



## Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	3.4 N.m for LXM05AD14N4 at 380...480 V three phase 3.4 N.m for LXM05BD14N4 at 380...480 V three phase 3.4 N.m for LXM05CD14N4 at 380...480 V three phase
Peak stall torque	7.1 N.m for LXM05AD14N4 at 380...480 V three phase 7.1 N.m for LXM05BD14N4 at 380...480 V three phase 7.1 N.m for LXM05CD14N4 at 380...480 V three phase
Nominal output power	500 W for LXM05AD14N4 at 380...480 V three phase 500 W for LXM05BD14N4 at 380...480 V three phase 500 W for LXM05CD14N4 at 380...480 V three phase
Nominal torque	3.16 N.m for LXM05AD14N4 at 380...480 V three phase 3.16 N.m for LXM05BD14N4 at 380...480 V three phase 3.16 N.m for LXM05CD14N4 at 380...480 V three phase
Nominal speed	1500 rpm for LXM05AD14N4 at 380...480 V three phase 1500 rpm for LXM05BD14N4 at 380...480 V three phase 1500 rpm for LXM05CD14N4 at 380...480 V three phase
Product compatibility	LXM05AD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05CD14N4 at 380...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

Range compatibility	Lexium 05
Supply voltage max	480 V

Network number of phases	Three phase
Continuous stall current	1.8 A
Maximum continuous power	1.6 W
Maximum current Irms	6.3 A for LXM05AD14N4 6.3 A for LXM05BD14N4 6.3 A for LXM05CD14N4
Maximum permanent current	6.3 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	9 N.m (holding brake)
Motor flange size	100 mm
Torque constant	1.83 N.m/A at 120 °C
Back emf constant	115 V/krpm at 120 °C
Number of motor poles	8
Rotor inertia	2.018 kg.cm <sup>2</sup>
Stator resistance	13.9 Ohm at 20 °C
Stator inductance	64.3 mH at 20 °C
Stator electrical time constant	4.63 ms at 20 °C
Maximum radial force Fr	530 N at 5000 rpm 570 N at 4000 rpm 630 N at 3000 rpm 720 N at 2000 rpm 900 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	199.5 mm
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
Product weight	4.8 kg

## Offer Sustainability

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

## Contractual warranty

Warranty period	18 months
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