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

# **Product data sheet**

Specifications





servo motor BMH, Lexium 32, 30Nm, 5000rpm, untapped shaft, with brake, IP65, IP67, 128 multiturn encoder

BMH1901P22F2A

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

Price\*: 3,963.00 USD

#### Main

| ВМН  |
|--|
| Servo motor  |
| 4000 rpm   |
| 265.5 lbf.in (30 N.m) LXM32.D72N4 24 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32.D72N4 24 A, 480 V, three phase 265.5 lbf.in (30 N.m) LXM32MD85N4 32 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32MD85N4 32 A, 480 V, three phase 265.5 lbf.in (30 N.m) LXM32MD85N4 32 A, 480 V, three phase 265.5 lbf.in (30 N.m) LXM32MC10N4 40 A, 400 V, three phase 265.5 lbf.in (30 N.m) LXM32MC10N4 40 A, 480 V, three phase |
| 687.7 lbf.in (77.7 N.m) LXM32.D72N4 24 A, 400 V, three phase 687.7 lbf.in (77.7 N.m) LXM32.D72N4 24 A, 480 V, three phase 766.5 lbf.in (86.6 N.m) LXM32MD85N4 32 A, 400 V, three phase 766.5 lbf.in (86.6 N.m) LXM32MD85N4 32 A, 480 V, three phase 793.9 lbf.in (89.7 N.m) LXM32MC10N4 40 A, 400 V, three phase 793.9 lbf.in (89.7 N.m) LXM32MC10N4 40 A, 480 V, three phase  |
| 4800 W LXM32.D72N4 24 A, 400 V, three phase<br>4800 W LXM32.D72N4 24 A, 480 V, three phase<br>5180 W LXM32MD85N4 32 A, 400 V, three phase<br>5180 W LXM32MD85N4 32 A, 480 V, three phase<br>5180 W LXM32MC10N4 40 A, 400 V, three phase<br>5180 W LXM32MC10N4 40 A, 480 V, three phase   |
| 162.9 lbf.in (18.4 N.m) LXM32.D72N4 24 A, 400 V, three phase<br>162.9 lbf.in (18.4 N.m) LXM32.D72N4 24 A, 480 V, three phase<br>146.04 lbf.in (16.5 N.m) LXM32MD85N4 32 A, 400 V, three phase<br>146.04 lbf.in (16.5 N.m) LXM32MD85N4 32 A, 480 V, three phase<br>146.04 lbf.in (16.5 N.m) LXM32MC10N4 40 A, 400 V, three phase<br>146.04 lbf.in (16.5 N.m) LXM32MC10N4 40 A, 480 V, three phase                             |
| 2500 rpm LXM32.D72N4 24 A, 400 V, three phase<br>2500 rpm LXM32.D72N4 24 A, 480 V, three phase<br>3000 rpm LXM32MD85N4 32 A, 400 V, three phase<br>3000 rpm LXM32MD85N4 32 A, 480 V, three phase<br>3000 rpm LXM32MC10N4 40 A, 400 V, three phase<br>3000 rpm LXM32MC10N4 40 A, 480 V, three phase   |
| LXM32.D72N4 400480 V three phase   |
| Smooth shaft   |
| IP65 standard<br>IP67 with IP67 kit  |
| 131072 points/turn x 4096 turns  |
| With   |
| International standard flange  |
| Rotatable right-angled connectors  |
|  |

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

## Complementary

| o o in promontary                     |                                      |
|---------------------------------------|--------------------------------------|
| Range Compatibility                   | Lexium 32                            |
| [Us] rated supply voltage             | 480 V                                |
| Phase                                 | Three phase                          |
| Continuous stall current              | 23.2 A                               |
| Continuous power                      | 5.24 W                               |
| Maximum current Irms                  | 72 A LXM32.D72N4                     |
| Maximum permanent current             | 89.6 A                               |
| Second shaft                          | Without second shaft end             |
| Shaft diameter                        | 1.5 in (38 mm)                       |
| 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                     | 7.5 in (190 mm)                      |
| Number of motor stacks                | 1                                    |
| Torque constant                       | 1.3 N.m/A 248 °F (120 °C)            |
| Back emf constant                     | 87.6 V/krpm 248 °F (120 °C)          |
| Number of motor poles                 | 10                                   |
| Rotor inertia                         | 71.7 kg.cm <sup>2</sup>              |
| Stator resistance                     | 0.24 Ohm 68 °F (20 °C)               |
| Stator inductance                     | 5.08 mH 68 °F (20 °C)                |
| Stator electrical time constant       | 21.2 ms 68 °F (20 °C)                |
| Maximum radial force Fr               | 3730 N 1000 rpm                      |
| Maximum axial force Fa                | 0.2 x Fr                             |
| Brake pull-in power                   | 40 W                                 |
| Type of cooling                       | Natural convection                   |
| Length                                | 9.8 in (250 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                            | 45.2 lb(US) (20.5 kg)                |
|                                       |                                      |

# Ordering and shipping details

| Category          | US1PC5318282  |  |
|-------------------|---------------|--|
| Discount Schedule | dule PC53     |  |
| GTIN              | 3606485266138 |  |
| Returnability     | No            |  |
| Country of origin | DE            |  |

## **Packing Units**

| •                            |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 11.811 in (30.000 cm)      |
| Package 1 Width              | 15.748 in (40.000 cm)      |
| Package 1 Length             | 31.496 in (80.000 cm)      |
| Package 1 Weight             | 47.399 lb(US) (21.500 kg)  |
| Unit Type of Package 2       | P12                        |
| Number of Units in Package 2 | 3                          |
| Package 2 Height             | 17.717 in (45.000 cm)      |
| Package 2 Width              | 31.496 in (80.000 cm)      |
| Package 2 Length             | 47.244 in (120.000 cm)     |
| Package 2 Weight             | 168.654 lb(US) (76.500 kg) |

### Sustainability Green Premium

**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

#### Well-being performance

|          | Mercury Free               |     |
|----------|----------------------------|-----|
| <b>⊘</b> | Rohs Exemption Information | Yes |
| <b>⊘</b> | Pvc Free                   |     |

#### **Certifications & Standards**

| Reach Regulation          | REACh Declaration   |
|---------------------------|---|
| Eu Rohs Directive         | Pro-active compliance (Product out of EU RoHS legal scope)  |
| China Rohs Regulation     | China RoHS declaration  |
| Environmental Disclosure  | Product Environmental Profile   |
| 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 www.P65Warnings.ca.gov" |