BSH1402T32A2P

AC servo motor BSH, Lexium 32, 14.4N.m, 3000rpm, keyed shaft, without brake, IP65





Main

Product or Component Type	Servo motor
Device short name	BSH
Maximum mechanical speed	4000 rpm
Continuous stall torque	172.59 Lbf.In (19.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 172.59 Lbf.In (19.5 N.m) LXM32.D72N4 24 A, 480 V, three phase 127.45 Lbf.In (14.4 N.m) LXM05AD42M3X, 200240 V, three phase 127.45 Lbf.In (14.4 N.m) LXM05BD42M3X, 200240 V, three phase 127.45 lbf.in (14.4 N.m) LXM05CD42M3X, 200240 V, three phase
Peak stall torque	524.85 Lbf.In (59.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 524.85 Lbf.In (59.3 N.m) LXM32.D72N4 24 A, 480 V, three phase 217.37 Lbf.In (24.56 N.m) LXM05AD42M3X, 200240 V, three phase 217.37 lbf.in (24.56 N.m) LXM05BD42M3X, 200240 V, three phase
Nominal output power	3900 W LXM32.D72N4 24 A, 400 V, three phase 3900 W LXM32.D72N4 24 A, 480 V, three phase 2900 W LXM05AD42M3X, 200240 V, three phase 2900 W LXM05BD42M3X, 200240 V, three phase 2900 W LXM05CD42M3X, 200240 V, three phase
Nominal torque	108.86 Lbf.In (12.3 N.m) LXM32.D72N4 24 A, 400 V, three phase 108.86 Lbf.In (12.3 N.m) LXM32.D72N4 24 A, 480 V, three phase 81.43 Lbf.In (9.2 N.m) LXM05AD42M3X, 200240 V, three phase 81.43 Lbf.In (9.2 N.m) LXM05BD42M3X, 200240 V, three phase 81.43 lbf.in (9.2 N.m) LXM05CD42M3X, 200240 V, three phase
Nominal speed	3000 rpm LXM32.D72N4 24 A, 400 V, three phase 3000 rpm LXM32.D72N4 24 A, 480 V, three phase 3000 rpm LXM05AD42M3X, 200240 V, three phase 3000 rpm LXM05BD42M3X, 200240 V, three phase 3000 rpm LXM05CD42M3X, 200240 V, three phase
Product compatibility	LXM05AD42M3X 200240 V three phase LXM05BD42M3X 200240 V three phase LXM05CD42M3X 200240 V three phase
Shaft end	Keyed
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary

Complementary					
Range Compatibility	Lexium 32 Lexium 05				
Supply voltage max	480 V				
Phase	Three phase				
Continuous stall current	22.5 A				
Maximum continuous power	4.2 W				
Maximum current Irms	72 A LXM32.D72N4 75.2 A LXM05AD42M3X 75.2 A LXM05BD42M3X 75.2 A LXM05CD42M3X				
Maximum permanent current	75.2 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)				
Key width	1.57 in (40 mm)				
Feedback type	Multiturn SinCos Hiperface				
Motor flange size	5.51 in (140 mm)				
Number of motor stacks	2				
Torque constant	1.47 N.m/A 248 °F (120 °C)				
Back emf constant	101 V/krpm 248 °F (120 °C)				
Number of motor poles	10				
Rotor inertia	12.68 kg.cm²				
Stator resistance	0.6 Ohm 68 °F (20 °C)				
Stator inductance	7.4 mH 68 °F (20 °C)				
Stator electrical time constant	12.1 ms 68 °F (20 °C)				
Maximum radial force Fr	1680 N 3000 rpm 1930 N 2000 rpm 2430 N 1000 rpm				
Maximum axial force Fa	0.2 x Fr				
Type of cooling	Natural convection				
Length	10.73 in (272.5 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	36.60 lb(US) (16.6 kg)				

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3389118361362
Returnability	No
Country of origin	DE

Packing Units

PCE			
1			
10.63 in (27.0 cm)			
10.63 in (27.0 cm)			
18.98 in (48.2 cm)			
25.35 lb(US) (11.5 kg)			

Offer Sustainability

Warranty

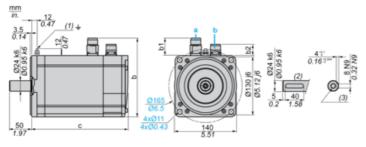
Sustainable offer status	Green Premium product				
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov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

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 conn	ectors		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	273	311

Dimensions in in.

Straight con	nectors		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	10.74	12.24

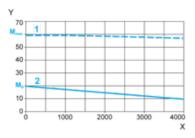
Product data sheet Performance Curves

BSH1402T32A2P

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

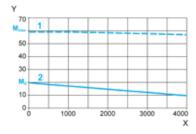


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

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