Product datasheet

Specifications

servo motor BSH, Lexium 15, 11.1N.m, 1500rpm, 140mm, keyed shaft, Sincos single turn, with brake, IP50, straight

BSH1401M11F1A

Discontinued

Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	4000 rpm
Continuous stall torque	11.1 N.m for LXM15MD28N4, 400 V, three phase 11.1 N.m for LXM15MD28N4, 480 V, three phase
Peak stall torque	26 N.m for LXM15MD28N4, 400 V, three phase 26 N.m for LXM15MD28N4, 480 V, three phase
Nominal output power	1500 W for LXM15MD28N4, 400 V, three phase 1500 W for LXM15MD28N4, 480 V, three phase
Nominal torque	10.1 N.m for LXM15MD28N4, 480 V, three phase 10.4 N.m for LXM15MD28N4, 400 V, three phase
Nominal speed	1500 rpm for LXM15MD28N4, 400 V, three phase 1500 rpm for LXM15MD28N4, 480 V, three phase
Product compatibility	LXM15MD28N4 at 400 V three phase LXM15MD28N4 at 480 V three phase
Shaft end	Keyed
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 15
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	4 A
maximum continuous power	4.1 W
Maximum current Irms	10.8 A for LXM15MD28N4
Maximum permanent current	10.8 A
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm

Key width	40 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	23 N.m holding brake
Motor flange size	140 mm
Torque constant	2.78 N.m/A at 120 °C
Back emf constant	194 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	8.56 kg.cm²
Stator resistance	5.3 Ohm at 20 °C
Stator inductance	60.85 mH at 20 °C
Stator electrical time constant	11.59 ms at 20 °C
Maximum radial force Fr	1530 N at 3000 rpm 1760 N at 2000 rpm 2210 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	24 W
Type of cooling	Natural convection
Length	255.5 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Product weight	13 kg
Sizing reference	BSH1401M
Network number of phases	3
Accuracy error [angular]	1.4 °
Temperature copper hot	120 °C
Temperature magnet hot	100 °C
Temperature magnet rt	20 °C

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18

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 >

Use Longer

Lifetime extension

Repair	No