

Product data sheet

Specifications



servo motor BSH, Lexium 32,
0.38N.m, 9000rpm, 40mm,
untapped shaft, 16 Sincos Multi turn,
without brake, IP50

BSH0402P07A2A

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

Device short name	BSH
Product or Component Type	Servo motor
Maximum mechanical speed	10000 rpm
Continuous stall torque	3.36 lbf.in (0.38 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 3.36 lbf.in (0.38 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 3.36 lbf.in (0.38 N.m) LXM32.U45M2 1.5 A, 230 V, single phase
Peak stall torque	12.13 lbf.in (1.37 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 12.13 lbf.in (1.37 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 12.13 lbf.in (1.37 N.m) LXM32.U45M2 1.5 A, 230 V, single phase
Nominal output power	275 W LXM32.U60N4 1.5 A, 480 V, three phase 289 W LXM32.U60N4 1.5 A, 400 V, three phase 152 W LXM32.U45M2 1.5 A, 230 V, single phase
Nominal torque	2.584 lbf.in (0.292 N.m) LXM32.U60N4 1.5 A, 480 V, three phase 2.717 lbf.in (0.307 N.m) LXM32.U60N4 1.5 A, 400 V, three phase 3.222 lbf.in (0.364 N.m) LXM32.U45M2 1.5 A, 230 V, single phase
Nominal speed	9000 rpm LXM32.U60N4 1.5 A, 480 V, three phase 9000 rpm LXM32.U60N4 1.5 A, 400 V, three phase 4000 rpm LXM32.U45M2 1.5 A, 230 V, single phase
Shaft end	Smooth shaft
IP Degree of Protection	IP50 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

Range Compatibility	Lexium 32
supply voltage max	400 V
Phase	Three phase
Continuous stall current	1.5 A
maximum continuous power	398 W
Maximum current Irms	6 A LXM32.U60N4 480 V 6 A LXM32.U60N4 400 V 6 A LXM32.U45M2 230 V
Maximum permanent current	1.5 A
Switching frequency	8 kHz

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Second shaft	Without second shaft end
Shaft diameter	0.3 in (8 mm)
Shaft length	1.0 in (25 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	1.6 in (40 mm)
Number of motor stacks	2
Torque constant	0.26 N.m/A 248 °F (120 °C)
Back emf constant	18 V/krpm 68 °F (20 °C)
Number of motor poles	5.0
Rotor inertia	0.0419 kg.cm²
Stator resistance	11.6 Ohm 68 °F (20 °C)
Stator inductance	6.4 mH 68 °F (20 °C)
Stator electrical time constant	1.1 ms 68 °F (20 °C)
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	3.7 in (93.4 mm)
Centring collar diameter	1.2 in (30 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (4.5 mm)
Circle diameter of the mounting holes	1.8 in (46 mm)
Product Weight	1.3 lb(US) (0.6 kg)
Sizing reference	BSH0402P
Network number of phases	3
Accuracy error [angular]	0.08 °
Temperature copper hot	248 °F (120 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)
Output current 3s peak	7.2 A
Inertia	0.0 kg.cm² of brake 0.042 kg.cm² of motor

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485467269
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	6.7 in (17.0 cm)
Package 1 Length	9.4 in (24.0 cm)
Package weight(Lbs)	22.1 oz (627.0 g)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	315 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	312 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	8c11b0c9-e501-4810-83eb-05fc6605ede4
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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 www.P65Warnings.ca.gov
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.