Product datasheet

Specifications

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

BMH1901P21A2A

Discontinued on: 9 Feb 2023

Discontinued

EAN Code: 3606485264028

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	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	Single turn 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.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
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
Net weight	19 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	39.500 cm

Package 1 Width	79.000 cm
Package 1 Length	30.000 cm
Package 1 Weight	25.000 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	108.000 kg

Logistical informations

Country of origin	DE

Contractual warranty

Warranty	18 months

Environmental Data

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)	**5690**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

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**