# BSH0401P17A2A

AC servo motor BSH - 0.21N.m - 9000 rpm - keyed shaft - 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	Keyed	
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	
[Us] rated supply voltage	400 V	
Network number of phases	Three phase	
Continuous stall current	1.12 A	
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	

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Key width	12 Mm	
Feedback type	Multiturn 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.Cm²	
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	

# Offer Sustainability

Green Premium product	
☑ REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Yes	
₫Yes	
China RoHS Declaration	
Product Environmental Profile	
No need of specific recycling operations	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

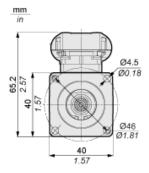


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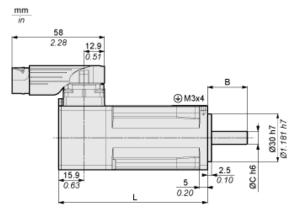
## Servo Motors Dimensions

## For Servo Motor without Brake

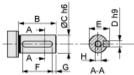
### Front view



#### Left view



#### DIN 6885 A



	Dimensions in mm	Dimensions in in.	
L	73.4	2.89	
В	25	0.98	
С	8	0.31	
D	3	0.12	
E	9.2	0.36	
F	12	0.47	
G	4	0.16	
Н	DIN 332 DS M3 x 9		
А	DIN 6885-A3x3x12		

Product Life Status: Commercialised