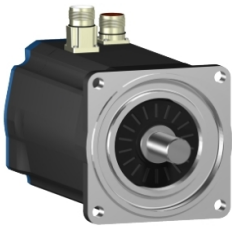


Product data sheet

Specifications



servo motor BSH, Lexium 32,
32.1N.m, 3000rpm, 140mm,
untapped shaft, Sincos multi turn,
without brake, IP65, straight

BSH1404P22A1P

Product availability: Non-Stock - Not normally stocked in
distribution facility

Main

Device short name	BSH
Product or Component Type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	295.6 lbf.in (33.4 N.m) LXM32.D72N4 24 A, 400 V, three phase 295.6 lbf.in (33.4 N.m) LXM32.D72N4 24 A, 480 V, three phase 284.1 lbf.in (32.1 N.m) LXM05AD57N4, 380...480 V, three phase 284.1 lbf.in (32.1 N.m) LXM05BD57N4, 380...480 V, three phase 284.1 lbf.in (32.1 N.m) LXM05CD57N4, 380...480 V, three phase
Peak stall torque	916.9 lbf.in (103.6 N.m) LXM32.D72N4 24 A, 400 V, three phase 916.9 lbf.in (103.6 N.m) LXM32.D72N4 24 A, 480 V, three phase 558.39 lbf.in (63.09 N.m) LXM05AD57N4, 380...480 V, three phase 558.39 lbf.in (63.09 N.m) LXM05BD57N4, 380...480 V, three phase 558.39 lbf.in (63.09 N.m) LXM05CD57N4, 380...480 V, three phase
Nominal output power	5000 W LXM32.D72N4 24 A, 400 V, three phase 5000 W LXM32.D72N4 24 A, 480 V, three phase 3400 W LXM05AD57N4, 380...480 V, three phase 3400 W LXM05BD57N4, 380...480 V, three phase 3400 W LXM05CD57N4, 380...480 V, three phase
Nominal torque	168.2 lbf.in (19 N.m) LXM32.D72N4 24 A, 400 V, three phase 168.2 lbf.in (19 N.m) LXM32.D72N4 24 A, 480 V, three phase 95.6 lbf.in (10.8 N.m) LXM05AD57N4, 380...480 V, three phase 95.6 lbf.in (10.8 N.m) LXM05BD57N4, 380...480 V, three phase 95.6 lbf.in (10.8 N.m) LXM05CD57N4, 380...480 V, three phase
Nominal speed	2500 rpm LXM32.D72N4 24 A, 400 V, three phase 2500 rpm LXM32.D72N4 24 A, 480 V, three phase 3000 rpm LXM05AD57N4, 380...480 V, three phase 3000 rpm LXM05BD57N4, 380...480 V, three phase 3000 rpm LXM05CD57N4, 380...480 V, three phase
Product compatibility	LXM05AD57N4 380...480 V three phase LXM05BD57N4 380...480 V three phase LXM05CD57N4 380...480 V three phase LXM32.D72N4 400 V three phase LXM32.D72N4 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Range Compatibility	Lexium 32 Lexium 05
supply voltage max	480 V
Phase	Three phase
Continuous stall current	21.3 A
maximum continuous power	4.33 W
Maximum current Irms	72 A LXM32.D72N4 95.6 A LXM05AD57N4 95.6 A LXM05BD57N4 95.6 A LXM05CD57N4
Maximum permanent current	95.6 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Feedback type	Multiturn SinCos Hiperface
Motor flange size	5.5 in (140 mm)
Number of motor stacks	4
Torque constant	1.57 N.m/A 248 °F (120 °C)
Back emf constant	104 V/krpm 248 °F (120 °C)
Number of motor poles	5.0
Rotor inertia	23.7 kg.cm²
Stator resistance	0.28 Ohm 68 °F (20 °C)
Stator inductance	2.035 mH 68 °F (20 °C)
Stator electrical time constant	13.93 ms 68 °F (20 °C)
Maximum radial force Fr	1840 N 3000 rpm 2110 N 2000 rpm 2660 N 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	15.06 in (382.5 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Product Weight	57.3 lb(US) (26 kg)
Sizing reference	BSH1404P
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	248 °F (120 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)

Output current 3s peak	95.6 A
Inertia	0.0 kg.cm² of brake 23.7 kg.cm² of motor

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3389118361591
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.6 in (27.0 cm)
Package 1 Width	10.6 in (27.0 cm)
Package 1 Length	23.9 in (60.6 cm)
Package weight(Lbs)	40.8 lb(US) (18.5 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	5 467 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	81 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.2 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 382 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



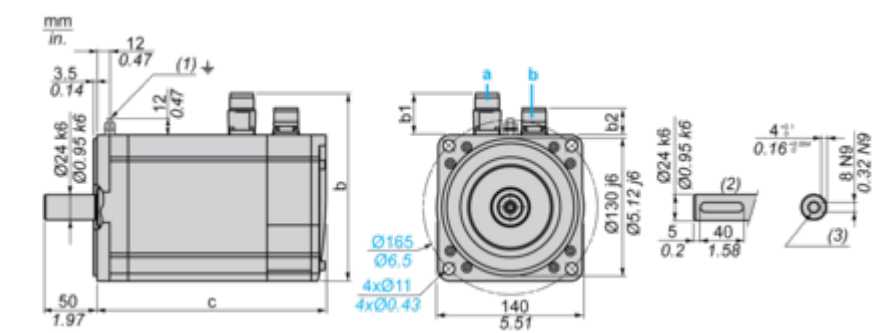
Repack and remanufacture

Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

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)
(3) For screws M8 x 19 mm/M8 x 0.75 in.

Straight connectors			Rotatable angled connectors			c (without brake)	c (with brake)
b	b1	b2	b	b1	b2		
192.5	54	25.5	198.5	60	39.5	383	421

Dimensions in in.

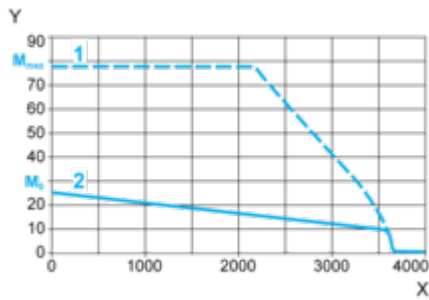
Straight connectors			Rotatable angled connectors			c (without brake)	c (with brake)
b	b1	b2	b	b1	b2		
7.57	2.12	1.00	7.81	2.36	1.55	15.07	16.57

Performance Curves

400 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive

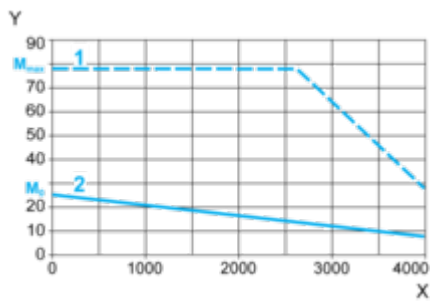


X Speed in rpm
Y Torque in Nm
1 Peak torque
2 Continuous torque

480 V 3-Phase Supply Voltage

Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



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