



AC servo motor BSH - 11.1 N.m -2500 rpm - keyed shaft - with brake - IP50

BSH1401T12F1A

! Discontinued on: 9 Feb 2023

! Discontinued

EAN Code: 3389118141131

Main

BSH		
Servo motor		
4000 rpm		
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		
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		
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		
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		
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		
LXM05AD42M3X at 200240 V three phase		
LXM05BD42M3X at 200240 V three phase		
LXM05CD42M3X at 200240 V three phase		
LXM15MD56N4 at 230 V three phase		
Keyed		
IP50 standard		
131072 points/turn x 4096 turns		
With		
International standard flange		
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	Multiturn 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	9.79 ka	

Contractual warranty

Warranty 18 months

Sustainability Green Premium

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

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

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	

5 Sept 2024