Product data sheet Characteristics

BSH1002T02F1A

AC servo motor BSH - 5.5 Nm - 6000 rpm - untapped shaft - with brake - IP50

es 5.5 N.m for LXM05BD42M3X at 200240 V 3 ph es 5.5 N.m for LXM05CD42M3X at 200240 V 3 ph es Peak stall torque 11.59 N.m for LXM15LD28M3 at 230 V 3 phases 16 N.m for LXM05AD42M3X at 200240 V 3 ph es 16 N.m for LXM05BD42M3X at 200240 V 3 ph es 16 N.m for LXM05CD42M3X at 200240 V 3 ph es 16 N.m for LXM05AD42M3X at 200240 V 3 ph es 1400 W for LXM05AD42M3X at 200240 V 3 ph es 1400 W for LXM05BD42M3X at 200240 V 3 ph es 1400 W for LXM05CD42M3X at 200240 V 3 ph es 1400 W for LXM05CD42M3X at 200240 V 3 ph es 1700 W for LXM05CD42M3X at 200240 V 3 ph es	Product or component type	AC servo motors
5.5 N.m for LXM05AD42M3X at 200240 V 3 phes 5.5 N.m for LXM05BD42M3X at 200240 V 3 phes 5.5 N.m for LXM05CD42M3X at 200240 V 3 phes 11.59 N.m for LXM05CD42M3X at 230 V 3 phases 16 N.m for LXM05AD42M3X at 200240 V 3 phes 16 N.m for LXM05AD42M3X at 200240 V 3 phese 16 N.m for LXM05AD42M3X at 200240 V 3 phese 16 N.m for LXM05CD42M3X at 200240 V 3 phese 1400 W for LXM05AD42M3X at 200240 V 3 phese 1400 W for LXM05AD42M3X at 200240 V 3 phese 1400 W for LXM05AD42M3X at 200240 V 3 phese 1400 W for LXM05AD42M3X at 200240 V 3 phese 1700 W for LXM05AD42M3X at 200240 V 3 phese 3000 rpm for LXM05AD42M3X at 200240 V 3 phases 3000 rpm for LXM05AD42M3X at 200240 V 3 phases 3000 rpm for LXM05AD42M3X at 200240 V 3 phases 4000 rpm for LXM05CD42M3X at 200240 V 3 phases 4000 rpm for LXM05CD42M3X at 200240 V 3 phases 4000 rpm for LXM05CD42M3X at 200240 V 3 phases LXM05AD42M3X at 200240 V 3 phases LXM05AD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases	Component name	BSH
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phases 3000 rpm for LXM05BD42M3X at 200240 V 3 phases 3000 rpm for LXM05CD42M3X at 200240 V 3 phases 4000 rpm for LXM15LD28M3 at 230 V 3 phases Maximum mechanical speed Product compatibility LXM05AD42M3X at 200240 V 3 phases LXM05BD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases LXM15LD28M3 at 230 V 3 phases Shaft end Untapped IP degree of protection IP50 Encoder type Absolute multiturn SinCos Hiperface Encoder feedback resolution Holding brake With Mounting support International standard flange	Nominal output power	1400 W for LXM05AD42M3X at 200240 V 3 phases 1400 W for LXM05BD42M3X at 200240 V 3 phases 1400 W for LXM05CD42M3X at 200240 V 3 phases
speed Product compatibility LXM05AD42M3X at 200240 V 3 phases LXM05BD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases LXM15LD28M3 at 230 V 3 phases Shaft end Untapped IP degree of protection IP50 Encoder type Absolute multiturn SinCos Hiperface Encoder feedback resolution Holding brake With Mounting support International standard flange	Nominal speed	phases 3000 rpm for LXM05BD42M3X at 200240 V 3 phases 3000 rpm for LXM05CD42M3X at 200240 V 3 phases
LXM05BD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases LXM15LD28M3 at 230 V 3 phases Shaft end Untapped IP degree of protection IP50 Encoder type Absolute multiturn SinCos Hiperface Encoder feedback resolution Holding brake With Mounting support International standard flange		6000 rpm
IP degree of protection IP50 Encoder type Absolute multiturn SinCos Hiperface Encoder feedback resolution Holding brake With Mounting support International standard flange	Product compatibility	LXM05BD42M3X at 200240 V 3 phases LXM05CD42M3X at 200240 V 3 phases
Encoder type Absolute multiturn SinCos Hiperface Encoder feedback resolution Holding brake With Mounting support International standard flange	Shaft end	Untapped
Encoder feedback resolution Holding brake Mounting support Moun	IP degree of protection	IP50
olution Holding brake With Mounting support International standard flange	Encoder type	Absolute multiturn SinCos Hiperface
Mounting support International standard flange		131072 points/turn x 4096 turns
	Holding brake	With
Electrical connection Straight connectors	Mounting support	International standard flange
	Electrical connection	Straight connectors
Number of poles 8	Number of poles	8

Complementary

Range compatibility	Lexium 05
	Lexium 15
Nominal torque	4 N.m for LXM15LD28M3 at 230 V 3 phases
	4.4 N.m for LXM05AD42M3X at 200240 V 3 phases
	4.4 N.m for LXM05BD42M3X at 200240 V 3 phases
	4.4 N.m for LXM05CD42M3X at 200240 V 3 phases
Maximum current Irms	31.2 A for LXM15LD28M3
	35.4 A for LXM05AD42M3X
	35.4 A for LXM05BD42M3X
	35.4 A for LXM05CD42M3X
Switching frequency	8 kHz for LEX05
Torque constant	0.59 N.m/A rms at 120 °C
·	0.64 N.m/A rms at 120 °C
Back electromagnetical force (emf) constant	33 V rms/krpm at 120 °C
	37 V rms/krpm at 120 °C
Rotor inertia	2.928 kg.cm² with brake
Stator resistance	0.56 Ohm at 20 °C
	0.6 Ohm at 20 °C
Stator inductance	2.9 mH at 20 °C
	3 mH at 20 °C
Stator electrical time constant	4.83 ms at 20 °C
	5.26 ms at 20 °C
Maximum radial force Fr	620 N at 4000 rpm
	690 N at 3000 rpm
	790 N at 2000 rpm
	990 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	5.9 kg

Environment

RoHS EUR conformity date	0850
RoHS EUR status	Compliant

