

BSH1002T22F2A

AC servo motor BSH - 5.5 N.m - 4000 rpm -
untapped shaft - with brake - IP65



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	5.8 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 5.5 N.m for LXM15LD28M3, 230 V, three phase 5.5 N.m for LXM05AD42M3X, 200...240 V, three phase 5.5 N.m for LXM05BD42M3X, 200...240 V, three phase 5.5 N.m for LXM05CD42M3X, 200...240 V, three phase
Peak stall torque	16.4 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 11.59 N.m for LXM15LD28M3, 230 V, three phase 16 N.m for LXM05AD42M3X, 200...240 V, three phase 16 N.m for LXM05BD42M3X, 200...240 V, three phase 16 N.m for LXM05CD42M3X, 200...240 V, three phase
Nominal output power	1500 W for LXM32.D30M2 at 10 A, 230 V, single phase 1400 W for LXM05AD42M3X, 200...240 V, three phase 1400 W for LXM05BD42M3X, 200...240 V, three phase 1400 W for LXM05CD42M3X, 200...240 V, three phase 1700 W for LXM15LD28M3, 230 V, three phase
Nominal torque	3.7 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 4 N.m for LXM15LD28M3, 230 V, three phase 4.4 N.m for LXM05AD42M3X, 200...240 V, three phase 4.4 N.m for LXM05BD42M3X, 200...240 V, three phase 4.4 N.m for LXM05CD42M3X, 200...240 V, three phase
Nominal speed	4000 rpm for LXM32.D30M2 at 10 A, 230 V, single phase 3000 rpm for LXM05AD42M3X, 200...240 V, three phase 3000 rpm for LXM05BD42M3X, 200...240 V, three phase 3000 rpm for LXM05CD42M3X, 200...240 V, three phase 4000 rpm for LXM15LD28M3, 230 V, three phase
Product compatibility	LXM32.D30M2 at 230 V single phase LXM05AD42M3X at 200...240 V three phase LXM05BD42M3X at 200...240 V three phase LXM05CD42M3X at 200...240 V three phase LXM15LD28M3 at 230 V three phase
Shaft end	Untapped
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange

Electrical connection	Rotatable right-angled connectors
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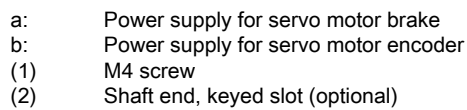
Complementary

Range compatibility	Lexium 05 Lexium 32 Lexium 15
Supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	9.9 A
Maximum continuous power	2.51 W
Maximum current Irms	31.2 A for LXM15LD28M3 35.4 A for LXM05AD42M3X 35.4 A for LXM05BD42M3X 35.4 A for LXM05CD42M3X 30 A for LXM32.D30M2
Maximum permanent current	35.4 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	9 N.m holding brake
Motor flange size	100 mm
Number of motor stacks	2
Torque constant	0.59 N.m/A at 120 °C
Back emf constant	37 V/krpm at 120 °C
Number of motor poles	8
Rotor inertia	2.928 kg.cm ²
Stator resistance	0.56 Ohm at 20 °C
Stator inductance	3 mH at 20 °C
Stator electrical time constant	5.36 ms at 20 °C
Maximum radial force Fr	620 N at 4000 rpm 690 N at 3000 rpm 790 N at 2000 rpm 990 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	235.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	6.3 kg

Contractual warranty

Warranty	18 months
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Example with Straight Connectors



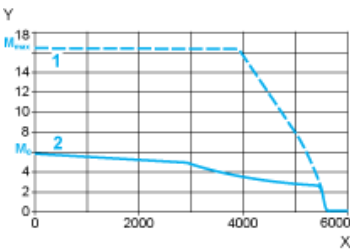
Straight connectors		Rotatable angled connectors		c (without bracket)	c (with bracket)	c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
39.5	25.5	39.5	39.5	205	236	40	30	6 N9	3.5 ^{+0.1} ₀	19 k6	M6 x 16

Straight connector		Rotatable angled connector (without bracket)		Rotatable angled connector (with bracket)		c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
1.55	1.00	1.55	1.55	8.07	9.29	1.57	1.18	0.24 N9	0.14 ^{+0.1} ₀	0.75 k6	M6 x 0.63

230 V Single-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30M2 servo drive



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