

# AC servo motor BSH - 0.21N.m - 9000 rpm - untapped shaft - without brake - IP50

BSH0401P07A2A

EAN Code: 3606485467122

#### Main

Device short name	BSH	
Product or component type	Servo motor	
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 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
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	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	5.0
Rotor inertia	0.0232 kg.cm <sup>2</sup>
Stator resistance	17.2 Ohm at 20 °C
Stator inductance	7.3 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
Sizing reference	BSH0401P
Network number of phases	3
Accuracy error [angular]	0.08 °
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	11.0 cm
Package 1 Width	17.0 cm
Package 1 Length	24.0 cm
Package 1 Weight	627.0 g

## **Contractual warranty**

Warranty 18 months



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	198
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	8c11b0c9-e501-4810-83eb-05fc6605ede4
REACh Regulation	REACh Declaration
PVC free	Yes

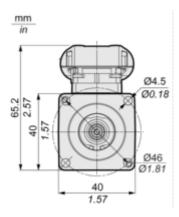
#### Use Again

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

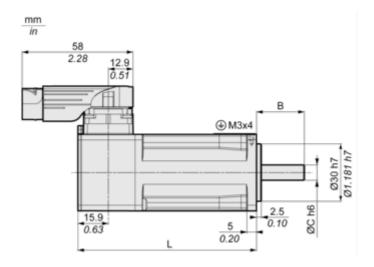
#### **Dimensions Drawings**

#### **Servo Motors Dimensions**

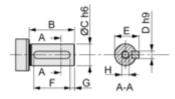
## For Servo Motor without Brake Front view



#### 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

## Product datasheet BSH0401P07A2A

	Dimensions in mm	Dimensions in in.
E	9.2	0.36
F	12	0.47
G	4	0.16
н	DIN 332 DS M3 x 9	
А	DIN 6885-A3x3x12	