Specifications



AC servo motor BSH, Lexium 05, 11.1N.m, 2500rpm, keyed shaft, with brake, IP65

BSH1401T31F1A

Main

Product Or Component Type	Servo motor
Device Short Name	BSH
Maximum Mechanical Speed	4000 rpm
Continuous Stall Torque	11.1 N.m for LXM15MD56N4, 230 V, three phase 11.4 N.m for LXM05AD42M3X, 200240 V, three phase 11.4 N.m for LXM05BD42M3X, 200240 V, three phase 11.4 N.m for LXM05CD42M3X, 200240 V, three phase
Peak Stall Torque	23.33 N.m for LXM15MD56N4, 230 V, three phase 23.33 N.m for LXM05AD42M3X, 200240 V, three phase 23.33 N.m for LXM05BD42M3X, 200240 V, three phase 23.33 N.m for LXM05CD42M3X, 200240 V, three phase
Nominal Output Power	2000 W for LXM15MD56N4, 230 V, three phase 2200 W for LXM05AD42M3X, 200240 V, three phase 2200 W for LXM05BD42M3X, 200240 V, three phase 2200 W for LXM05CD42M3X, 200240 V, three phase
Nominal Torque	6.9 N.m for LXM05AD42M3X, 200240 V, three phase 6.9 N.m for LXM05BD42M3X, 200240 V, three phase 6.9 N.m for LXM05CD42M3X, 200240 V, three phase 7.63 N.m for LXM15MD56N4, 230 V, three phase
Nominal Speed	3000 rpm for LXM05AD42M3X, 200240 V, three phase 3000 rpm for LXM05BD42M3X, 200240 V, three phase 3000 rpm for LXM05CD42M3X, 200240 V, three phase 2500 rpm for LXM15MD56N4, 230 V, three phase
Product Compatibility	LXM05AD42M3X at 200240 V three phase LXM05BD42M3X at 200240 V three phase LXM05CD42M3X at 200240 V three phase LXM15MD56N4 at 230 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	Straight connectors

Complementary

Range Compatibility	Lexium 05 Lexium 15
Supply Voltage Max	480 V
Network Number Of Phases	Three phase
Continuous Stall Current	13.9 A

Maximum Continuous Power	3.6 W
Maximum Current Irms	37.1 A for LXM15MD56N4
	37.1 A for LXM05AD42M3X
	37.1 A for LXM05BD42M3X
	37.1 A for LXM05CD42M3X
Maximum Permanent Current	37.1 A
Switching Frequency	4 kHz
Second Shaft	Without second shaft end
Shaft Diameter	24 mm
Shaft Length	50 mm
Key Width	40 mm
Feedback Type	Single turn SinCos Hiperface
Holding Torque	23 N.m holding brake
Motor Flange Size	140 mm
Number Of Motor Stacks	1
Torque Constant	0.83 N.m/A at 120 °C
Back Emf Constant	56 V/krpm at 120 °C
Number Of Motor Poles	10
Rotor Inertia	8.56 kg.cm ²
Stator Resistance	0.4 Ohm at 20 °C
	0.44 Ohm at 20 °C
Stator Inductance	4.9 mH at 20 °C
	5.15 mH at 20 °C
Stator Electrical Time Constant	11.14 ms at 20 °C
	12.88 ms at 20 °C
Maximum Radial Force Fr	1530 N at 3000 rpm
	1760 N at 2000 rpm
	2210 N at 1000 rpm
Maximum Axial Force Fa	0.2 x Fr
Brake Pull-In Power	24 W
Type Of Cooling	Natural convection
Length	255.5 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	13 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	27.0 cm
Package 1 Width	27.0 cm
Package 1 Length	48.2 cm

Package 1 Weight

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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



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Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
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
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov