

# BSH1004T21F2A

servo motor BSH, Lexium 15, 8.18N.m,  
3500rpm, 100mm, untapped shaft, Sincos  
single turn, with brake, IP65



## Main

Device short name	BSH
Product or Component Type	Servo motor
Maximum mechanical speed	6000 rpm
Continuous stall torque	82.40 Lbf.in (9.31 N.m) LXM15MD40N4, 230 V, three phase 72.40 lbf.in (8.18 N.m) LXM15LD28M3, 230 V, three phase
Peak stall torque	139.0 Lbf.in (15.7 N.m) LXM15LD28M3, 230 V, three phase 186.22 lbf.in (21.04 N.m) LXM15MD40N4, 230 V, three phase
Nominal output power	2500 W LXM15LD28M3, 230 V, three phase 2500 W LXM15MD40N4, 230 V, three phase
Nominal torque	62.0 Lbf.in (7 N.m) LXM15LD28M3, 230 V, three phase 62.0 lbf.in (7 N.m) LXM15MD40N4, 230 V, three phase
Nominal speed	3500 rpm LXM15LD28M3, 230 V, three phase 3500 rpm LXM15MD40N4, 230 V, three phase
Product compatibility	LXM15LD28M3 230 V three phase LXM15MD40N4 230 V three phase
Shaft end	Untapped
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Rotatable right-angled connectors

## Complementary

Range Compatibility	Lexium 15
Supply voltage max	480 V
Phase	Three phase
Continuous stall current	12.7 A
Maximum continuous power	3.64 W
Maximum permanent current	66.3 A
Second shaft	Without second shaft end
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Feedback type	Single turn SinCos Hiperface
Holding torque	106.2 lbf.in (12 N.m) holding brake
Motor flange size	3.9 in (100 mm)
Number of motor stacks	4
Torque constant	1.62 N.m/A 248.0000000000 °F (120 °C) 0.86 N.m/A 248.0000000000 °F (120 °C)
Back emf constant	103 V/Krpm 248.0000000000 °F (120 °C) 50 V/krpm 248.0000000000 °F (120 °C)

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Number of motor poles	8
Rotor inertia	5.245 kg.cm <sup>2</sup>
Stator resistance	1.81 Ohm 68.0000000000 °F (20 °C)
Stator inductance	13 MH 68.0000000000 °F (20 °C) 2.9 mH 68.0000000000 °F (20 °C)
Stator electrical time constant	6.44 Ms 68.0000000000 °F (20 °C) 7.18 ms 68.0000000000 °F (20 °C)
Maximum radial force Fr	1070 N 1000 rpm 740 N 3000 rpm 850 N 2000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	17 W
Type of cooling	Natural convection
Length	12.1 in (307.5 mm)
Centring collar diameter	3.7 in (95 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (9 mm)
Circle diameter of the mounting holes	4.5 in (115 mm)
Net Weight	21.8 lb(US) (9.9 kg)

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3389118199330
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.6 in (19.2 cm)
Package 1 Width	6.9 in (17.5 cm)
Package 1 Length	21.9 in (55.7 cm)
Package 1 Weight	23.6 lb(US) (10.7 kg)

## 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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.

## Contractual warranty

Warranty	18 months
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