Product datasheet





AC servo motor BSH, Lexium 05, 14.9N.m, 1500rpm, untapped shaft, without brake, IP50

BSH1402P11A2A

Main

Device short name	BSH	
Product or component type	Servo motor 4000 rpm	
Maximum mechanical speed		
Continuous stall torque	19.5 N.m for LXM15MD40N4, 400 V, three phase	
	19.5 N.m for LXM15MD40N4, 480 V, three phase	
	14.9 N.m for LXM15LD28M3, 230 V, three phase	
	14.9 N.m for LXM15MD28N4, 230 V, three phase	
	14.9 N.m for LXM15MD28N4, 400 V, three phase	
	14.9 N.m for LXM15MD28N4, 480 V, three phase	
	19.5 N.m for LXM15MD40N4, 230 V, three phase	
	19.5 N.m for LXM15MD56N4, 230 V, three phase	
	19.5 N.m for LXM15MD56N4, 400 V, three phase	
	19.5 N.m for LXM15MD56N4, 480 V, three phase	
	19.2 N.m for LXM05AD42M3X, 200240 V, three phase	
	19.2 N.m for LXM05AD57N4, 380480 V, three phase	
	19.2 N.m for LXM05BD42M3X, 200240 V, three phase	
	19.2 N.m for LXM05BD57N4, 380480 V, three phase	
	19.2 N.m for LXM05CD42M3X, 200240 V, three phase 19.2 N.m for LXM05CD57N4, 380480 V, three phase	
	15.2 N.III IOI EAMOSCOSTINA, SOU400 V, tillee pilase	
Peak stall torque	28.71 N.m for LXM15LD28M3, 230 V, three phase	
	28.71 N.m for LXM15MD28N4, 230 V, three phase	
	28.71 N.m for LXM15MD28N4, 400 V, three phase	
	28.71 N.m for LXM15MD28N4, 480 V, three phase	
	39.3 N.m for LXM15MD40N4, 230 V, three phase	
	39.3 N.m for LXM15MD40N4, 400 V, three phase	
	39.3 N.m for LXM15MD40N4, 480 V, three phase	
	47.5 N.m for LXM15MD56N4, 230 V, three phase	
	47.5 N.m for LXM15MD56N4, 400 V, three phase	
	47.5 N.m for LXM15MD56N4, 480 V, three phase	
	41.94 N.m for LXM05AD42M3X, 200240 V, three phase	
	47.5 N.m for LXM05AD57N4, 380480 V, three phase	
	41.94 N.m for LXM05BD42M3X, 200240 V, three phase 47.5 N.m for LXM05BD57N4, 380480 V, three phase	
	41.94 N.m for LXM05CD42M3X, 200240 V, three phase	
	47.5 N.m for LXM05CD57N4, 380480 V, three phase	
Nominal output power	2250 W for I VM05AD42M2V 200 240 V three share	
Nominal output power	2350 W for LXM05AD42M3X, 200240 V, three phase 2350 W for LXM05BD42M3X, 200240 V, three phase	
	2350 W for LXM05CD42M3X, 200240 V, three phase	
	2350 W for LXM15LD28M3, 230 V, three phase	
	2350 W for LXM15MD28N4, 230 V, three phase	
	2350 W for LXM15MD40N4, 230 V, three phase	
	2350 W for LXM15MD56N4, 230 V, three phase	
	3350 W for LXM15MD28N4, 480 V, three phase	
	3350 W for LXM15MD40N4, 480 V, three phase	
	3400 W for LXM05AD57N4, 380480 V, three phase	
	3400 W for LXM05BD57N4, 380480 V, three phase	
	3400 W for LXM05CD57N4, 380480 V, three phase	
	3400 W for LXM15MD28N4, 400 V, three phase	
	3400 W for LXM15MD40N4, 400 V, three phase	
	3400 W for LXM15MD56N4, 400 V, three phase	

