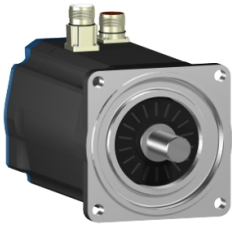


Product datasheet

Specifications



servo motor BSH, Lexium 15,
11.1N.m, 1500rpm, 140mm, keyed
shaft, Sincos single turn, with brake,
IP50, straight

BSH1401M11F1A

! Discontinued

Main

| | |
|---------------------------|--|
| Device short name | BSH |
| Product or component type | Servo motor |
| Maximum mechanical speed | 4000 rpm |
| Continuous stall torque | 11.1 N.m for LXM15MD28N4, 400 V, three phase 11.1 N.m for LXM15MD28N4, 480 V, three phase |
| Peak stall torque | 26 N.m for LXM15MD28N4, 400 V, three phase 26 N.m for LXM15MD28N4, 480 V, three phase |
| Nominal output power | 1500 W for LXM15MD28N4, 400 V, three phase 1500 W for LXM15MD28N4, 480 V, three phase |
| Nominal torque | 10.1 N.m for LXM15MD28N4, 480 V, three phase 10.4 N.m for LXM15MD28N4, 400 V, three phase |
| Nominal speed | 1500 rpm for LXM15MD28N4, 400 V, three phase 1500 rpm for LXM15MD28N4, 480 V, three phase |
| Product compatibility | LXM15MD28N4 at 400 V three phase LXM15MD28N4 at 480 V three phase |
| Shaft end | Keyed |
| IP degree of protection | IP50 standard |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |

Complementary

| | |
|---------------------------|--------------------------|
| Range compatibility | Lexium 15 |
| supply voltage max | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 4 A |
| maximum continuous power | 4.1 W |
| Maximum current Irms | 10.8 A for LXM15MD28N4 |
| Maximum permanent current | 10.8 A |
| Second shaft | Without second shaft end |
| Shaft diameter | 24 mm |
| Shaft length | 50 mm |

| | |
|--|--|
| Key width | 40 mm |
| Feedback type | Single turn SinCos Hiperface |
| Holding torque | 23 N.m holding brake |
| Motor flange size | 140 mm |
| Torque constant | 2.78 N.m/A at 120 °C |
| Back emf constant | 194 V/krpm at 120 °C |
| Number of motor poles | 10 |
| Rotor inertia | 8.56 kg.cm ² |
| Stator resistance | 5.3 Ohm at 20 °C |
| Stator inductance | 60.85 mH at 20 °C |
| Stator electrical time constant | 11.59 ms at 20 °C |
| Maximum radial force Fr | 1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 24 W |
| Type of cooling | Natural convection |
| Length | 255.5 mm |
| Centring collar diameter | 130 mm |
| Centring collar depth | 3.5 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 11 mm |
| Circle diameter of the mounting holes | 165 mm |
| Product weight | 13 kg |
| Sizing reference | BSH1401M |
| Network number of phases | 3 |
| Accuracy error [angular] | 1.4 ° |
| Temperature copper hot | 120 °C |
| Temperature magnet hot | 100 °C |
| Temperature magnet rt | 20 °C |

Packing Units

| | |
|-------------------------------------|-----|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

Contractual warranty

| | |
|-----------------------------|----|
| Warranty (in months) | 18 |
|-----------------------------|----|



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 >](#)

Use Longer



Lifetime extension

Repair

No