

BSH0401P06A2A

servo motor BSH, Lexium 32, 0.21N.m,
9000rpm, 40mm, untapped shaft, 16 Sincos
single turn, without brake, IP50



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	10000 rpm
Continuous stall torque	0.21 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.21 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.21 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase
Peak stall torque	0.8 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.8 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.8 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase
Nominal output power	166 W for LXM32.U60N4 at 1.5 A, 480 V, three phase 166 W for LXM32.U60N4 at 1.5 A, 400 V, three phase 77 W for LXM32.U45M2 at 1.5 A, 230 V, single phase
Nominal torque	0.176 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase 0.176 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase 0.184 N.m for LXM32.U45M2 at 1.5 A, 230 V, single phase
Nominal speed	9000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase 9000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase 4000 rpm for LXM32.U45M2 at 1.5 A, 230 V, single phase
Shaft end	Smooth shaft
IP degree of protection	IP50 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
Supply voltage max	400 V
Network number of phases	Three phase
Continuous stall current	1.12 A
Maximum continuous power	220 W
Maximum current Irms	4.7 A for LXM32.U60N4 at 480 V 4.7 A for LXM32.U60N4 at 400 V 4.7 A for LXM32.U45M2 at 230 V
Maximum permanent current	1.12 A

Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	8 mm
Shaft length	25 mm
Feedback type	Single turn SinCos Hiperface
Motor flange size	40 mm
Number of motor stacks	1
Torque constant	0.19 N.m/A at 120 °C
Back emf constant	13.6 V/krpm at 20 °C
Number of motor poles	10
Rotor inertia	0.0232 kg.cm ²
Stator resistance	17.2 Ohm at 20 °C
Stator inductance	14.6 mH at 20 °C
Stator electrical time constant	0.85 ms at 20 °C
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	73.4 mm
Centring collar diameter	30 mm
Centring collar depth	2.5 mm
Number of mounting holes	4
Mounting holes diameter	4.5 mm
Circle diameter of the mounting holes	46 mm
Net weight	0.4 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.0 cm
Package 1 Width	17.0 cm
Package 1 Length	24.0 cm
Package 1 Weight	627.0 g

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

For Servo Motor without Brake

Technical drawing of a shaft-hub assembly. The shaft has a diameter of $\varnothing C \text{ h6}$ and a length of G . The hub has an outer diameter of $D \text{ h9}$ and a keyway of width E . The shaft has a key of width A and length F . The hub has a bore of diameter C and a keyway of width E . The total length of the assembly is B . The section line $A-A$ is indicated.

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