Nominal torque	8 N.m for LXM15MD40N4, 480 V, three phase
	10.8 N.m for LXM05AD57N4, 380480 V, three phase
	10.8 N.m for LXM05BD57N4, 380480 V, three phase
	10.8 N.m for LXM05CD57N4, 380480 V, three phase 10.8 N.m for LXM15MD28N4, 400 V, three phase
	10.8 N.m for LXM15MD40N4, 400 V, three phase
	10.8 N.m for LXM15MD56N4, 400 V, three phase
	10.8 N.m for LXM15MD56N4, 480 V, three phase
	15 N.m for LXM05AD42M3X, 200240 V, three phase
	15 N.m for LXM05BD42M3X, 200240 V, three phase
	15 N.m for LXM05CD42M3X, 200240 V, three phase
	15 N.m for LXM15LD28M3, 230 V, three phase 15 N.m for LXM15MD28N4, 230 V, three phase
	15 N.m for LXM15MD40N4, 230 V, three phase
	15 N.m for LXM15MD56N4, 230 V, three phase
	8 N.m for LXM15MD28N4, 480 V, three phase
Nominal speed	4500 rpm for LVM05AD42M2V 200 240 V throughout
Nominal speed	1500 rpm for LXM05AD42M3X, 200240 V, three phase 1500 rpm for LXM05BD42M3X, 200240 V, three phase
	1500 rpm for LXM05CD42M3X, 200240 V, three phase
	1500 rpm for LXM15MD28N4, 230 V, three phase
	1500 rpm for LXM15MD40N4, 230 V, three phase
	3000 rpm for LXM05AD57N4, 380480 V, three phase
	3000 rpm for LXM05BD57N4, 380480 V, three phase
	3000 rpm for LXM05CD57N4, 380480 V, three phase
	3000 rpm for LXM15MD28N4, 400 V, three phase
	3000 rpm for LXM15MD40N4, 400 V, three phase
	4000 rpm for LXM15MD28N4, 480 V, three phase
	1500 rpm for LXM15LD28M3, 230 V, three phase 1500 rpm for LXM15MD56N4, 230 V, three phase
	3000 rpm for LXM15MD56N4, 400 V, three phase
	3000 rpm for LXM15MD56N4, 480 V, three phase
	4000 rpm for LXM15MD40N4, 480 V, three phase
Product compatibility	LYM05AD42M2V at 200 240 V/three phase
1 Todact compatibility	LXM05AD42M3X at 200240 V three phase LXM05BD42M3X at 200240 V three phase
	LXM05CD42M3X at 200240 V three phase
	LXM15LD28M3 at 230 V three phase
	LXM15MD28N4 at 400 V three phase
	LXM15MD28N4 at 480 V three phase
	LXM15MD40N4 at 400 V three phase
	LXM15MD40N4 at 480 V three phase
	LXM05AD57N4 at 380480 V three phase LXM05BD57N4 at 380480 V three phase
	LXM05CD57N4 at 380480 V three phase
	LXM15MD28N4 at 230 V three phase
	LXM15MD40N4 at 230 V three phase
	LXM15MD56N4 at 230 V three phase
	LXM15MD56N4 at 400 V three phase
	LXM15MD56N4 at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn
Holding brake	Without
mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Complementary	
Range compatibility	Lexium 05 Lexium 15
supply voltage max	480 V
supply voltage max Network number of phases	480 V Three phase

Maximum current Irms	44.1 A for LXM15LD28M3 44.1 A for LXM15MD28N4 44.1 A for LXM15MD40N4 44.1 A for LXM05AD42M3X 44.1 A for LXM05AD57N4 44.1 A for LXM05BD57N4 44.1 A for LXM05BD57N4 44.1 A for LXM05CD42M3X 44.1 A for LXM05CD57N4 44.1 A for LXM05CD42M3X 44.1 A for LXM05CD42M3X 44.1 A for LXM05CD57N4 72 A for LXM05CD57N4	
Maximum permanent current	44.1 A	
Switching frequency	4 kHz	
Second shaft	Without second shaft end	
Shaft diameter	24 mm	
Shaft length	50 mm	
Feedback type	Single turn SinCos Hiperface	
Motor flange size	140 mm	
Number of motor stacks	2	
Torque constant	1.47 N.m/A at 120 °C	
Back emf constant	101 V/krpm at 120 °C	
Number of motor poles	10	
Rotor inertia	12.68 kg.cm ²	
Stator resistance	0.6 Ohm at 20 °C	
Stator inductance	7.4 mH at 20 °C	
Stator electrical time constant	12.33 ms at 20 °C	
Maximum radial force Fr	1680 N at 3000 rpm 1930 N at 2000 rpm 2430 N at 1000 rpm	
Maximum axial force Fa	0.2 x Fr	
Type of cooling	Natural convection	
Length	272.5 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	16.6 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	

48.2 cm 11.5 kg

Package 1 Length

Package 1 Weight

Contractual warranty

Warranty

18 months



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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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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