



## Main

|                           |   |
|---------------------------|---|
| Product or component type | Servo motor   |
| Device short name         | BSH   |
| Maximum mechanical speed  | 10000 Rpm   |
| Continuous stall torque   | 0.38 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase<br>0.38 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase<br>0.38 N.M for LXM32.U45M2 at 1.5 A, 230 V, single phase    |
| Peak stall torque         | 1.37 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase<br>1.37 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase<br>1.37 N.M for LXM32.U45M2 at 1.5 A, 230 V, single phase    |
| Nominal output power      | 275 W for LXM32.U60N4 at 1.5 A, 480 V, three phase<br>289 W for LXM32.U60N4 at 1.5 A, 400 V, three phase<br>152 W for LXM32.U45M2 at 1.5 A, 230 V, single phase             |
| Nominal torque            | 0.292 N.M for LXM32.U60N4 at 1.5 A, 480 V, three phase<br>0.307 N.M for LXM32.U60N4 at 1.5 A, 400 V, three phase<br>0.364 N.M for LXM32.U45M2 at 1.5 A, 230 V, single phase |
| Nominal speed             | 9000 rpm for LXM32.U60N4 at 1.5 A, 480 V, three phase<br>9000 rpm for LXM32.U60N4 at 1.5 A, 400 V, three phase<br>4000 rpm for LXM32.U45M2 at 1.5 A, 230 V, single phase    |
| Shaft end                 | Keyed   |
| IP degree of protection   | IP50 standard   |
| Speed feedback resolution | 32768 points/turn x 4096 turns  |
| Holding brake             | With  |
| Mounting support          | International standard flange   |
| Electrical connection     | Rotatable right-angled connectors   |

## Complementary

|                           |  |
|---------------------------|--|
| Range compatibility       | Lexium 32  |
| [Us] rated supply voltage | 400 V  |
| Network number of phases  | Three phase  |
| Continuous stall current  | 1.5 A  |
| Continuous power          | 398 W  |
| Maximum current Irms      | 6 A for LXM32.U60N4 at 480 V<br>6 A for LXM32.U60N4 at 400 V<br>6 A for LXM32.U45M2 at 230 V |
| Maximum permanent current | 1.5 A  |
| Switching frequency       | 8 kHz  |
| Second shaft              | Without second shaft end   |
| Shaft diameter            | 8 Mm   |
| Shaft length              | 25 Mm  |

|                                       |                            |
|---------------------------------------|----------------------------|
| Key width                             | 12 Mm                      |
| Feedback type                         | Multiturn SinCos Hiperface |
| Holding torque                        | 0.4 N.M holding brake      |
| Motor flange size                     | 40 Mm                      |
| Number of motor stacks                | 2                          |
| Torque constant                       | 0.253 N.M/A at 120 °C      |
| Back emf constant                     | 18 V/Krpm at 20 °C         |
| Number of motor poles                 | 10                         |
| Rotor inertia                         | 0.0588 Kg.Cm <sup>2</sup>  |
| Stator resistance                     | 11.6 Ohm at 20 °C          |
| Stator inductance                     | 12.8 MH at 20 °C           |
| Stator electrical time constant       | 1.1 Ms at 20 °C            |
| Maximum axial force Fa                | 0.2 x Fr                   |
| Brake pull-in power                   | 5.8 W                      |
| Type of cooling                       | Natural convection         |
| Length                                | 119.4 Mm                   |
| Centring collar diameter              | 30 Mm                      |
| Centring collar depth                 | 2.5 Mm                     |
| Number of mounting holes              | 4                          |
| Mounting holes diameter               | 4.5 Mm                     |
| Circle diameter of the mounting holes | 46 Mm                      |
| Net weight                            | 0.8 Kg                     |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>                              |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| 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 |

