/O signal insert with industrial connectors
- 2 Option: industrial connectors
- 3 Earth (ground) terminal
- 4 Accessories: cable entries $\emptyset = 3 \dots 9 \text{ mm}/0.12 \dots 0.35 \text{ in.}$
- 5 Centring hole DIN 332 DS M3
- L 190.8 mm/7.51 in.

Connections and Schema

Connection Example with 4 I/O Signals

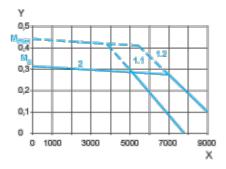


Product data sheet

ILA2K571TB1F0

Performance Curves

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
- 2 Continuous torque