



## 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<br>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<br>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<br>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<br>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<br>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<br>560 N 2000 rpm<br>490 N 3000 rpm<br>450 N 4000 rpm<br>410 N 5000 rpm<br>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) |

