

Product datasheet

Specifications



servo motor BMH, Lexium 32,
10.3Nm, 4000rpm, untapped shaft,
with brake, IP65, IP67, 128bit
encoder

BMH1401P21F2A

Main

Device short name	BMH
Product or component type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	10.3 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 10.3 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 10.3 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Peak stall torque	30.8 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 30.8 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 30.8 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal output power	1450 W for LXM32.D30M2 at 10 A, 230 V, single phase 2400 W for LXM32.D30N4 at 10 A, 400 V, three phase 2400 W for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal torque	6.9 N.m for LXM32.D30M2 at 10 A, 230 V, single phase 7.7 N.m for LXM32.D30N4 at 10 A, 400 V, three phase 7.7 N.m for LXM32.D30N4 at 10 A, 480 V, three phase
Nominal speed	2000 rpm for LXM32.D30M2 at 10 A, 230 V, single phase 3000 rpm for LXM32.D30N4 at 10 A, 400 V, three phase 3000 rpm for LXM32.D30N4 at 10 A, 480 V, three phase
Product compatibility	LXM32.D30M2 at 230 V single phase LXM32.D30N4 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

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	8.58 A
Continuous power	2.85 W
Maximum current Irms	29.8 A for LXM32.D30M2 29.8 A for LXM32.D30N4
Maximum permanent current	29.8 A
Second shaft	Without second shaft end

Shaft diameter	24 mm
Shaft length	50 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	18 N.m holding brake
Motor flange size	140 mm
Number of motor stacks	1
Torque constant	1.2 N.m/A at 120 °C
Back emf constant	77.4 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	17.96 kg.cm ²
Stator resistance	0.69 Ohm at 20 °C
Stator inductance	6.7 mH at 20 °C
Stator electrical time constant	9.7 ms at 20 °C
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	187 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	10.3 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	10.6 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