Product datasheet

Specifications

Green Premium™

servo motor BMH - 65 Nm - 3500 rpm - keyed shaft - with brake - IP65/IP67

BMH1903P37F2A

⚠ **Discontinued on:** 01-Nov-2020

⚠ **Discontinued**

Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	3500 rpm
Continuous stall torque	43.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 43.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 57.6 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 57.6 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 65 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 65 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Peak stall torque	122.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 122.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 141.3 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 141.3 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 162.7 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 162.7 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal output power	5700 W for LXM32.D72N4 at 24 A, 400 V, three phase 5700 W for LXM32.D72N4 at 24 A, 480 V, three phase 7330 W for LXM32MD85N4 at 32 A, 400 V, three phase 7330 W for LXM32MD85N4 at 32 A, 480 V, three phase 7750 W for LXM32MC10N4 at 40 A, 400 V, three phase 7750 W for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal torque	36 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 36 N.m for LXM32.D72N4 at 24 A, 480 V, three phase 35 N.m for LXM32MD85N4 at 32 A, 400 V, three phase 35 N.m for LXM32MD85N4 at 32 A, 480 V, three phase 37 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 37 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal speed	1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase 2000 rpm for LXM32MD85N4 at 32 A, 400 V, three phase 2000 rpm for LXM32MD85N4 at 32 A, 480 V, three phase
Product compatibility	LXM32.D72N4 at 400...480 V three phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn x 4096 turns
Holding brake	With
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	36.1 A
Continuous power	7.95 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	124.5 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Key width	70 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	80 N.m holding brake
Motor flange size	190 mm
Number of motor stacks	3
Torque constant	1.8 N.m/A at 120 °C
Back emf constant	129.2 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	208.8 kg.cm²
Stator resistance	0.13 Ohm at 20 °C
Stator inductance	3.62 mH at 20 °C
Stator electrical time constant	27.8 ms at 20 °C
Maximum radial force Fr	4500 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
Type of cooling	Natural convection
Length	370 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	44.5 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	45.0 kg

Contractual warranty

Warranty   18 months

Sustainability

Green Premium^{TM} 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-CO_2 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

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