

BSH0552P01A2A

AC servo motor BSH - 0.9 N.m - 4000 rpm -
untapped shaft - without brake - IP50



Product availability: Stock - Normally stocked in distribution facility



Main

Commercial Status	Commercialised
Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	9000
Continuous stall torque	<p>7.08 lbf.in (0.8 N.m) for LXM32.U60N4 1.5 A at 480 V three phase</p> <p>7.08 lbf.in (0.8 N.m) for LXM32.U60N4 1.5 A at 400 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05CD14N4 at 380...480 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05BD14N4 at 380...480 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05AD14N4 at 380...480 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM15LU60N4 at 230 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM15LD13M3 at 230 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM15LD13M3 at 230 V single phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05CD10M3X at 200...240 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05BD10M3X at 200...240 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05AD10M3X at 200...240 V three phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05CD10M2 at 200...240 V single phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05BD10M2 at 200...240 V single phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05AD10M2 at 200...240 V single phase</p> <p>7.96 lbf.in (0.9 N.m) for LXM05CU70M2 at 200...240 V single phase</p>
Peak stall torque	<p>22.12 lbf.in (2.5 N.m) for LXM32.U60N4 1.5 A at 480 V three phase</p> <p>22.12 lbf.in (2.5 N.m) for LXM32.U60N4 1.5 A at 400 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD10M3X at 200...240 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD10M3X at 200...240 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD10M3X at 200...240 V three phase</p> <p>20 lbf.in (2.26 N.m) for LXM15LU60N4 at 230 V three phase</p> <p>22.12 lbf.in (2.5 N.m) for LXM15LD13M3 at 230 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD10M2 at 200...240 V single phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD10M2 at 200...240 V single phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD10M2 at 200...240 V single phase</p> <p>19.2 lbf.in (2.17 N.m) for LXM05CU70M2 at 200...240 V single phase</p> <p>22.12 lbf.in (2.5 N.m) for LXM15LD13M3 at 230 V single phase</p>

Nominal output power	<p>400 W for LXM32.U60N4 1.5 A at 480 V three phase</p> <p>400 W for LXM32.U60N4 1.5 A at 400 V three phase</p> <p>310 W for LXM15LU60N4 at 230 V three phase</p> <p>310 W for LXM15LD13M3 at 230 V three phase</p> <p>250 W for LXM05CD14N4 at 380...480 V three phase</p> <p>250 W for LXM05CD10M3X at 200...240 V three phase</p> <p>250 W for LXM05BD14N4 at 380...480 V three phase</p> <p>250 W for LXM05BD10M3X at 200...240 V three phase</p> <p>250 W for LXM05AD14N4 at 380...480 V three phase</p> <p>250 W for LXM05AD10M3X at 200...240 V three phase</p> <p>310 W for LXM15LD13M3 at 230 V single phase</p> <p>250 W for LXM05CU70M2 at 200...240 V single phase</p> <p>250 W for LXM05CD10M2 at 200...240 V single phase</p> <p>250 W for LXM05BD10M2 at 200...240 V single phase</p> <p>250 W for LXM05AD10M2 at 200...240 V single phase</p>
Nominal torque	<p>5.75 lbf.in (0.65 N.m) for LXM32.U60N4 1.5 A at 480 V three phase</p> <p>5.75 lbf.in (0.65 N.m) for LXM32.U60N4 1.5 A at 400 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD10M3X at 200...240 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD10M3X at 200...240 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD14N4 at 380...480 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD10M3X at 200...240 V three phase</p> <p>6.64 lbf.in (0.75 N.m) for LXM15LU60N4 at 230 V three phase</p> <p>6.64 lbf.in (0.75 N.m) for LXM15LD13M3 at 230 V three phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05CD10M2 at 200...240 V single phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05BD10M2 at 200...240 V single phase</p> <p>23.89 lbf.in (2.7 N.m) for LXM05AD10M2 at 200...240 V single phase</p> <p>19.2 lbf.in (2.17 N.m) for LXM05CU70M2 at 200...240 V single phase</p> <p>6.64 lbf.in (0.75 N.m) for LXM15LD13M3 at 230 V single phase</p>
Nominal speed	<p>4000 rpm for LXM15LD13M3 at 230 V three phase</p> <p>3000 rpm for LXM05CD14N4 at 380...480 V three phase</p> <p>3000 rpm for LXM05CD10M3X at 200...240 V three phase</p> <p>3000 rpm for LXM05BD14N4 at 380...480 V three phase</p> <p>3000 rpm for LXM05BD10M3X at 200...240 V three phase</p> <p>3000 rpm for LXM05AD14N4 at 380...480 V three phase</p> <p>3000 rpm for LXM05AD10M3X at 200...240 V three phase</p> <p>3000 rpm for LXM05CD10M2 at 200...240 V single phase</p> <p>3000 rpm for LXM05BD10M2 at 200...240 V single phase</p> <p>3000 rpm for LXM05AD10M2 at 200...240 V single phase</p> <p>3000 rpm for LXM05CU70M2 at 200...240 V single phase</p> <p>6000 rpm for LXM32.U60N4 1.5 A at 480 V three phase</p> <p>6000 rpm for LXM32.U60N4 1.5 A at 400 V three phase</p> <p>4000 rpm for LXM15LU60N4 at 230 V three phase</p> <p>4000 rpm for LXM15LD13M3 at 230 V single phase</p>

