

BSH0552M02F2A

AC servo motor BSH - 0.9 N.m - 5000 rpm -
untapped shaft - with brake - IP50



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	8000 rpm
Continuous stall torque	0.9 N.m for LXM05CU70M2 at 200...240 V single phase 0.9 N.m for LXM05AD10M2 at 200...240 V single phase 0.9 N.m for LXM05BD10M2 at 200...240 V single phase 0.9 N.m for LXM05CD10M2 at 200...240 V single phase 0.9 N.m for LXM15LU60N4 at 480 V three phase 0.9 N.m for LXM15LU60N4 at 400 V three phase 0.9 N.m for LXM05AD10M3X at 200...240 V three phase 0.9 N.m for LXM05BD10M3X at 200...240 V three phase 0.9 N.m for LXM05CD10M3X at 200...240 V three phase
Peak stall torque	2.3 N.m for LXM05CU70M2 at 200...240 V single phase 2.3 N.m for LXM05AD10M2 at 200...240 V single phase 2.3 N.m for LXM05BD10M2 at 200...240 V single phase 2.3 N.m for LXM05CD10M2 at 200...240 V single phase 2.25 N.m for LXM15LU60N4 at 480 V three phase 2.25 N.m for LXM15LU60N4 at 400 V three phase 2.3 N.m for LXM05AD10M3X at 200...240 V three phase 2.3 N.m for LXM05BD10M3X at 200...240 V three phase 2.3 N.m for LXM05CD10M3X at 200...240 V three phase
Nominal output power	130 W for LXM05AD10M2 at 200...240 V single phase 130 W for LXM05BD10M2 at 200...240 V single phase 130 W for LXM05CD10M2 at 200...240 V single phase 130 W for LXM05CU70M2 at 200...240 V single phase 130 W for LXM05AD10M3X at 200...240 V three phase 130 W for LXM05BD10M3X at 200...240 V three phase 130 W for LXM05CD10M3X at 200...240 V three phase 320 W for LXM15LU60N4 at 400 V three phase 400 W for LXM15LU60N4 at 480 V three phase
Nominal torque	0.85 N.m for LXM05AD10M2 at 200...240 V single phase 0.85 N.m for LXM05BD10M2 at 200...240 V single phase 0.85 N.m for LXM05CD10M2 at 200...240 V single phase 0.85 N.m for LXM05CU70M2 at 200...240 V single phase 0.77 N.m for LXM15LU60N4 at 400 V three phase 0.77 N.m for LXM15LU60N4 at 480 V three phase 0.85 N.m for LXM05AD10M3X at 200...240 V three phase 0.85 N.m for LXM05BD10M3X at 200...240 V three phase 0.85 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

Disclaimer: 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

1500 rpm for LXM05CU70M2 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 LXM05CU70M2 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	With
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	0.6 A
Maximum continuous power	0.67 W
Maximum current Irms	2.4 A for LXM15LU60N4 2.6 A for LXM05AD10M2 2.6 A for LXM05AD10M3X 2.6 A for LXM05BD10M2 2.6 A for LXM05BD10M3X 2.6 A for LXM05CD10M2 2.6 A for LXM05CD10M3X 2.6 A for LXM05CU70M2
Maximum permanent current	2.6 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	9 mm
Shaft length	20 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	0.8 N.m (holding brake)
Motor flange size	55 mm
Number of motor stacks	2
Torque constant	1.125 N.m/A at 120 °C
Back emf constant	74 V/krpm at 120 °C
Number of motor poles	6
Rotor inertia	0.1613 kg.cm ²
Stator resistance	60.2 Ohm at 20 °C 62 Ohm at 20 °C
Stator inductance	122 mH at 20 °C 76.8 mH at 20 °C
Stator electrical time constant	1.24 ms at 20 °C 2.03 ms at 20 °C
Maximum radial force Fr	190 N at 7000 rpm 190 N at 8000 rpm 200 N at 6000 rpm 220 N at 5000 rpm 230 N at 4000 rpm

260 N at 3000 rpm
290 N at 2000 rpm
370 N at 1000 rpm

Maximum axial force Fa	0.2 x Fr
Brake pull-in power	10 W
Type of cooling	Natural convection
Length	181 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	1.6 kg

Offer Sustainability

RoHS (date code: YYWW)	Compliant - since 0850 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold

Contractual warranty

Warranty period	18 months
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