

# BSH1403T02A2P

AC servo motor BSH - 27.8 N.m - 3000 rpm -  
untapped shaft - without brake - IP50



## Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4800 rpm
Continuous stall torque	27.8 N.m for LXM32.D72N4 24 A at 400 V three phase 27.8 N.m for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	90.2 N.m for LXM32.D72N4 24 A at 400 V three phase 90.2 N.m for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	4100 W for LXM32.D72N4 24 A at 400 V three phase 4100 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	12.9 N.m for LXM32.D72N4 24 A at 400 V three phase 12.9 N.m for LXM32.D72N4 24 A at 480 V three phase
Nominal speed	3000 rpm for LXM32.D72N4 24 A at 400 V three phase 3000 rpm for LXM32.D72N4 24 A at 480 V three phase
Product compatibility	LXM32.D72N4 at 400 V three phase LXM32.D72N4 at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard
Electrical connection	Rotatable right-angled connectors

## Complementary

Range compatibility	Lexium 32
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	22.3 A
Maximum continuous power	3.3 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	81.3 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	140 mm
Number of motor stacks	3
Torque constant	1.58 N.m/A at 120 °C

Back emf constant	105 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	12.68 kg.cm <sup>2</sup>
Stator resistance	0.4 Ohm at 20 °C
Stator inductance	5.1 mH at 20 °C
Stator electrical time constant	12.75 ms at 20 °C
Maximum radial force Fr	1780 N at 3000 rpm 2030 N at 2000 rpm 2560 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	327.5 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
Product weight	21.2 kg

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1018 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Need no specific recycling operations



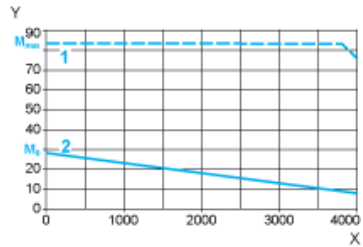
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400 V 3-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



- X Speed in rpm  
Y Torque in Nm  
1 Peak torque  
2 Continuous torque

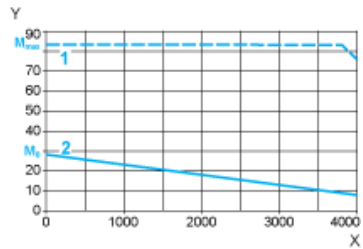
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480 V 3-Phase Supply Voltage

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Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



- X Speed in rpm  
Y Torque in Nm  
1 Peak torque  
2 Continuous torque