

BMH1902P27A2A

servo motor BMH - 48 Nm - 4000 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	37.4 N.m for LXM32.D72N4 24 A at 400 V three phase 37.4 N.m for LXM32.D72N4 24 A at 480 V three phase 48 N.m for LXM32MD85N4 32 A at 400 V three phase 48 N.m for LXM32MD85N4 32 A at 480 V three phase 48 N.m for LXM32MC10N4 40 A at 400 V three phase 48 N.m for LXM32MC10N4 40 A at 480 V three phase
Peak stall torque	101 N.m for LXM32.D72N4 24 A at 400 V three phase 101 N.m for LXM32.D72N4 24 A at 480 V three phase 115.5 N.m for LXM32MD85N4 32 A at 400 V three phase 115.5 N.m for LXM32MD85N4 32 A at 480 V three phase 130.7 N.m for LXM32MC10N4 40 A at 400 V three phase 130.7 N.m for LXM32MC10N4 40 A at 480 V three phase
Nominal output power	5900 W for LXM32.D72N4 24 A at 400 V three phase 5900 W for LXM32.D72N4 24 A at 480 V three phase 6070 W for LXM32MD85N4 32 A at 400 V three phase 6070 W for LXM32MD85N4 32 A at 480 V three phase 6070 W for LXM32MC10N4 40 A at 400 V three phase 6070 W for LXM32MC10N4 40 A at 480 V three phase
Nominal torque	22.3 N.m for LXM32.D72N4 24 A at 400 V three phase 22.3 N.m for LXM32.D72N4 24 A at 480 V three phase 29 N.m for LXM32MD85N4 32 A at 400 V three phase 29 N.m for LXM32MD85N4 32 A at 480 V three phase 29 N.m for LXM32MC10N4 40 A at 400 V three phase 29 N.m for LXM32MC10N4 40 A at 480 V three phase
Nominal speed	2000 rpm for LXM32MC10N4 40 A at 400 V three phase 2000 rpm for LXM32MC10N4 40 A at 480 V three phase 2500 rpm for LXM32.D72N4 24 A at 400 V three phase 2500 rpm for LXM32.D72N4 24 A at 480 V three phase 2000 rpm for LXM32MD85N4 32 A at 400 V three phase 2000 rpm for LXM32MD85N4 32 A at 480 V three phase
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	30.8 A
Continuous power	6.1 W
Maximum current I _{rms}	72 A for LXM32.D72N4
Maximum permanent current	114 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	2
Torque constant	1.56 N.m/A at 120 °C
Back emf constant	108.3 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	130.1 kg.cm ²
Stator resistance	0.15 Ohm at 20 °C
Stator inductance	3.86 mH at 20 °C
Stator electrical time constant	25.7 ms at 20 °C
Maximum radial force Fr	4200 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	250 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	31 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1101 - 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

[illegible]

- Dimensions in mm

c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
250	308	65	123

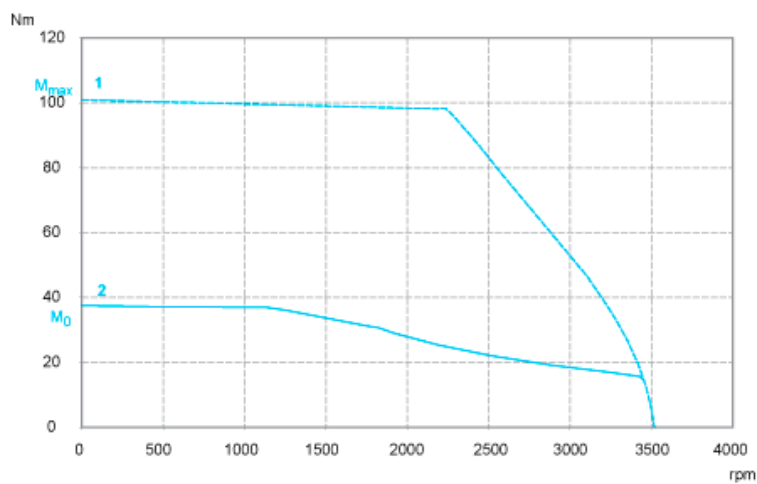
Dimensions in in.

c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
9.84	12.12	2.56	4.84

Torque/Speed Curves

400 V 3-Phase Supply Voltage

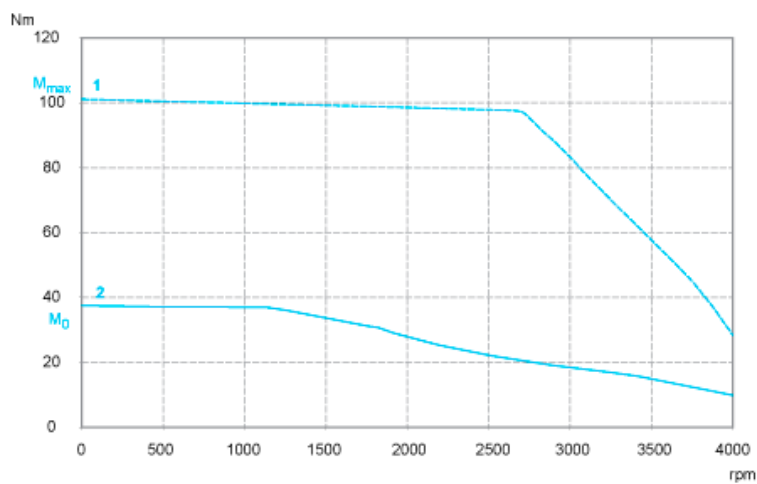
Servo motor with LXM32-D72N4 servo drive



- (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