

Main

Product or Component Type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	<p>70.81 Lbf.In (8 N.m) LXM32.D30N4 10 A, 400 V, three phase</p> <p>70.81 Lbf.In (8 N.m) LXM32.D30N4 10 A, 480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05BD34N4, 380...480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05BD42M3X, 200...240 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05CD34N4, 380...480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05CD42M3X, 200...240 V, three phase</p> <p>59.30 Lbf.In (6.7 N.m) LXM15LD21M3, 230 V, three phase</p> <p>59.30 Lbf.In (6.7 N.m) LXM15LD17N4, 230 V, three phase</p> <p>59.30 Lbf.In (6.7 N.m) LXM15LD17N4, 400 V, three phase</p> <p>59.30 Lbf.In (6.7 N.m) LXM15LD17N4, 480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM15LD28M3, 230 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM15MD28N4, 400 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM15MD28N4, 480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM15MD40N4, 400 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM15MD40N4, 480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05AD34N4, 380...480 V, three phase</p> <p>69.04 Lbf.In (7.8 N.m) LXM05AD42M3X, 200...240 V, three phase</p>

Peak stall torque	<p>250.48 Lbf.In (28.3 N.m) LXM32.D30N4 10 A, 400 V, three phase</p> <p>250.48 Lbf.In (28.3 N.m) LXM32.D30N4 10 A, 480 V, three phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>137.19 Lbf.In (15.5 N.m) LXM15LD21M3, 230 V, three phase</p> <p>110.63 Lbf.In (12.5 N.m) LXM15LD17N4, 230 V, three phase</p> <p>110.63 Lbf.In (12.5 N.m) LXM15LD17N4, 400 V, three phase</p> <p>110.63 Lbf.In (12.5 N.m) LXM15LD17N4, 480 V, three phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM15LD28M3, 230 V, three phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM15MD28N4, 400 V, three phase</p> <p>174.27 Lbf.In (19.69 N.m) LXM15MD28N4, 480 V, three phase</p> <p>205.07 Lbf.In (23.17 N.m) LXM15MD40N4, 400 V, three phase</p> <p>205.07 Lbf.In (23.17 N.m) LXM15MD40N4, 480 V, three phase</p> <p>203.66 Lbf.In (23.01 N.m) LXM05AD34N4, 380...480 V, three phase</p> <p>205.07 Lbf.In (23.17 N.m) LXM05AD42M3X, 200...240 V, three phase</p> <p>203.66 Lbf.In (23.01 N.m) LXM05BD34N4, 380...480 V, three phase</p> <p>205.07 Lbf.In (23.17 N.m) LXM05BD42M3X, 200...240 V, three phase</p> <p>203.66 Lbf.In (23.01 N.m) LXM05CD34N4, 380...480 V, three phase</p> <p>205.07 Lbf.in (23.17 N.m) LXM05CD42M3X, 200...240 V, three phase</p>
Nominal output power	<p>2000 W LXM32.D30N4 10 A, 400 V, three phase</p> <p>2600 W LXM32.D30N4 10 A, 480 V, three phase</p> <p>1100 W LXM05AD28M2, 200...240 V, single phase</p> <p>1100 W LXM05BD28M2, 200...240 V, single phase</p> <p>1100 W LXM05CD28M2, 200...240 V, single phase</p> <p>1100 W LXM05AD42M3X, 200...240 V, three phase</p> <p>1100 W LXM05BD42M3X, 200...240 V, three phase</p> <p>1100 W LXM05CD42M3X, 200...240 V, three phase</p> <p>1300 W LXM15LD28M3, 230 V, three phase</p> <p>1700 W LXM15LD17N4, 230 V, three phase</p> <p>1700 W LXM15LD21M3, 230 V, three phase</p> <p>1800 W LXM05AD34N4, 380...480 V, three phase</p> <p>1800 W LXM05BD34N4, 380...480 V, three phase</p> <p>1800 W LXM05CD34N4, 380...480 V, three phase</p> <p>2000 W LXM15MD28N4, 400 V, three phase</p> <p>2000 W LXM15MD40N4, 400 V, three phase</p> <p>2200 W LXM15LD17N4, 400 V, three phase</p> <p>2200 W LXM15MD28N4, 480 V, three phase</p> <p>2200 W LXM15MD40N4, 480 V, three phase</p> <p>2300 W LXM15LD17N4, 480 V, three phase</p>

Nominal torque	<p>55.76 Lbf.In (6.3 N.m) LXM32.D30N4 10 A, 400 V, three phase</p> <p>55.76 Lbf.In (6.3 N.m) LXM32.D30N4 10 A, 480 V, three phase</p> <p>32.75 Lbf.In (3.7 N.m) LXM15LD17N4, 480 V, three phase</p> <p>59.57 Lbf.In (6.73 N.m) LXM05AD28M2, 200...240 V, single phase</p> <p>59.57 Lbf.In (6.73 N.m) LXM05BD28M2, 200...240 V, single phase</p> <p>59.57 Lbf.In (6.73 N.m) LXM05CD28M2, 200...240 V, single phase</p> <p>40.71 Lbf.In (4.6 N.m) LXM15MD28N4, 480 V, three phase</p> <p>40.71 Lbf.In (4.6 N.m) LXM15MD40N4, 480 V, three phase</p> <p>41.60 Lbf.In (4.7 N.m) LXM15LD17N4, 400 V, three phase</p> <p>44.25 Lbf.In (5 N.m) LXM15MD28N4, 400 V, three phase</p> <p>44.25 Lbf.In (5 N.m) LXM15MD40N4, 400 V, three phase</p> <p>50.45 Lbf.In (5.7 N.m) LXM05AD34N4, 380...480 V, three phase</p> <p>50.45 Lbf.In (5.7 N.m) LXM05BD34N4, 380...480 V, three phase</p> <p>50.45 Lbf.In (5.7 N.m) LXM05CD34N4, 380...480 V, three phase</p> <p>53.10 Lbf.In (6 N.m) LXM15LD17N4, 230 V, three phase</p> <p>53.10 Lbf.In (6 N.m) LXM15LD21M3, 230 V, three phase</p> <p>55.76 Lbf.In (6.3 N.m) LXM15LD28M3, 230 V, three phase</p> <p>59.57 Lbf.In (6.73 N.m) LXM05AD42M3X, 200...240 V, three phase</p> <p>59.57 Lbf.In (6.73 N.m) LXM05BD42M3X, 200...240 V, three phase</p> <p>59.57 lbf.in (6.73 N.m) LXM05CD42M3X, 200...240 V, three phase</p>
Nominal speed	<p>3000 rpm LXM32.D30N4 10 A, 400 V, three phase</p> <p>4000 rpm LXM32.D30N4 10 A, 480 V, three phase</p> <p>4500 rpm LXM15LD17N4, 400 V, three phase</p> <p>6000 rpm LXM15LD17N4, 480 V, three phase</p> <p>1500 rpm LXM05AD28M2, 200...240 V, single phase</p> <p>1500 rpm LXM05BD28M2, 200...240 V, single phase</p> <p>1500 rpm LXM05CD28M2, 200...240 V, single phase</p> <p>1500 rpm LXM05AD42M3X, 200...240 V, three phase</p> <p>1500 rpm LXM05BD42M3X, 200...240 V, three phase</p> <p>1500 rpm LXM05CD42M3X, 200...240 V, three phase</p> <p>2000 rpm LXM15LD28M3, 230 V, three phase</p> <p>2500 rpm LXM15LD17N4, 230 V, three phase</p> <p>2500 rpm LXM15LD21M3, 230 V, three phase</p> <p>3000 rpm LXM05AD34N4, 380...480 V, three phase</p> <p>3000 rpm LXM05BD34N4, 380...480 V, three phase</p> <p>3000 rpm LXM05CD34N4, 380...480 V, three phase</p> <p>4000 rpm LXM15MD28N4, 400 V, three phase</p> <p>4000 rpm LXM15MD40N4, 400 V, three phase</p> <p>4500 rpm LXM15MD28N4, 480 V, three phase</p> <p>4500 rpm LXM15MD40N4, 480 V, three phase</p>

Product compatibility	LXM05AD28M2 200...240 V single phase LXM05BD28M2 200...240 V single phase LXM05CD28M2 200...240 V single phase LXM15LD21M3 230 V three phase LXM05AD42M3X 200...240 V three phase LXM05BD42M3X 200...240 V three phase LXM05CD42M3X 200...240 V three phase LXM15LD17N4 230 V three phase LXM15LD17N4 400 V three phase LXM15LD17N4 480 V three phase LXM15LD28M3 230 V three phase LXM05AD34N4 380...480 V three phase LXM05BD34N4 380...480 V three phase LXM05CD34N4 380...480 V three phase LXM15MD28N4 400 V three phase LXM15MD28N4 480 V three phase LXM15MD40N4 400 V three phase LXM15MD40N4 480 V three phase LXM32.D30N4 400 V three phase LXM32.D30N4 480 V three phase
Shaft end	Untapped
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting Support	International standard flange
Electrical Connection	Straight connectors

Complementary

Range Compatibility	Lexium 05 Lexium 32 Lexium 15
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	6.6 A
Maximum continuous power	3.14 W
Maximum current Irms	28.3 A LXM15LD21M3 28.3 A LXM15LD28M3 28.3 A LXM15LD17N4 28.3 A LXM15MD28N4 28.3 A LXM15MD40N4 28.3 A LXM05AD28M2 28.3 A LXM05AD42M3X 28.3 A LXM05AD34N4 28.3 A LXM05BD28M2 28.3 A LXM05BD42M3X 28.3 A LXM05BD34N4 28.3 A LXM05CD28M2 28.3 A LXM05CD42M3X 28.3 A LXM05CD34N4 28.3 A LXM32.D30N4
Maximum permanent current	28.3 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)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	3.94 in (100 mm)
Number of motor stacks	3
Torque constant	1.22 N.m/A 248 °F (120 °C)
Back emf constant	77 V/krpm 248 °F (120 °C)
Number of motor poles	8
Rotor inertia	3.22 kg.cm ²
Stator resistance	1.43 Ohm 68 °F (20 °C)
Stator inductance	8.8 mH 68 °F (20 °C)
Stator electrical time constant	6.15 ms 68 °F (20 °C)

Maximum radial force Fr	1050 N 1000 rpm 660 N 4000 rpm 730 N 3000 rpm 830 N 2000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	9.47 in (240.5 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)
Product Weight	16.31 lb(US) (7.4 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	3389118140158
Nbr. of units in pkg.	1
Package weight(Lbs)	16.53 lb(US) (7.5 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

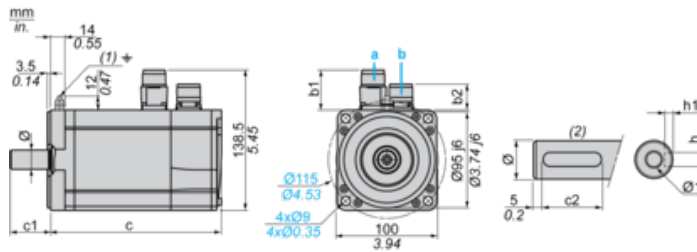
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
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.
PVC free	Yes

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	241	272	40	30	6 N9	3.5 ^{+0.1} ₀	19 k6	M6 x 16

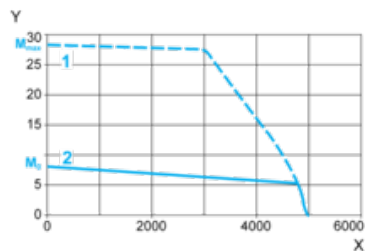
Dimensions in in.

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	9.48	10.70	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•D30N4 servo drive



X Speed in rpm

Y Torque in Nm

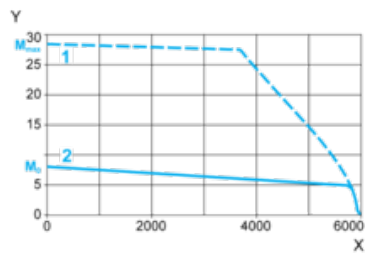
1 Peak torque

2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



X Speed in rpm

Y Torque in Nm

1 Peak torque

2 Continuous torque