



Main

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| Product or component type | Servo motor |
| Device short name | BSH |
| Maximum mechanical speed | 8000 rpm |
| Continuous stall torque | 1.3 N.m for LXM05AD10M2 at 200...240 V single phase 1.3 N.m for LXM05BD10M2 at 200...240 V single phase 1.3 N.m for LXM05CD10M2 at 200...240 V single phase 1.3 N.m for LXM15LU60N4 at 400 V three phase 1.3 N.m for LXM15LU60N4 at 480 V three phase 1.3 N.m for LXM05AD10M3X at 200...240 V three phase 1.3 N.m for LXM05BD10M3X at 200...240 V three phase 1.3 N.m for LXM05CD10M3X at 200...240 V three phase |
| Peak stall torque | 3.5 N.m for LXM05AD10M2 at 200...240 V single phase 3.5 N.m for LXM05BD10M2 at 200...240 V single phase 3.5 N.m for LXM05CD10M2 at 200...240 V single phase 3.5 N.m for LXM15LU60N4 at 400 V three phase 3.5 N.m for LXM15LU60N4 at 480 V three phase 3.5 N.m for LXM05AD10M3X at 200...240 V three phase 3.5 N.m for LXM05BD10M3X at 200...240 V three phase 3.5 N.m for LXM05CD10M3X at 200...240 V three phase |
| Nominal output power | 190 W for LXM05AD10M2 at 200...240 V single phase 190 W for LXM05BD10M2 at 200...240 V single phase 190 W for LXM05CD10M2 at 200...240 V single phase 190 W for LXM05AD10M3X at 200...240 V three phase 190 W for LXM05BD10M3X at 200...240 V three phase 190 W for LXM05CD10M3X at 200...240 V three phase 460 W for LXM15LU60N4 at 400 V three phase 524 W for LXM15LU60N4 at 480 V three phase |
| Nominal torque | 1.2 N.m for LXM05AD10M2 at 200...240 V single phase 1.2 N.m for LXM05BD10M2 at 200...240 V single phase 1.2 N.m for LXM05CD10M2 at 200...240 V single phase 1.1 N.m for LXM15LU60N4 at 400 V three phase 1.1 N.m for LXM15LU60N4 at 480 V three phase 1.2 N.m for LXM05AD10M3X at 200...240 V three phase 1.2 N.m for LXM05BD10M3X at 200...240 V three phase 1.2 N.m for LXM05CD10M3X at 200...240 V three phase |
| Nominal speed | 1500 rpm for LXM05AD10M2 at 200...240 V single phase 1500 rpm for LXM05BD10M2 at 200...240 V single phase |

1500 rpm for LXM05CD10M2 at 200...240 V single phase
 1500 rpm for LXM05AD10M3X at 200...240 V three phase
 1500 rpm for LXM05BD10M3X at 200...240 V three phase
 1500 rpm for LXM05CD10M3X at 200...240 V three phase
 4000 rpm for LXM15LU60N4 at 400 V three phase
 5000 rpm for LXM15LU60N4 at 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 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 | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |

Complementary

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|---------------------------------|--|
| Range compatibility | Lexium 05 Lexium 15 |
| Supply voltage max | 480 V |
| Network number of phases | Three phase |
| Continuous stall current | 0.9 A |
| Maximum continuous power | 0.97 W |
| Maximum current Irms | 3.4 A for LXM05AD10M2 3.4 A for LXM05AD10M3X 3.4 A for LXM05BD10M2 3.4 A for LXM05BD10M3X 3.4 A for LXM05CD10M2 3.4 A for LXM05CD10M3X 3.6 A for LXM15LU60N4 |
| Maximum permanent current | 3.4 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 |
| Holding torque | 0.8 N.m (holding brake) |
| Motor flange size | 55 mm |
| Number of motor stacks | 3 |
| Torque constant | 1.18 N.m/A at 120 °C 1.33 N.m/A at 120 °C |
| Back emf constant | 78 V/krpm at 120 °C 79 V/krpm at 120 °C |
| Number of motor poles | 6 |
| Rotor inertia | 0.2113 kg.cm ² |
| Stator resistance | 32 Ohm at 20 °C 38.4 Ohm at 20 °C |
| Stator inductance | 48 mH at 20 °C 92.2 mH at 20 °C |
| Stator electrical time constant | 1.5 ms at 20 °C 2.4 ms at 20 °C |
| Maximum radial force Fr | 190 N at 8000 rpm 200 N at 7000 rpm 210 N at 6000 rpm 230 N at 5000 rpm 240 N at 4000 rpm |

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|---------------------------------------|---|
| | 270 N at 3000 rpm 310 N at 2000 rpm 390 N at 1000 rpm |
| Maximum axial force Fa | 0.2 x Fr |
| Brake pull-in power | 10 W |
| Type of cooling | Natural convection |
| Length | 203 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 | 1.9 kg |

Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 0850 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Need no specific recycling operations |

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
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