BSH1404P01F2P

servo motor BSH, Lexium 32, 32.1N.m, 3000rpm, 140mm, untapped shaft, Sincos single turn, with brake, IP50





Main Product or Component Servo motor Type BSH Device short name Maximum mechanical 4000 rpm Continuous stall torque 295.61 Lbf.In (33.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 295.61 Lbf.In (33.4 N.m) LXM32.D72N4 24 A, 480 V, three phase 284.11 Lbf.In (32.1 N.m) LXM05AD57N4, 380...480 V, three phase 284.11 Lbf.In (32.1 N.m) LXM05BD57N4, 380...480 V, three phase 284.11 lbf.in (32.1 N.m) LXM05CD57N4, 380...480 V, three phase 916.94 Lbf.In (103.6 N.m) LXM32.D72N4 24 A, 400 Peak stall torque V, three phase 916.94 Lbf.In (103.6 N.m) LXM32.D72N4 24 A, 480 V, three phase 558.39 Lbf.In (63.09 N.m) LXM05AD57N4, 380...480 V, three phase 558.39 Lbf.In (63.09 N.m) LXM05BD57N4, 380...480 V, three phase 558.39 lbf.in (63.09 N.m) LXM05CD57N4, 380...480 V, three phase Nominal output power 5000 W LXM32.D72N4 24 A, 400 V, three phase 5000 W LXM32.D72N4 24 A, 480 V, three phase 3400 W LXM05AD57N4, 380...480 V, three phase 3400 W LXM05BD57N4, 380...480 V, three phase 3400 W LXM05CD57N4, 380...480 V, three phase Nominal torque 168.16 Lbf.In (19 N.m) LXM32.D72N4 24 A, 400 V, three phase 168.16 Lbf.In (19 N.m) LXM32.D72N4 24 A, 480 V, three phase 95.59 Lbf.In (10.8 N.m) LXM05AD57N4, 380...480 V, three phase 95.59 Lbf.In (10.8 N.m) LXM05BD57N4, 380...480 V, three phase 95.59 lbf.in (10.8 N.m) LXM05CD57N4, 380...480 V, three phase 2500 rpm LXM32.D72N4 24 A, 400 V, three phase Nominal speed 2500 rpm LXM32.D72N4 24 A, 480 V, three phase 3000 rpm LXM05AD57N4, 380...480 V, three phase 3000 rpm LXM05BD57N4, 380...480 V, three phase 3000 rpm LXM05CD57N4, 380...480 V, three phase Product compatibility LXM05AD57N4 380...480 V three phase LXM05BD57N4 380...480 V three phase LXM05CD57N4 380...480 V three phase LXM32.D72N4 400 V three phase LXM32.D72N4 480 V three phase Shaft end Untapped IP Degree of Protection IP50 standard Speed feedback 131072 points/turn

resolution
Holding brake

Mounting Support

Electrical Connection

With

International standard flange

Rotatable right-angled connectors

Complementary

Complementary					
Range Compatibility	Lexium 05 Lexium 32				
Supply voltage max	480 V				
Phase	Three phase				
Continuous stall current	21.3 A				
Maximum continuous power	4.33 W				
Maximum current Irms	72 A LXM32.D72N4 95.6 A LXM05AD57N4 95.6 A LXM05BD57N4 95.6 A LXM05CD57N4				
Maximum permanent current	95.6 A				
Switching frequency	8 kHz				
Second shaft	Without second shaft end				
Shaft diameter	0.94 in (24 mm)				
Shaft length	1.97 in (50 mm)				
Feedback type	Single turn SinCos Hiperface				
Holding torque	318.63 lbf.in (36 N.m) holding brake				
Motor flange size	5.51 in (140 mm)				
Number of motor stacks	4				
Torque constant	1.57 N.m/A 248 °F (120 °C)				
Back emf constant	104 V/krpm 248 °F (120 °C)				
Number of motor poles	10				
Rotor inertia	29.2 kg.cm ²				
Stator resistance	0.28 Ohm 68 °F (20 °C)				
Stator inductance	3.9 mH 68 °F (20 °C)				
Stator electrical time constant	13.93 ms 68 °F (20 °C)				
Maximum radial force Fr	1840 N 3000 rpm 2110 N 2000 rpm 2660 N 1000 rpm				
Maximum axial force Fa	0.2 x Fr				
Brake pull-in power	26 W				
Type of cooling	Natural convection				
Length	16.56 in (420.5 mm)				
Centring collar diameter	5.12 in (130 mm)				
Centring collar depth	0.14 in (3.5 mm)				
Number of mounting holes	4				
Mounting holes diameter	0.43 in (11 mm)				
Circle diameter of the mounting holes	6.50 in (165 mm)				
Net Weight	61.29 lb(US) (27.8 kg)				

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3389118361423
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE		
Number of Units in Package 1	1		
Package 1 Height	10.63 in (27.0 cm)		
Package 1 Width	10.63 in (27.0 cm)		
Package 1 Length	23.86 in (60.6 cm)		
Package 1 Weight	45.42 lb(US) (20.6 kg)		

Offer Sustainability

Sustainable offer status	Green Premium product		
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov		
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		

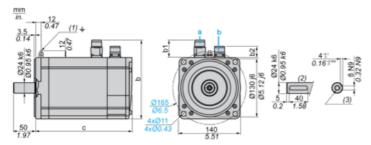
Contractual warranty

Warranty 18 months	
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Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) M4 screw
- (2) Shaft end, keyed slot (optional)
- (3) For screws M8 x 19 mm/M8 x 0.75 in.

Dimensions in mm

Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
192.5	54	25.5	198.5	60	39.5	383	421

Dimensions in in.

Straight connectors		Rotatable angled connectors			c (without brake)	c (with brake)	
b	b1	b2	b	b1	b2		
7.57	2.12	1.00	7.81	2.36	1.55	15.07	16.57

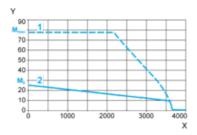
Product data sheet Performance Curves

BSH1404P01F2P

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

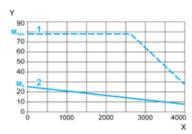


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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