Product data sheet
Characteristics

ILA2K572PB2A0
integrated drive ILA with servo motor - 24..48 V - EtherNet/IP - PCB connector



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	48 V 24 V
Network type	DC
Communication interface	Ethernet/IP, integrated
Length	207.8 Mm
Winding type	Medium speed of rotation and medium torque
Electrical connection	Printed circuit board connector
Holding brake	Without
Gear box type	Without
Nominal speed	1600 rpm at 24 V 3400 rpm at 48 V
Nominal torque	0.78 N.M

Complementary

Transmission rate	125, 250, 500 kbauds
Mounting support	Flange
Motor flange size	57 Mm
Number of motor stacks	2
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	Multi turn encoder
Shaft end	Untapped
Second shaft	Without second shaft end
Shaft diameter	9 Mm
Shaft length	20 Mm
Supply voltage limits	18…55.2 V
Current consumption	7000 mA maximum continuous 8500 mA peak
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 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	Safe torque off Overload of output voltage Short circuit of the output voltage
Peak stall torque	1.62 N.M
Continuous stall torque	0.78 N.M
Speed feedback resolution	16384 points/turn x 4096 turns
Accuracy error	+/- 0.05 °
Rotor inertia	0.173 Kg.Cm²
Maximum radial force Fr	107 N
Maximum axial force Fa	104 N (force pressure) 104 N (tensile force)
Service life in hours	20000 H bearing
Marking	CE
Type of cooling	Natural convection
Net weight	1.7 Kg

Environment

Standards	IEC 61800-3 IEC 60072-1 EN 61800-3:2001, second environment EN 61800-3 : 2001-02 IEC 50178 IEC 50347 IEC 61800-3, Ed 2
Product certifications	TÜV[RETURN]cUL[RETURN]UL
Ambient air temperature for operation	40…55 °C (with power derating of 2 % per °C) 0…40 °C (without derating)
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/s² (f= 10…500 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	8.000 Cm
Package 1 Width	18.500 Cm
Package 1 Length	35.500 Cm
Package 1 Weight	2.294 Kg
Unit Type of Package 2	S04
Number of Units in Package 2	4
Package 2 Height	30 Cm
Package 2 Width	40 Cm
Package 2 Length	60 Cm
Package 2 Weight	12.145 Kg
Unit Type of Package 3	P12

Number of Units in Package 3	16
Package 3 Height	45.000 Cm
Package 3 Width	80.000 Cm
Package 3 Length	120.000 Cm
Package 3 Weight	55.641 Kg

Offer Sustainability

Total lifecycle Carbon footprint	637 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	28.2311608696
Carbon footprint of the manufacturing phase [A1 to A3]	28 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4375356174
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0261735426
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	608.1634198473
Carbon footprint of the use phase [B2, B3, B4, B6]	608 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.4460234174
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	637
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
PVC free	Yes
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised