

# Product data sheet

Specifications



servo motor BMH, Lexium 32,  
34.4Nm, 3800rpm, untapped shaft,  
with brake, IP65, IP67, 16  
multiturn encoder, straight

BMH2051P27F1A

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

Price\*: 8,100.00 USD

## Main

|                           |                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Device short name         | BMH                                                                                                                            |
| Product or Component Type | Servo motor                                                                                                                    |
| Maximum mechanical speed  | 3800 rpm                                                                                                                       |
| Continuous stall torque   | 304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>304.5 lbf.in (34.4 N.m) LXM32.D72N4 24 A, 480 V, three phase   |
| Peak stall torque         | 915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>915.2 lbf.in (103.4 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| Nominal output power      | 5400 W LXM32.D72N4 24 A, 400 V, three phase<br>5400 W LXM32.D72N4 24 A, 480 V, three phase                                     |
| Nominal torque            | 228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>228.3 lbf.in (25.8 N.m) LXM32.D72N4 24 A, 480 V, three phase   |
| Nominal speed             | 2000 rpm LXM32.D72N4 24 A, 400 V, three phase<br>2000 rpm LXM32.D72N4 24 A, 480 V, three phase                                 |
| Product compatibility     | LXM32.D72N4 400...480 V three phase                                                                                            |
| Shaft end                 | Smooth shaft                                                                                                                   |
| IP Degree of Protection   | IP65 standard<br>IP67 with IP67 kit                                                                                            |
| Speed feedback resolution | 32768 points/turn x 4096 turns                                                                                                 |
| Holding brake             | With                                                                                                                           |
| Mounting Support          | International standard flange                                                                                                  |
| Electrical Connection     | Straight connectors                                                                                                            |

## Complementary

|                           |                          |
|---------------------------|--------------------------|
| Range Compatibility       | Lexium 32                |
| [Us] rated supply voltage | 480 V                    |
| Phase                     | Three phase              |
| Continuous stall current  | 21.5 A                   |
| Continuous power          | 6.8 W                    |
| Maximum current Irms      | 72 A LXM32.D72N4         |
| Maximum permanent current | 78.1 A                   |
| Second shaft              | Without second shaft end |
| Shaft diameter            | 1.5 in (38 mm)           |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Shaft length                          | 3.1 in (80 mm)                                        |
| Feedback type                         | Multiturn SinCos Hiperface                            |
| Holding torque                        | 708.06 lbf.in (80 N.m) holding brake                  |
| Motor flange size                     | 8.07 in (205 mm)                                      |
| Number of motor stacks                | 1                                                     |
| Back emf constant                     | 104 V/krpm 248 °F (120 °C)                            |
| Number of motor poles                 | 10                                                    |
| Rotor inertia                         | 87.4 kg.cm²                                           |
| Stator resistance                     | 0.3 Ohm 68 °F (20 °C)                                 |
| Stator inductance                     | 5.9 mH 68 °F (20 °C)                                  |
| Stator electrical time constant       | 19.7 ms 68 °F (20 °C)                                 |
| Maximum radial force Fr               | 3730 N 1000 rpm<br>2960 N 2000 rpm<br>2580 N 3000 rpm |
| Maximum axial force Fa                | 0.2 x Fr                                              |
| Brake pull-in power                   | 40 W                                                  |
| Type of cooling                       | Natural convection                                    |
| Length                                | 14.6 in (370.5 mm)                                    |
| Centring collar diameter              | 7.09 in (180 mm)                                      |
| Centring collar depth                 | 0.2 in (4 mm)                                         |
| Number of mounting holes              | 4                                                     |
| Mounting holes diameter               | 0.6 in (14 mm)                                        |
| Circle diameter of the mounting holes | 8.5 in (215 mm)                                       |
| Net Weight                            | 83.6 lb(US) (37.9 kg)                                 |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC5318282  |
| Discount Schedule | PC53          |
| GTIN              | 3606485202945 |
| Returnability     | No            |
| Country of origin | DE            |

## Packing Units

|                              |                       |
|------------------------------|-----------------------|
| Unit Type of Package 1       | PCE                   |
| Number of Units in Package 1 | 1                     |
| Package 1 Height             | 14.2 in (36.0 cm)     |
| Package 1 Width              | 12.2 in (31.0 cm)     |
| Package 1 Length             | 22.8 in (58.0 cm)     |
| Package 1 Weight             | 94.8 lb(US) (43.0 kg) |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



**Green Premium™** label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information   [Yes](#)

✓ Pvc Free

Certifications & Standards

|                           |                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation          | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                               |
| Eu Rohs Directive         | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                      |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a>                                                                                                                                                                                                                          |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                   |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.                                                                                                                                    |
| Circularity Profile       | No need of specific recycling operations                                                                                                                                                                                                                        |
| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="#">www.P65Warnings.ca.gov</a> |