

Product datasheet

Specifications



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

BMH1901P21F2A

Discontinued on: 9 Feb 2023

Discontinued

EAN Code: 3606485264042

Main

Device short name	BMH
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, 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 LXM32MC10N4 at 40 A, 400 V, three phase 3000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Smooth shaft
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

Disclaimer: 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

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	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	10
Rotor inertia	71.7 kg.cm²
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
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

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
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free	
 Rohs Exemption Information	Yes
 Pvc Free	

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations