





Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	39.83 Lbf.In (4.5 N.m) LXM15LD21M3, 230 V, single phase 30.09 Lbf.In (3.4 N.m) LXM15LD13M3, 230 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 230 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 400 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 480 V, three phase 51.33 Lbf.In (5.8 N.m) LXM15LD17N4, 400 V, three phase 51.33 Lbf.In (5.8 N.m) LXM15LD17N4, 480 V, three phase 51.33 Lbf.In (5.8 N.m) LXM15LD21M3, 230 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05AD17M3X, 200...240 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05AD22N4, 380...480 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05AD28M2, 200...240 V, single phase 48.68 Lbf.In (5.5 N.m) LXM05BD17M3X, 200...240 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05BD22N4, 380...480 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05BD28M2, 200...240 V, single phase 48.68 Lbf.In (5.5 N.m) LXM05CD17M3X, 200...240 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05CD22N4, 380...480 V, three phase 48.68 Lbf.In (5.5 N.m) LXM05CD28M2, 200...240 V, single phase 51.33 Lbf.In (5.8 N.m) LXM32.D18N4 6 A, 400 V, three phase 51.33 lbf.in (5.8 N.m) LXM32.D18N4 6 A, 480 V, three phase

Peak stall torque	83.11 Lbf.In (9.39 N.m) LXM15LD21M3, 230 V, single phase 49.56 Lbf.In (5.6 N.m) LXM15LD13M3, 230 V, three phase 70.81 Lbf.In (8 N.m) LXM15LD10N4, 230 V, three phase 70.81 Lbf.In (8 N.m) LXM15LD10N4, 400 V, three phase 70.81 Lbf.In (8 N.m) LXM15LD10N4, 480 V, three phase 107.36 Lbf.In (12.13 N.m) LXM15LD17N4, 400 V, three phase 107.36 Lbf.In (12.13 N.m) LXM15LD17N4, 480 V, three phase 130.90 Lbf.In (14.79 N.m) LXM15LD21M3, 230 V, three phase 99.39 Lbf.In (11.23 N.m) LXM05AD17M3X, 200...240 V, three phase 123.20 Lbf.In (13.92 N.m) LXM05AD22N4, 380...480 V, three phase 141.61 Lbf.In (16 N.m) LXM05AD28M2, 200...240 V, single phase 99.39 Lbf.In (11.23 N.m) LXM05BD17M3X, 200...240 V, three phase 123.20 Lbf.In (13.92 N.m) LXM05BD22N4, 380...480 V, three phase 141.61 Lbf.In (16 N.m) LXM05BD28M2, 200...240 V, single phase 99.39 Lbf.In (11.23 N.m) LXM05CD17M3X, 200...240 V, three phase 123.20 Lbf.In (13.92 N.m) LXM05CD22N4, 380...480 V, three phase 141.61 Lbf.In (16 N.m) LXM05CD28M2, 200...240 V, single phase 161.97 Lbf.In (18.3 N.m) LXM32.D18N4 6 A, 400 V, three phase 161.97 Lbf.in (18.3 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal output power	950 W LXM15LD21M3, 230 V, single phase 950 W LXM15LD21M3, 230 V, three phase 780 W LXM05AD28M2, 200...240 V, single phase 780 W LXM05BD28M2, 200...240 V, single phase 780 W LXM05CD28M2, 200...240 V, single phase 1400 W LXM05AD22N4, 380...480 V, three phase 1400 W LXM05BD22N4, 380...480 V, three phase 1400 W LXM05CD22N4, 380...480 V, three phase 1600 W LXM15LD10N4, 400 V, three phase 1700 W LXM15LD17N4, 400 V, three phase 1950 W LXM15LD17N4, 480 V, three phase 2150 W LXM15LD10N4, 480 V, three phase 780 W LXM05AD17M3X, 200...240 V, three phase 780 W LXM05BD17M3X, 200...240 V, three phase 780 W LXM05CD17M3X, 200...240 V, three phase 840 W LXM15LD13M3, 230 V, three phase 890 W LXM15LD10N4, 230 V, three phase 1700 W LXM32.D18N4 6 A, 400 V, three phase 1700 W LXM32.D18N4 6 A, 480 V, three phase

Nominal torque	39.83 Lbf.In (4.5 N.m) LXM15LD21M3, 230 V, single phase 43.90 Lbf.In (4.96 N.m) LXM05AD28M2, 200...240 V, single phase 43.90 Lbf.In (4.96 N.m) LXM05BD28M2, 200...240 V, single phase 43.90 Lbf.In (4.96 N.m) LXM05CD28M2, 200...240 V, single phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 230 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 400 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD10N4, 480 V, three phase 30.09 Lbf.In (3.4 N.m) LXM15LD13M3, 230 V, three phase 32.75 Lbf.In (3.7 N.m) LXM15LD17N4, 480 V, three phase 35.40 Lbf.In (4 N.m) LXM15LD17N4, 400 V, three phase 38.94 Lbf.In (4.4 N.m) LXM05AD22N4, 380...480 V, three phase 38.94 Lbf.In (4.4 N.m) LXM05BD22N4, 380...480 V, three phase 38.94 Lbf.In (4.4 N.m) LXM05CD22N4, 380...480 V, three phase 43.90 Lbf.In (4.96 N.m) LXM05AD17M3X, 200...240 V, three phase 43.90 Lbf.In (4.96 N.m) LXM05BD17M3X, 200...240 V, three phase 43.90 Lbf.In (4.96 N.m) LXM05CD17M3X, 200...240 V, three phase 51.33 Lbf.In (5.8 N.m) LXM15LD21M3, 230 V, three phase 35.40 Lbf.In (4 N.m) LXM32.D18N4 6 A, 400 V, three phase 35.40 lbf.in (4 N.m) LXM32.D18N4 6 A, 480 V, three phase
Nominal speed	3000 rpm LXM05AD22N4, 380...480 V, three phase 3000 rpm LXM05BD22N4, 380...480 V, three phase 3000 rpm LXM05CD22N4, 380...480 V, three phase 1500 rpm LXM05AD17M3X, 200...240 V, three phase 1500 rpm LXM05BD17M3X, 200...240 V, three phase 1500 rpm LXM05CD17M3X, 200...240 V, three phase 4500 rpm LXM15LD10N4, 400 V, three phase 6000 rpm LXM15LD10N4, 480 V, three phase 4000 rpm LXM32.D18N4 6 A, 400 V, three phase 4000 rpm LXM32.D18N4 6 A, 480 V, three phase 1500 rpm LXM05AD28M2, 200...240 V, single phase 1500 rpm LXM05BD28M2, 200...240 V, single phase 1500 rpm LXM05CD28M2, 200...240 V, single phase 2000 rpm LXM15LD21M3, 230 V, single phase 2000 rpm LXM15LD21M3, 230 V, three phase 2500 rpm LXM15LD10N4, 230 V, three phase 2500 rpm LXM15LD13M3, 230 V, three phase 4000 rpm LXM15LD17N4, 400 V, three phase 5000 rpm LXM15LD17N4, 480 V, three phase

Product compatibility	LXM05AD28M2 200...240 V single phase LXM05BD28M2 200...240 V single phase LXM05CD28M2 200...240 V single phase LXM15LD21M3 230 V single phase LXM15LD13M3 230 V three phase LXM15LD10N4 400 V three phase LXM05AD17M3X 200...240 V three phase LXM05BD17M3X 200...240 V three phase LXM05CD17M3X 200...240 V three phase LXM15LD10N4 230 V three phase LXM15LD10N4 480 V three phase LXM15LD21M3 230 V three phase LXM05AD22N4 380...480 V three phase LXM05BD22N4 380...480 V three phase LXM05CD22N4 380...480 V three phase LXM15LD17N4 400 V three phase LXM15LD17N4 480 V three phase LXM32.D18N4 400 V three phase LXM32.D18N4 480 V three phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32 Lexium 05 Lexium 15
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	4.8 A
Maximum continuous power	2.51 W
Maximum current Irms	17.1 A LXM15LD13M3 17.1 A LXM15LD21M3 17.1 A LXM15LD10N4 17.1 A LXM15LD17N4 17.1 A LXM05AD28M2 17.1 A LXM05AD17M3X 17.1 A LXM05AD22N4 17.1 A LXM05BD28M2 17.1 A LXM05BD17M3X 17.1 A LXM05BD22N4 17.1 A LXM05CD28M2 17.1 A LXM05CD17M3X 17.1 A LXM05CD22N4 17.1 A LXM32.D18N4
Maximum permanent current	17.1 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	1.18 in (30 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	79.66 lbf.in (9 N.m) holding brake
Motor flange size	3.94 in (100 mm)
Number of motor stacks	2
Torque constant	1.21 N.m/A 248 °F (120 °C)
Back emf constant	77 V/krpm 248 °F (120 °C)
Number of motor poles	8
Rotor inertia	2.928 kg.cm ²
Stator resistance	2.4 Ohm 68 °F (20 °C)
Stator inductance	12.7 mH 68 °F (20 °C)

Stator electrical time constant	5.29 ms 68 °F (20 °C)
Maximum radial force Fr	620 N 4000 rpm 690 N 3000 rpm 790 N 2000 rpm 990 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	18 W
Type of cooling	Natural convection
Length	9.27 in (235.5 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Net Weight	13.89 lb(US) (6.3 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03389118139411
Nbr. of units in pkg.	1
Package weight(Lbs)	14.2 lb(US) (6.44 kg)
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	6.06 in (15.4 cm)
Package 1 width	6.42 in (16.3 cm)
Package 1 Length	16.02 in (40.7 cm)

Offer Sustainability

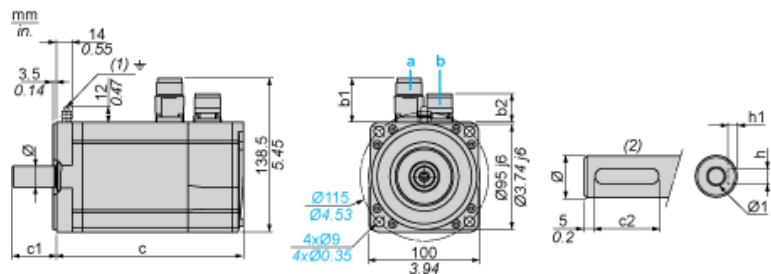
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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.

Contractual warranty

Warranty	18 months
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Servo Motors Dimensions

Example with Straight Connectors



- a: Power supply for servo motor brake
b: Power supply for servo motor encoder
(1) M4 screw
(2) Shaft end, keyed slot (optional)

Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
39.5	25.5	39.5	39.5	205	236	40	30	6 N9	$3.5^{+0.1}_0$	19 k6	M6 x 16

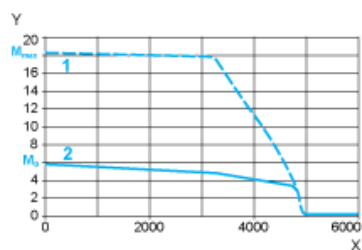
Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	c1	c2	h	h1	Ø	Ø1 for screws
b1	b2	b1	b2								
1.55	1.00	1.55	1.55	8.07	9.29	1.57	1.18	0.24 N9	$0.14^{+0.1}_0$	0.75 k6	M6 x 0.63

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive

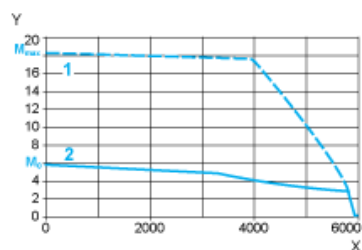


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D18N4 servo drive



- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque