

Product data sheet

Specifications



AC servo motor BSH - 0.9 N.m - 5000 rpm - untapped shaft - without brake - IP50

BSH0552M01A2A

⚠ Discontinued on: 8 Feb 2021

⚠ Discontinued

Main

| | |
|---------------------------|---|
| Device short name | BSH |
| Product or component type | Servo motor |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 0.9 N.m for LXM05CU70M2, 200...240 V, single phase 0.9 N.m for LXM05AD10M2, 200...240 V, single phase 0.9 N.m for LXM05BD10M2, 200...240 V, single phase 0.9 N.m for LXM05CD10M2, 200...240 V, single phase 0.9 N.m for LXM15LU60N4, 480 V, three phase 0.9 N.m for LXM15LU60N4, 400 V, three phase 0.9 N.m for LXM05AD10M3X, 200...240 V, three phase 0.9 N.m for LXM05BD10M3X, 200...240 V, three phase 0.9 N.m for LXM05CD10M3X, 200...240 V, three phase |
| Peak stall torque | 2.3 N.m for LXM05CU70M2, 200...240 V, single phase 2.3 N.m for LXM05AD10M2, 200...240 V, single phase 2.3 N.m for LXM05BD10M2, 200...240 V, single phase 2.3 N.m for LXM05CD10M2, 200...240 V, single phase 2.25 N.m for LXM15LU60N4, 480 V, three phase 2.25 N.m for LXM15LU60N4, 400 V, three phase 2.3 N.m for LXM05AD10M3X, 200...240 V, three phase 2.3 N.m for LXM05BD10M3X, 200...240 V, three phase 2.3 N.m for LXM05CD10M3X, 200...240 V, three phase |
| Nominal output power | 130 W for LXM05AD10M2, 200...240 V, single phase 130 W for LXM05BD10M2, 200...240 V, single phase 130 W for LXM05CD10M2, 200...240 V, single phase 130 W for LXM05CU70M2, 200...240 V, single phase 130 W for LXM05AD10M3X, 200...240 V, three phase 130 W for LXM05BD10M3X, 200...240 V, three phase 130 W for LXM05CD10M3X, 200...240 V, three phase 320 W for LXM15LU60N4, 400 V, three phase 400 W for LXM15LU60N4, 480 V, three phase |
| Nominal torque | 0.85 N.m for LXM05AD10M2, 200...240 V, single phase 0.85 N.m for LXM05BD10M2, 200...240 V, single phase 0.85 N.m for LXM05CD10M2, 200...240 V, single phase 0.85 N.m for LXM05CU70M2, 200...240 V, single phase 0.77 N.m for LXM15LU60N4, 400 V, three phase 0.77 N.m for LXM15LU60N4, 480 V, three phase 0.85 N.m for LXM05AD10M3X, 200...240 V, three phase 0.85 N.m for LXM05BD10M3X, 200...240 V, three phase 0.85 N.m for LXM05CD10M3X, 200...240 V, three phase |
| Nominal speed | 1500 rpm for LXM05AD10M2, 200...240 V, single phase 1500 rpm for LXM05BD10M2, 200...240 V, single phase 1500 rpm for LXM05CD10M2, 200...240 V, single phase 1500 rpm for LXM05CU70M2, 200...240 V, single phase 1500 rpm for LXM05AD10M3X, 200...240 V, three phase 1500 rpm for LXM05BD10M3X, 200...240 V, three phase 1500 rpm for LXM05CD10M3X, 200...240 V, three phase 4000 rpm for LXM15LU60N4, 400 V, three phase 5000 rpm for LXM15LU60N4, 480 V, three phase |

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|----------------------------------|---|
| Product compatibility | LXM05AD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05CU70M2 at 200...240 V single phase LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase LXM15LU60N4 at 400 V three phase LXM15LU60N4 at 480 V three phase |
| Shaft end | Untapped |
| IP degree of protection | IP50 standard |
| Speed feedback resolution | 131072 points/turn |
| Holding brake | Without |
| Mounting support | International standard flange |
| Electrical connection | Rotatable right-angled connectors |

Complementary

| | |
|--|---|
| Range compatibility | Lexium 15 Lexium 05 |
| supply voltage max | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 0.6 A |
| maximum continuous power | 0.67 W |
| Maximum current Irms | 2.4 A for LXM15LU60N4 2.6 A for LXM05CU70M2 2.6 A for LXM05AD10M2 2.6 A for LXM05AD10M3X 2.6 A for LXM05BD10M2 2.6 A for LXM05BD10M3X 2.6 A for LXM05CD10M2 2.6 A for LXM05CD10M3X |
| Maximum permanent current | 2.6 A |
| Switching frequency | 4 kHz |
| Second shaft | Without second shaft end |
| Shaft diameter | 9 mm |
| Shaft length | 20 mm |
| Feedback type | Single turn SinCos Hiperface |
| Motor flange size | 55 mm |
| Number of motor stacks | 2 |
| Torque constant | 1.125 N.m/A at 120 °C |
| Back emf constant | 74 V/krpm at 120 °C |
| Rotor inertia | 0.14 kg.cm ² |
| Stator resistance | 60.2 Ohm at 20 °C 62 Ohm at 20 °C |
| Stator inductance | 122 mH at 20 °C 76.8 mH at 20 °C |
| Stator electrical time constant | 1.24 ms at 20 °C 2.03 ms at 20 °C |

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| Maximum radial force Fr | 190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm 260 N at 3000 rpm 290 N at 2000 rpm 370 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Type of cooling | Natural convection |
| Length | 154.4 mm |
| Centring collar diameter | 40 mm |
| Centring collar depth | 2 mm |
| Number of mounting holes | 4 |
| Mounting holes diameter | 5.5 mm |
| Circle diameter of the mounting holes | 63 mm |
| Product weight | 1.5 kg |
| Sizing reference | BSH0552M |
| 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 |
| Package 1 Height | 12.3 cm |
| Package 1 Width | 12.8 cm |
| Package 1 Length | 37.7 cm |
| Package 1 Weight | 1.1 kg |

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