Product data sheet Characteristics

BSH0701M32F1A

AC servo motor BSH - 1.4 Nm - 8000 rpm - key shaft - with brake - IP65

| Main | |
|-----------------------------|---|
| Product or component type | AC servo motors |
| Component name | BSH |
| Continuous stall torque | 1.4 N.m for LXM05AD10M3X at 200240 V 3 phases es 1.4 N.m for LXM05BD10M3X at 200240 V 3 phases |
| | es |
| | 1.4 N.m for LXM05CD10M3X at 200240 V 3 phases |
| Peak stall torque | 2.66 N.m for LXM05AD10M3X at 200240 V 3 phases |
| | 2.66 N.m for LXM05BD10M3X at 200240 V 3 phases |
| | 2.66 N.m for LXM05CD10M3X at 200240 V 3 phases |
| Nominal output power | 210 W for LXM05AD10M3X at 200240 V 3 phases 210 W for LXM05BD10M3X at 200240 V 3 phases 210 W for LXM05CD10M3X at 200240 V 3 phases |
| Nominal speed | 1500 rpm for LXM05AD10M3X at 200240 V 3 phases 1500 rpm for LXM05BD10M3X at 200240 V 3 phases |
| | 1500 rpm for LXM05CD10M3X at 200240 V 3 phases |
| Maximum mechanical speed | 8000 rpm |
| Product compatibility | LXM05AD10M3X at 200240 V 3 phases LXM05BD10M3X at 200240 V 3 phases LXM05CD10M3X at 200240 V 3 phases |
| Shaft end | Keyed |
| IP degree of protection | IP65 |
| Encoder type | Absolute multiturn SinCos Hiperface |
| Encoder feedback resolution | 131072 points/turn x 4096 turns |
| Holding brake | With |
| Mounting support | International standard flange |
| Electrical connection | Straight connectors |
| Number of poles | 6 |
| | |

Complementary

| Range compatibility | Lexium 05 |
|---|--|
| Nominal torque | 1.36 N.m for LXM05AD10M3X at 200240 V 3 phases 1.36 N.m for LXM05BD10M3X at 200240 V 3 phases 1.36 N.m for LXM05CD10M3X at 200240 V 3 phases |
| Maximum current Irms | 3.1 A for LXM05AD10M3X 3.1 A for LXM05BD10M3X 3.1 A for LXM05CD10M3X |
| Switching frequency | 4 kHz for LEX05 |
| Torque constant | 1.4 N.m/A rms at 120 °C |
| Back electromagnetical force (emf) constant | 85 V rms/krpm at 120 °C |
| Rotor inertia | 0.322 kg.cm² with brake |
| Stator resistance | 35.4 Ohm at 20 °C |
| Stator inductance | 131.9 mH at 20 °C |
| Stator electrical time constant | 3.73 ms at 20 °C |
| | |

| Maximum radial force Fr | 360 N at 6000 rpm | |
|-------------------------|-------------------|--|
| | 380 N at 5000 rpm | |
| | 410 N at 4000 rpm | |
| | 460 N at 3000 rpm | |
| | 520 N at 2000 rpm | |
| | 660 N at 1000 rpm | |
| Maximum axial force Fa | 0.2 x Fr | |
| Product weight | 2.2 kg | |
| | | |
| Environment | | |

| RoHS EUR conformity date | 0850 |
|--------------------------|-----------|
| RoHS EUR status | Compliant |