



## Servo motor **BMH0702P06F2A**

URL: <https://www.sxplc.com/servo-motor-bmh0702p06f2a>

### Product data sheet

Main	Device short name	BMH
	Product or Component Type	Servo motor
	Maximum mechanical speed	8000 rpm
	Continuous stall torque	22.1 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 400 V, three phase 22.1 lbf.in (2.5 N.m) LXM32.D12N4 3 A, 480 V, three phase
	Peak stall torque	65.5 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 400 V, three phase 65.5 lbf.in (7.4 N.m) LXM32.D12N4 3 A, 480 V, three phase
	Nominal output power	700 W LXM32.D12N4 3 A, 400 V, three phase 700 W LXM32.D12N4 3 A, 480 V, three phase
	Nominal torque	19.5 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 400 V, three phase 19.5 lbf.in (2.2 N.m) LXM32.D12N4 3 A, 480 V, three phase
	Nominal speed	3000 rpm LXM32.D12N4 3 A, 400 V, three phase 3000 rpm LXM32.D12N4 3 A, 480 V, three phase
	Product compatibility	LXM32.D12N4 400...480 V three phase
	Shaft end	Smooth shaft
	IP Degree of Protection	IP54 standard
	Speed feedback resolution	32768 points/turn
	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	2.94 A
	Continuous power	1.51 W
	Maximum current Irms	9.7 A LXM32.D12N4
	Maximum permanent current	9.68 A
	Second shaft	Without second shaft end
	Shaft diameter	0.4 in (11 mm)
	Shaft length	0.9 in (23 mm)
	Feedback type	Single turn SinCos Hiperface
	Holding torque	26.6 lbf.in (3 N.m) holding brake
	Motor flange size	2.8 in (70 mm)
	Number of motor stacks	2
	Torque constant	0.84 N.m/A 248 °F (120 °C)
	Back emf constant	54.08 V/krpm 248 °F (120 °C)
	Number of motor poles	10
	Rotor inertia	1.24 kg.cm <sup>2</sup>
	Stator resistance	3.8 Ohm 68 °F (20 °C)
	Stator inductance	12.2 mH 68 °F (20 °C)
	Stator electrical time constant	3.2 ms 68 °F (20 °C)
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm 410 N 5000 rpm 390 N 6000 rpm	
Maximum axial force Fa	0.2 x Fr	

Brake pull-in power	7 W
Type of cooling	Natural convection
Length	7.6 in (193 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.2 in (82 mm)
Net Weight	7.3 lb(US) (3.3 kg)

