# Product data sheet

Specifications



## servo motor BMH, Lexium 32, 24Nm, 4000rpm, keyed shaft, with brake, IP65, IP67, 16bit encoder, straight

BMH1403P36F1A

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

## Main

| | |
|---|---|
| **Device short name** | BMH |
| **Product or Component Type** | Servo motor |
| **Maximum mechanical speed** | 4000 rpm |
| **Continuous stall torque** | 212.4 lbf.in (24 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>212.4 lbf.in (24 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Peak stall torque** | 635.5 lbf.in (71.8 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>635.5 lbf.in (71.8 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal output power** | 4700 W LXM32.D72N4 24 A, 400 V, three phase<br>4700 W LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal torque** | 123.20 lbf.in (13.92 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>123.20 lbf.in (13.92 N.m) LXM32.D72N4 24 A, 480 V, three phase |
| **Nominal speed** | 3000 rpm LXM32.D72N4 24 A, 400 V, three phase<br>3000 rpm LXM32.D72N4 24 A, 480 V, three phase |
| **Product compatibility** | LXM32.D72N4 400...480 V three phase |
| **Shaft end** | Keyed |
| **IP Degree of Protection** | IP65 standard<br>IP67 with IP67 kit |
| **Speed feedback resolution** | 32768 points/turn |
| **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** | 18 A |
| **Continuous power** | 4.8 W |
| **Maximum current Irms** | 62.3 A LXM32.D72N4 |
| **Maximum permanent current** | 62.3 A |
| **Second shaft** | Without second shaft end |
| **Shaft diameter** | 0.9 in (24 mm) |
| **Shaft length** | 2.0 in (50 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

| | |
|---|---|
| **key width** | 1.6 in (40 mm) |
| **Feedback type** | Single turn SinCos Hiperface |
| **Holding torque** | 203.6 lbf.in (23 N.m) holding brake |
| **Motor flange size** | 5.5 in (140 mm) |
| **Number of motor stacks** | 3 |
| **Torque constant** | 1.34 N.m/A 248 °F (120 °C) |
| **Back emf constant** | 85.9 V/krpm 248 °F (120 °C) |
| **Number of motor poles** | 10 |
| **Rotor inertia** | 50.27 kg.cm² |
| **Stator resistance** | 0.22 Ohm 68 °F (20 °C) |
| **Stator inductance** | 3 mH 68 °F (20 °C) |
| **Stator electrical time constant** | 13.6 ms 68 °F (20 °C) |
| **Maximum radial force Fr** | 2420 N 1000 rpm<br>1920 N 2000 rpm<br>1680 N 3000 rpm |
| **Maximum axial force Fa** | 0.2 x Fr |
| **Brake pull-in power** | 19 W |
| **type of cooling** | Natural convection |
| **Length** | 10.5 in (267 mm) |
| **Centring collar diameter** | 5.1 in (130 mm) |
| **centring collar depth** | 0.1 in (3.5 mm) |
| **Number of mounting holes** | 4 |
| **Mounting holes diameter** | 0.4 in (11 mm) |
| **Circle diameter of the mounting holes** | 6.5 in (165 mm) |
| **Net Weight** | 40.8 lb(US) (18.5 kg) |

## Ordering and shipping details

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|---|---|
| **Category** | US1PC5318282 |
| **Discount Schedule** | PC53 |
| **GTIN** | 3606485208213 |
| **Returnability** | No |
| **Country of origin** | DE |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 10.24 in (26.0 cm) |
| **Package 1 Width** | 7.87 in (20.0 cm) |
| **Package 1 Length** | 23.62 in (60.0 cm) |
| **Package 1 Weight** | 41.51 lb(US) (18.83 kg) |

## Contractual warranty

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

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Carbon footprint (kg CO2 eq, Total Life cycle) | **5196** |
| Environmental Disclosure | **Product Environmental Profile** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **No** |
| SCIP Number | **A7df881f-135f-4256-b8c2-ea55d4c9a151** |
| China RoHS Regulation | **China RoHS declaration** |
| 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 www.P65Warnings.ca.gov** |
| PVC free | **Yes** |

## Use Again

### Repack and remanufacture

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|---|---|
| Circularity Profile | **No need of specific recycling operations** |
| WEEE | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.** |
| Take-back | **No** |