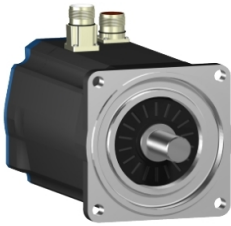


Product datasheet

Specifications



servo motor BSH, Lexium 32,
14.4N.m, 3000rpm, 140mm,
untapped shaft, Sincos single turn,
without brake, IP50, straight

BSH1402T01A1P

! Discontinued

! Discontinued on: 4 Aug 2021

! End-of-service on: 30 Jun 2023

EAN Code: 3389118361072

Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	19.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 19.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 14.4 N.m for LXM05AD42M3X, 200...240 V, three phase 14.4 N.m for LXM05BD42M3X, 200...240 V, three phase 14.4 N.m for LXM05CD42M3X, 200...240 V, three phase
Peak stall torque	59.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 59.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 24.56 N.m for LXM05AD42M3X, 200...240 V, three phase 24.56 N.m for LXM05BD42M3X, 200...240 V, three phase
Nominal output power	3900 W for LXM32.D72N4 at 24 A, 400 V, three phase 3900 W for LXM32.D72N4 at 24 A, 480 V, three phase 2900 W for LXM05AD42M3X, 200...240 V, three phase 2900 W for LXM05BD42M3X, 200...240 V, three phase 2900 W for LXM05CD42M3X, 200...240 V, three phase
Nominal torque	12.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 12.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 9.2 N.m for LXM05AD42M3X, 200...240 V, three phase 9.2 N.m for LXM05BD42M3X, 200...240 V, three phase 9.2 N.m for LXM05CD42M3X, 200...240 V, three phase
Nominal speed	3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase 3000 rpm for LXM05AD42M3X, 200...240 V, three phase 3000 rpm for LXM05BD42M3X, 200...240 V, three phase 3000 rpm for LXM05CD42M3X, 200...240 V, three phase
Product compatibility	LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase
Shaft end	Untapped
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 05 Lexium 32
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	22.5 A
maximum continuous power	4.2 W
Maximum current Irms	72 A for LXM32.D72N4 75.2 A for LXM05AD42M3X 75.2 A for LXM05BD42M3X 75.2 A for LXM05CD42M3X
Maximum permanent current	75.2 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	140 mm
Number of motor stacks	2
Torque constant	0.87 N.m/A at 120 °C
Back emf constant	101 V/krpm at 120 °C
Rotor inertia	12.68 kg.cm ²
Stator resistance	0.6 Ohm at 20 °C
Stator inductance	7.4 mH at 20 °C
Stator electrical time constant	12.1 ms at 20 °C
Maximum radial force Fr	1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	272.5 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	16.6 kg
Sizing reference	BSH1402T
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	120 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.0 cm
Package 1 Width	27.0 cm
Package 1 Length	48.2 cm
Package 1 Weight	11.5 kg

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 >](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

No need of specific recycling operations