



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3800 rpm
Continuous stall torque	743.36 lbf.in (84 N.m) for LXM32.D72N4 24 A at 400 V three phase 743.36 lbf.in (84 N.m) for LXM32.D72N4 24 A at 480 V three phase
Peak stall torque	2053.1 lbf.in (232 N.m) for LXM32.D72N4 24 A at 400 V three phase 2053.1 lbf.in (232 N.m) for LXM32.D72N4 24 A at 480 V three phase
Nominal output power	6500 W for LXM32.D72N4 24 A at 400 V three phase 6500 W for LXM32.D72N4 24 A at 480 V three phase
Nominal torque	461.95 lbf.in (52.2 N.m) for LXM32.D72N4 24 A at 480 V three phase 461.95 lbf.in (52.2 N.m) for LXM32.D72N4 24 A at 400 V three phase
Nominal speed	1200 rpm for LXM32.D72N4 24 A at 400 V three phase 1200 rpm for LXM32.D72N4 24 A at 480 V three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP54 (standard)
Speed feedback resolution	32768 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	25.2 A
Continuous power	9.6 W
Maximum current I _{rms}	72 A LXM32.D72N4
Maximum permanent current	107.4 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.15 in (80 mm)
Key width	2.76 in (70 mm)
Feedback type	Single turn SinCos Hiperface
Motor flange size	8.07 in (205 mm)
Number of motor stacks	3
Torque constant	3.5 N.m/A at 248 °F (120 °C)
Back emf constant	218 V/krpm at 248 °F (120 °C)
Number of motor poles	10
Rotor inertia	190 kg.cm ²
Stator resistance	0.32 Ohm at 68 °F (20 °C)

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Stator inductance	6.9 mH at 68 °F (20 °C)
Stator electrical time constant	21.6 ms at 68 °F (20 °C)
Maximum radial force Fr	3120 N at 3000 rpm 3570 N at 2000 rpm 4500 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	19.25 in (489 mm)
Centring collar diameter	7.09 in (180 mm)
Centring collar depth	0.16 in (4 mm)
Number of mounting holes	4
Mounting holes diameter	0.55 in (14 mm)
Circle diameter of the mounting holes	8.46 in (215 mm)
Product weight	147.71 lb(US) (67 kg)

Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0936 - Schneider Electric declaration of conformity	Compliant - since 0936 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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