

BSH1401T21F1A

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



Main

Device short name	BSH
Product or Component Type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	98.2 Lbf.In (11.1 N.m) LXM15MD56N4, 230 V, three phase 100.9 Lbf.In (11.4 N.m) LXM05AD42M3X, 200...240 V, three phase 100.9 Lbf.In (11.4 N.m) LXM05BD42M3X, 200...240 V, three phase 100.9 lbf.in (11.4 N.m) LXM05CD42M3X, 200...240 V, three phase
Peak stall torque	206.49 Lbf.In (23.33 N.m) LXM15MD56N4, 230 V, three phase 206.49 Lbf.In (23.33 N.m) LXM05AD42M3X, 200...240 V, three phase 206.49 Lbf.In (23.33 N.m) LXM05BD42M3X, 200...240 V, three phase 206.49 lbf.in (23.33 N.m) LXM05CD42M3X, 200...240 V, three phase
Nominal output power	2000 W LXM15MD56N4, 230 V, three phase 2200 W LXM05AD42M3X, 200...240 V, three phase 2200 W LXM05BD42M3X, 200...240 V, three phase 2200 W LXM05CD42M3X, 200...240 V, three phase
Nominal torque	61.07 Lbf.In (6.9 N.m) LXM05AD42M3X, 200...240 V, three phase 61.07 Lbf.In (6.9 N.m) LXM05BD42M3X, 200...240 V, three phase 61.07 Lbf.In (6.9 N.m) LXM05CD42M3X, 200...240 V, three phase 67.53 lbf.in (7.63 N.m) LXM15MD56N4, 230 V, three phase
Nominal speed	3000 rpm LXM05AD42M3X, 200...240 V, three phase 3000 rpm LXM05BD42M3X, 200...240 V, three phase 3000 rpm LXM05CD42M3X, 200...240 V, three phase 2500 rpm LXM15MD56N4, 230 V, three phase
Product compatibility	LXM05AD42M3X 200...240 V three phase LXM05BD42M3X 200...240 V three phase LXM05CD42M3X 200...240 V three phase LXM15MD56N4 230 V three phase
Shaft end	Untapped
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

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Complementary

Range Compatibility	Lexium 05 Lexium 15
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	13.9 A
Maximum continuous power	3.6 W
Maximum current Irms	37.1 A LXM15MD56N4 37.1 A LXM05AD42M3X 37.1 A LXM05BD42M3X 37.1 A LXM05CD42M3X
Maximum permanent current	37.1 A
Switching frequency	4 kHz
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	203.6 lbf.in (23 N.m) holding brake
Motor flange size	5.5 in (140 mm)
Number of motor stacks	1
Torque constant	0.83 N.m/A 248.0000000000 °F (20 °C)
Back emf constant	56 V/krpm 248.0000000000 °F (20 °C)
Number of motor poles	10
Rotor inertia	8.56 kg.cm ²
Stator resistance	0.4 Ohm 68.0000000000 °F (20 °C) 0.44 Ohm 68.0000000000 °F (20 °C)
Stator inductance	4.9 MH 68.0000000000 °F (20 °C) 5.15 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	11.14 Ms 68.0000000000 °F (20 °C) 12.88 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	1530 N 3000 rpm 1760 N 2000 rpm 2210 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	24 W
Type of cooling	Natural convection
Length	10.06 in (255.5 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	28.7 lb(US) (13 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3389118141247
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.6 in (27.0 cm)
Package 1 Width	10.6 in (27.0 cm)
Package 1 Length	19.0 in (48.2 cm)
Package 1 Weight	21.58 lb(US) (9.79 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
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
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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