

BSH1404P21F1P

AC servo motor BSH - 32.1 N.m - 3000 rpm -
untapped shaft - with brake - IP65

Product availability: Non-Stock - Not normally stocked in distribution facility



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	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
Peak stall torque	916.94 Lbf.In (103.6 N.m) LXM32.D72N4 24 A, 400 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
Nominal speed	2500 rpm LXM32.D72N4 24 A, 400 V, three phase 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	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

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Complementary

Range compatibility	Lexium 32 Lexium 05
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)

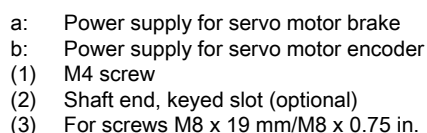
Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03389118361577
Package weight(Lbs)	20.55 kg (45.3 lb(US))
Returnability	No
Country of origin	DE

Contractual warranty

Warranty	18 months
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Example with Straight Connectors



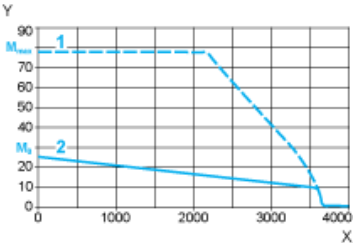
Straight connectors			Rotatable angled connectors			c (without brake)	c (with brake)
b	b1	b2	b	b1	b2		
192.5	54	25.5	198.5	60	39.5	383	421

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

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

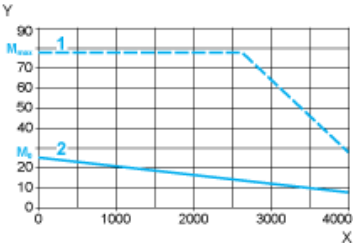


- X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

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