

BMH1901P27A2A

servo motor BMH - 30 Nm - 5000 rpm -
untapped shaft - without brake- IP65/IP67



Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	4000 rpm
Continuous stall torque	30 N.m for LXM32.D72N4 24 A at 400 V three phase 30 N.m for LXM32.D72N4 24 A at 480 V three phase 30 N.m for LXM32MD85N4 32 A at 400 V three phase 30 N.m for LXM32MD85N4 32 A at 480 V three phase 30 N.m for LXM32MC10N4 40 A at 400 V three phase 30 N.m for LXM32MC10N4 40 A at 480 V three phase
Peak stall torque	77.7 N.m for LXM32.D72N4 24 A at 400 V three phase 77.7 N.m for LXM32.D72N4 24 A at 480 V three phase 86.6 N.m for LXM32MD85N4 32 A at 400 V three phase 86.6 N.m for LXM32MD85N4 32 A at 480 V three phase 89.7 N.m for LXM32MC10N4 40 A at 400 V three phase 89.7 N.m for LXM32MC10N4 40 A at 480 V three phase
Nominal output power	4800 W for LXM32.D72N4 24 A at 400 V three phase 4800 W for LXM32.D72N4 24 A at 480 V three phase 5180 W for LXM32MD85N4 32 A at 400 V three phase 5180 W for LXM32MD85N4 32 A at 480 V three phase 5180 W for LXM32MC10N4 40 A at 400 V three phase 5180 W for LXM32MC10N4 40 A at 480 V three phase
Nominal torque	18.4 N.m for LXM32.D72N4 24 A at 400 V three phase 18.4 N.m for LXM32.D72N4 24 A at 480 V three phase 16.5 N.m for LXM32MD85N4 32 A at 400 V three phase 16.5 N.m for LXM32MD85N4 32 A at 480 V three phase 16.5 N.m for LXM32MC10N4 40 A at 400 V three phase 16.5 N.m for LXM32MC10N4 40 A at 480 V three phase
Nominal speed	2500 rpm for LXM32.D72N4 24 A at 400 V three phase 2500 rpm for LXM32.D72N4 24 A at 480 V three phase 3000 rpm for LXM32MD85N4 32 A at 400 V three phase 3000 rpm for LXM32MD85N4 32 A at 480 V three phase 3000 rpm for LXM32MC10N4 40 A at 400 V three phase 3000 rpm for LXM32MC10N4 40 A at 480 V three phase

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Untapped
IP degree of protection	IP65 (standard) IP67 (with IP67 kit)
Speed feedback resolution	32768 points/turn x 4096 turns
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
Network number of phases	Three phase
Continuous stall current	23.2 A
Continuous power	5.24 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	89.6 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	190 mm
Number of motor stacks	1
Torque constant	1.3 N.m/A at 120 °C
Back emf constant	87.6 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	67.7 kg.cm ²
Stator resistance	0.24 Ohm at 20 °C
Stator inductance	5.08 mH at 20 °C
Stator electrical time constant	21.2 ms at 20 °C
Maximum radial force Fr	3730 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	190 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Product weight	19 kg

[illegible]

- Dimensions in mm

c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
190	248	65	123

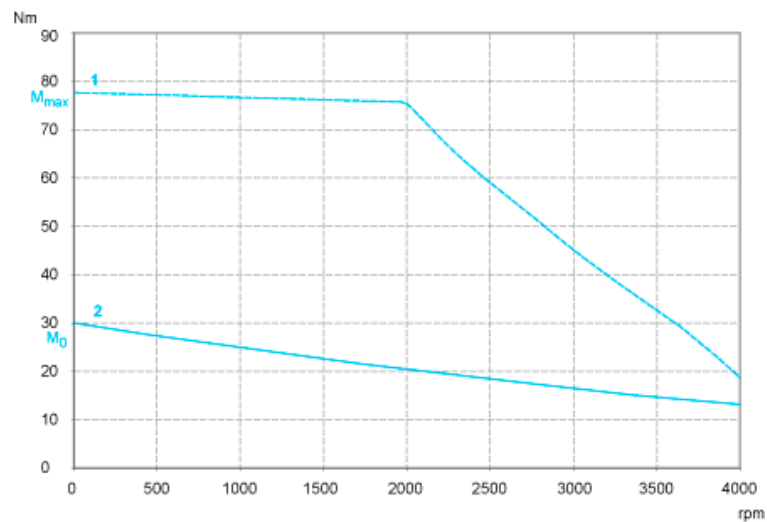
Dimensions in in.

c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
7.48	9.76	2.56	4.84

Torque/Speed Curves

400 V 3-Phase Supply Voltage

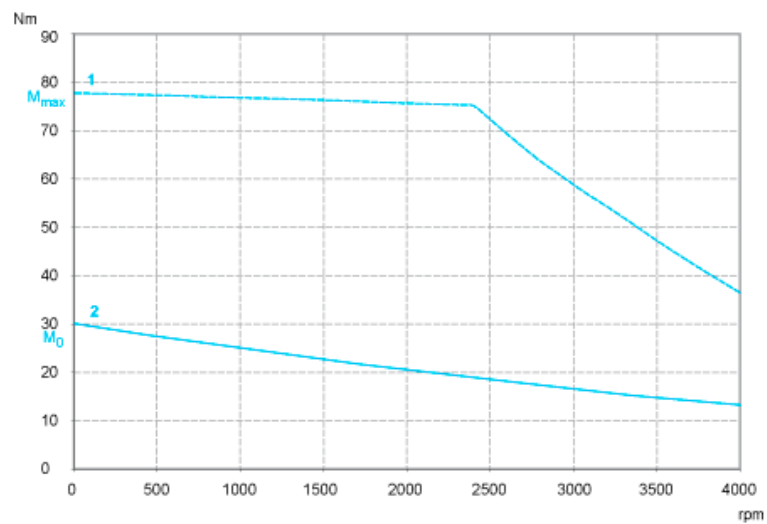
Servo motor with LXM32-D72N4 servo drive



- (1) Peak torque
- (2) Continuous torque

480 V 3-Phase Supply Voltage

Servo motor with LXM32-D72N4 servo drive



- (1) Peak torque
- (2) Continuous torque