



Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	4800 rpm
Continuous stall torque	246.02 lbf.in (27.8 N.m) LXM32.D72N4 24 A at 400 V three phase 246.02 lbf.in (27.8 N.m) LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	798.23 lbf.in (90.2 N.m) LXM32.D72N4 24 A at 400 V three phase 798.23 lbf.in (90.2 N.m) LXM32.D72N4 24 A at 480 V three phase
Nominal output power	4100 W LXM32.D72N4 24 A at 400 V three phase 4100 W LXM32.D72N4 24 A at 480 V three phase
Nominal torque	114.16 lbf.in (12.9 N.m) LXM32.D72N4 24 A at 400 V three phase 114.16 lbf.in (12.9 N.m) LXM32.D72N4 24 A at 480 V three phase
Nominal speed	3000 rpm LXM32.D72N4 24 A at 400 V three phase 3000 rpm LXM32.D72N4 24 A at 480 V three phase
Product compatibility	LXM32.D72N4 at 400 V three phase LXM32.D72N4 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	With
Mounting support	International standard
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	22.3 A
Maximum continuous power	3.3 W

Maximum current Irms	72 A LXM32.D72N4
Maximum permanent current	81.3 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	318.58 lbf.in (36 N.m) (holding brake)
Motor flange size	5.51 in (140 mm)
Number of motor stacks	3
Torque constant	1.58 N.m/A at 248 °F (120 °C)
Back emf constant	105 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	14.48 kg.cm ²
Stator resistance	0.4 Ohm at 68 °F (20 °C)
Stator inductance	5.1 mH at 68 °F (20 °C)
Stator electrical time constant	12.75 ms at 68 °F (20 °C)
Maximum radial force Fr	1780 N at 3000 rpm 2030 N at 2000 rpm 2560 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	26 W
Type of cooling	Natural convection
Length	14.39 in (365.5 mm)
Centring collar diameter	5.12 in (130 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.43 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Product weight	50.71 lb(US) (23 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1018 - 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
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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