



## 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	1.4 N.M for LXM05AD10M3X, 200...240 V, three phase 1.4 N.M for LXM05BD10M3X, 200...240 V, three phase 1.4 N.M for LXM05CD10M3X, 200...240 V, three phase
Peak stall torque	2.66 N.M for LXM05AD10M3X, 200...240 V, three phase 2.66 N.M for LXM05BD10M3X, 200...240 V, three phase 2.66 N.M for LXM05CD10M3X, 200...240 V, three phase
Nominal output power	210 W for LXM05AD10M3X, 200...240 V, three phase 210 W for LXM05BD10M3X, 200...240 V, three phase 210 W for LXM05CD10M3X, 200...240 V, three phase
Nominal torque	1.36 N.M for LXM05AD10M3X, 200...240 V, three phase 1.36 N.M for LXM05BD10M3X, 200...240 V, three phase 1.36 N.M for LXM05CD10M3X, 200...240 V, three phase
Nominal speed	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
Product compatibility	LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase
Shaft end	Keyed
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

## Complementary

Range compatibility	Lexium 05
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	1 A
Continuous power	1.06 W
Maximum current Irms	3.1 A for LXM05AD10M3X 3.1 A for LXM05BD10M3X 3.1 A for LXM05CD10M3X
Maximum permanent current	3.1 A
Switching frequency	4 kHz
Second shaft	Without second shaft end

Shaft diameter	11 Mm
Shaft length	23 Mm
Key width	18 Mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	2 N.M holding brake
Motor flange size	70 Mm
Torque constant	1.4 N.M/A at 120 °C
Back emf constant	85 V/Krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.322 Kg.Cm <sup>2</sup>
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
Brake pull-in power	10 W
Type of cooling	Natural convection
Length	179.5 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	2.3 Kg

### Contractual warranty

Warranty	18 months
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