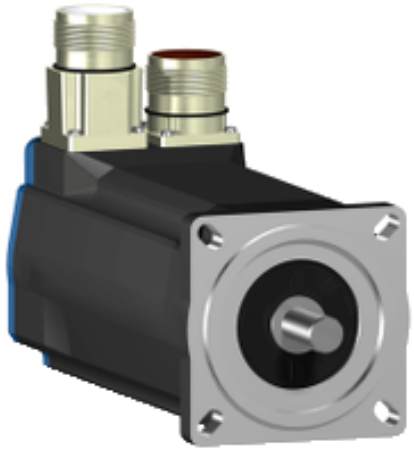
Product data sheet
Characteristics

BSH0702M02A1A
AC servo motor BSH, Lexium 05, 2.12N.m, 3000rpm, untapped shaft, without brake, IP50



Commercial status
End of Commercialisation :

⚠ End of Commercialisation

Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 Rpm
Continuous stall torque	2.12 N.M for LXM15LU60N4, 400 V, three phase 2.12 N.M for LXM15LU60N4, 480 V, three phase 2.12 N.M for LXM05AD10M2, 200...240 V, single phase 2.12 N.M for LXM05AD10M3X, 200...240 V, three phase 2.12 N.M for LXM05BD10M2, 200...240 V, single phase 2.12 N.M for LXM05BD10M3X, 200...240 V, three phase 2.12 N.M for LXM05CD10M2, 200...240 V, single phase 2.12 N.M for LXM05CD10M3X, 200...240 V, three phase
Peak stall torque	5.63 N.M for LXM05AD10M2, 200...240 V, single phase 5.63 N.M for LXM05BD10M2, 200...240 V, single phase 5.63 N.M for LXM05CD10M2, 200...240 V, single phase 5.63 N.M for LXM15LU60N4, 400 V, three phase 5.63 N.M for LXM15LU60N4, 480 V, three phase 5.63 N.M for LXM05AD10M3X, 200...240 V, three phase 5.63 N.M for LXM05BD10M3X, 200...240 V, three phase 5.63 N.M for LXM05CD10M3X, 200...240 V, three phase
Nominal output power	300 W for LXM05AD10M2, 200...240 V, single phase 300 W for LXM05BD10M2, 200...240 V, single phase 300 W for LXM05CD10M2, 200...240 V, single phase 300 W for LXM05AD10M3X, 200...240 V, three phase 300 W for LXM05BD10M3X, 200...240 V, three phase 300 W for LXM05CD10M3X, 200...240 V, three phase 594 W for LXM15LU60N4, 400 V, three phase 753 W for LXM15LU60N4, 480 V, three phase
Nominal torque	2 N.M for LXM05AD10M2, 200...240 V, single phase 2 N.M for LXM05BD10M2, 200...240 V, single phase 2 N.M for LXM05CD10M2, 200...240 V, single phase 1.8 N.M for LXM15LU60N4, 480 V, three phase 1.89 N.M for LXM15LU60N4, 400 V, three phase 2 N.M for LXM05AD10M3X, 200...240 V, three phase 2 N.M for LXM05BD10M3X, 200...240 V, three phase 2 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 LXM05AD10M3X, 200...240 V, three phase 1500 rpm for LXM05BD10M3X, 200...240 V, three phase 1500 rpm for LXM05CD10M3X, 200...240 V, three phase 3000 rpm for LXM15LU60N4, 400 V, three phase 4000 rpm for LXM15LU60N4, 480 V, three phase

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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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 x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 15 Lexium 05
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	1.5 A
Continuous power	1.51 W
Maximum current Irms	5.9 A for LXM15LU60N4 6 A for LXM05AD10M2 6 A for LXM05AD10M3X 6 A for LXM05BD10M2 6 A for LXM05BD10M3X 6 A for LXM05CD10M2 6 A for LXM05CD10M3X
Maximum permanent current	6 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	11 Mm
Shaft length	23 Mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	70 Mm
Torque constant	1.46 N.M/A at 120 °C 1.47 N.M/A at 120 °C
Back emf constant	93 V/Krpm at 120 °C 95 V/Krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.41 Kg.Cm²
Stator resistance	16.4 Ohm at 20 °C 17.3 Ohm at 20 °C
Stator inductance	74.1 MH at 20 °C 84.4 MH at 20 °C
Stator electrical time constant	4.52 Ms at 20 °C 4.88 Ms at 20 °C
Maximum radial force Fr	390 N at 6000 rpm 410 N at 5000 rpm 450 N at 4000 rpm 490 N at 3000 rpm 560 N at 2000 rpm 710 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	187 Mm
Centring collar diameter	60 Mm
Centring collar depth	2.5 Mm
Number of mounting holes	4
Mounting holes diameter	5.5 Mm
Circle diameter of the mounting holes	82 Mm
Net weight	2.89 Kg

Packing Units

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

Contractual warranty

Warranty	18 months

Product Life Status : End of commercialisation