

# BSH0553M22A2A

AC servo motor BSH - 1.3 N.m - 4000 rpm -  
untapped shaft - without brake - IP65



## Main

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

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	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

## Complementary

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	Multiturn SinCos Hiperface
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	0.19 kg.cm <sup>2</sup>
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 270 N at 3000 rpm

	310 N at 2000 rpm 390 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	176.5 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	1.76 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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