Product data sheet
Characteristics

BCH18LH15332A6C
Servo motor, Lexium 18, 1.5kW, L100, 23 bits, OPTO INC



Main

Range of product	Lexium 18
Range compatibility	Lexium 18
Product or component type	Servo motor
Device short name	BCH18

Complementary

Maximum mechanical speed	6000.0 Rpm
[Us] rated supply voltage	200...240 V
Continuous stall current	9.2 A
Continuous stall torque	4.77 N.M, 220 V
Continuous power	1500 W
Peak stall torque	14.3 N.M, 220 V
Nominal output power	1500 W, 220 V
Nominal torque	4.77 N.M, 220 V
Nominal speed	3000 rpm, 220 V
Maximum permanent current	28.8 A
Shaft end	Parallel key
Shaft diameter	22.0 Mm
Shaft length	45.0 Mm
Key width	8.0 Mm
Feedback type	23 bits optic incremental encoder
Holding brake	Without
Mounting support	Asian standard flange
Motor flange size	100 Mm
Electrical connection	2 connectors male/female
Torque constant	0.52 N.M/A at 40 °C
Back emf constant	34.2 V/Krpm at 40 °C
Number of motor poles	5.0
Rotor inertia	2.09 Kg.Cm²
Stator resistance	0.4 Ohm
Stator inductance	3.0 MH
Maximum radial force Fr	686 N
Maximum axial force Fa	196 N
Length	159 Mm
Number of mounting holes	4.0
Circle diameter of the mounting holes	9.0 Mm
Width	159.0 Mm

Height	100.0 Mm
Depth	152.2 Mm
Net weight	4.5 Kg
Encoder type	Optic encoder
Inertia	0.0 Kg.Cm² of brake 2.09 Kg.Cm² of motor

Environment

IP degree of protection	IP67
Ambient air temperature for operation	0…40 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.5 Cm
Package 1 Width	18.2 Cm
Package 1 Length	27.8 Cm
Package 1 Weight	5.23 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	20.92 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	24
Package 3 Height	105 Cm
Package 3 Width	60 Cm
Package 3 Length	80 Cm
Package 3 Weight	125.52 Kg

Offer Sustainability

Total lifecycle Carbon footprint	13 060 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	56.0464122137
Carbon footprint of the manufacturing phase [A1 to A3]	56 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.6193099237
Carbon footprint of the distribution phase [A4]	0.6 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0366045802
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	13002.1386792453
Carbon footprint of the use phase [B2, B3, B4, B6]	13 002 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.7512549618
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	13060
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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, which
End of life manual availability	End Of Life Information

Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised