

# servo motor BMH - 30 Nm - 5000 rpm - keyed shaft - with brake - IP65/IP67

BMH1901P31F2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485264059

## Main

Device short name	вмн	
Product or component type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	30 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 30 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 30 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 30 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 30 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 30 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 30 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Peak stall torque	77.7 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 77.7 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 86.6 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 86.6 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 89.7 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 89.7 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal output power	4800 W for LXM32.D72N4 at 24 A, 400 V, three phase 4800 W for LXM32.D72N4 at 24 A, 480 V, three phase 5180 W for LXM32MD85N4 at 32 A, 400 V, three phase 5180 W for LXM32MD85N4 at 32 A, 480 V, three phase 5180 W for LXM32MC10N4 at 40 A, 400 V, three phase 5180 W for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal torque	18.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 18.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 16.5 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 16.5 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 16.5 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 16.5 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal speed	2500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase 3000 rpm for LXM32MD85N4 at 32 A, 400 V, three phase 3000 rpm for LXM32MD85N4 at 32 A, 480 V, three phase 3000 rpm for LXM32MD85N4 at 32 A, 480 V, three phase 3000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase 3000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase	
Product compatibility	LXM32.D72N4 at 400480 V three phase	
Shaft end	Keyed	
IP degree of protection	IP65 standard IP67 with IP67 kit	
Speed feedback resolution	131072 points/turn	
Holding brake	With	
Mounting support	International standard flange	
Electrical connection	Rotatable right-angled connectors	

## Complementary

1 Jul 2025

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	89.61 A for LXM32.D72N4
Maximum permanent current	89.6 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
key width	70 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	80 N.m holding brake
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	5.0
Rotor inertia	71.7 kg.cm²
Stator resistance	0.24 Ohm at 20 °C
Stator inductance	2.54 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
Brake pull-in power	40 W
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
Net weight	20.5 kg
Sizing reference	BMH1901P
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	135 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	30.0 cm
Package 1 Width	40.0 cm
Package 1 Length	79.5 cm
Package 1 Weight	21.0 kg

## **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

∇ Environmental footprint		
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5672	
Environmental Disclosure	Product Environmental Profile	

#### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACh Regulation	REACh Declaration
PVC free	Yes

## Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins