Product datasheet

Specifications





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

BSH1402P12A2A

Main

<u> </u>	
Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	4000 rpm
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
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	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
	3400 W for LXM15MD56N4, 480 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	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	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
01	
Complementary	
Range compatibility	Lexium 15 Lexium 05
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	13.2 A

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 LXM05CD42M3X
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	Multiturn 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

11-Sept-2024



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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

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	Pvc Free	

Certifications & Standards

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
Environmental Disclosure	Product Environmental Profile
China Rohs Regulation	China RoHS declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Reach Regulation	REACh Declaration