Product compatibility	LXM05CD14N4 at 380...480 V three phase LXM05BD14N4 at 380...480 V three phase LXM05AD14N4 at 380...480 V three phase LXM15LD13M3 at 230 V three phase LXM05CD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05AD10M3X at 200...240 V three phase LXM32.U60N4 at 480 V three phase LXM32.U60N4 at 400 V three phase LXM15LU60N4 at 230 V three phase LXM15LD13M3 at 230 V single phase LXM05CU70M2 at 200...240 V single phase LXM05CD10M2 at 200...240 V single phase LXM05BD10M2 at 200...240 V single phase LXM05AD10M2 at 200...240 V single phase
Shaft end	Untapped
IP degree of protection	IP50 (standard)
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 05 Lexium 15 Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	1.2 A
Continuous power	0.67 W
Maximum current Irms	4.8 A for LXM32.U60N4 4.8 A for LXM05CD14N4 4.8 A for LXM05CD10M3X 4.8 A for LXM05CD10M2 4.8 A for LXM05BD14N4 4.8 A for LXM05BD10M3X 4.8 A for LXM05BD10M2 4.8 A for LXM05AD14N4 4.8 A for LXM05AD10M3X 4.8 A for LXM05AD10M2 4.8 A for LXM05CU70M2 5.9 A for LXM15LU60N4 5.9 A for LXM15LD13M3
Maximum permanent current	4.8 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.35 in (9 mm)
Shaft length	0.79 in (20 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	2.17 in (55 mm)
Number of motor stacks	2
Torque constant	0.7 N.m/A at 248 °F (120 °C)
Back emf constant	40 V/krpm at 248 °F (120 °C)
Number of motor poles	6
Rotor inertia	0.096 kg.cm ²
Stator resistance	17.4 Ohm at 68 °F (20 °C)
Stator inductance	35.3 mH at 68 °F (20 °C)
Stator electrical time constant	2.03 ms at 68 °F (20 °C)

Maximum radial force Fr	370 N at 1000 rpm 290 N at 2000 rpm 260 N at 3000 rpm 230 N at 4000 rpm 220 N at 5000 rpm 200 N at 6000 rpm 190 N at 8000 rpm 190 N at 7000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.08 in (154.4 mm)
Centring collar diameter	1.57 in (40 mm)
Centring collar depth	0.08 in (2 mm)
Number of mounting holes	4
Mounting holes diameter	0.22 in (5.5 mm)
Circle diameter of the mounting holes	2.48 in (63 mm)
Product weight	3.31 lb(US) (1.5 kg)

Ordering and shipping details

Category	18310 - MOTION CONTROL MOTORS & ACCESS
Discount Schedule	PC53
GTIN	00785901856191
Nbr. of units in pkg.	1
Package weight(Lbs)	4.24
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	DE

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0850 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Period	18 months
--------	-----------