



servo motor **BMH1401P17F2A**

URL: <https://www.sxplc.com/servo-motor-bmh1401p17f2a>

Product data sheet

Main	Device short name	BMH
	Product or Component Type	Servo motor
	Maximum mechanical speed	4000 rpm
	Continuous stall torque	91.16 lbf.in (10.3 N.m) LXM32.D30M2 10 A, 230 V, single phase 91.16 lbf.in (10.3 N.m) LXM32.D30N4 10 A, 400 V, three phase 91.16 lbf.in (10.3 N.m) LXM32.D30N4 10 A, 480 V, three phase
	Peak stall torque	272.60 lbf.in (30.8 N.m) LXM32.D30M2 10 A, 230 V, single phase 272.60 lbf.in (30.8 N.m) LXM32.D30N4 10 A, 400 V, three phase 272.60 lbf.in (30.8 N.m) LXM32.D30N4 10 A, 480 V, three phase
	Nominal output power	1450 W LXM32.D30M2 10 A, 230 V, single phase 2400 W LXM32.D30N4 10 A, 400 V, three phase 2400 W LXM32.D30N4 10 A, 480 V, three phase
	Nominal torque	61.07 lbf.in (6.9 N.m) LXM32.D30M2 10 A, 230 V, single phase 68.15 lbf.in (7.7 N.m) LXM32.D30N4 10 A, 400 V, three phase 68.15 lbf.in (7.7 N.m) LXM32.D30N4 10 A, 480 V, three phase
	Nominal speed	2000 rpm LXM32.D30M2 10 A, 230 V, single phase 3000 rpm LXM32.D30N4 10 A, 400 V, three phase 3000 rpm LXM32.D30N4 10 A, 480 V, three phase
	Product compatibility	LXM32.D30M2 230 V single phase

	LXM32.D30N4 400...480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP54 standard
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

Complementary	Range Compatibility	Lexium 32
	[Us] rated supply voltage	480 V
	Phase	Three phase
	Continuous stall current	8.58 A
	Continuous power	2.85 W
	Maximum current Irms	29.8 A LXM32.D30M2 29.8 A LXM32.D30N4
	Maximum permanent current	29.8 A
	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
	Holding torque	159.31 lbf.in (18 N.m) holding brake
	Motor flange size	5.51 in (140 mm)
	Number of motor stacks	1
	Torque constant	1.2 N.m/A 248 °F (120 °C)
	Back emf constant	77.4 V/krpm 248 °F (120 °C)
	Number of motor poles	10
	Rotor inertia	17.96 kg.cm ²
	Stator resistance	0.69 Ohm 68 °F (20 °C)

Stator inductance	6.7 mH 68 °F (20 °C)
Stator electrical time constant	9.7 ms 68 °F (20 °C)
Maximum radial force Fr	1930 N 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	7.36 in (187 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	22.71 lb(US) (10.3 kg)

