Product datasheet
Characteristics

BSH1004T12F2A

Main

Product or component type	Servo motor
Device short name	BSH
Maximum mechanical speed	6000 rpm
Continuous stall torque	82.39 lbf.in (9.31 N.m) LXM15MD40N4 at 230 V three phase 72.39 lbf.in (8.18 N.m) LXM15LD28M3 at 230 V three phase
Peak stall torque	138.94 lbf.in (15.7 N.m) LXM15LD28M3 at 230 V three phase 186.19 lbf.in (21.04 N.m) LXM15MD40N4 at 230 V three phase
Nominal output power	2500 W LXM15LD28M3 at 230 V three phase 2500 W LXM15MD40N4 at 230 V three phase
Nominal torque	61.95 lbf.in (7 N.m) LXM15LD28M3 at 230 V three phase 61.95 lbf.in (7 N.m) LXM15MD40N4 at 230 V three phase
Nominal speed	3500 rpm LXM15LD28M3 at 230 V three phase 3500 rpm LXM15MD40N4 at 230 V three phase
Product compatibility	LXM15LD28M3 at 230 V three phase LXM15MD40N4 at 230 V three phase
Shaft end	Keyed
IP degree of protection	IP50 (standard)
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 15
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	12.7 A
Continuous power	3.64 W
Maximum current Irms	61 A LXM15MD40N4 34.8 A LXM15LD28M3
Maximum permanent current	66.3 A
Second shaft	Without second shaft end
Shaft diameter	0.94 in (24 mm)
Shaft length	1.97 in (50 mm)
Key width	1.57 in (40 mm)
Feedback type	Multiturn SinCos Hiperface
Holding torque	106.19 lbf.in (12 N.m) (holding brake)
Motor flange size	3.94 in (100 mm)
Number of motor stacks	4
Torque constant	1.62 N.m/A at 248 °F (120 °C) 0.86 N.m/A at 248 °F (120 °C)
Back emf constant	103 V/krpm at 248 °F (120 °C) 50 V/krpm at 248 °F (120 °C)
Number of motor poles	8
Rotor inertia	5.245 kg.cm²

Stator resistance	1.81 Ohm at 68 °F (20 °C)
Stator inductance	13 mH at 68 °F (20 °C) 2.9 mH at 68 °F (20 °C)
Stator electrical time constant	6.44 ms at 68 °F (20 °C) 7.18 ms at 68 °F (20 °C)
Maximum radial force Fr	1070 N at 1000 rpm 740 N at 3000 rpm 850 N at 2000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	17 W
Type of cooling	Natural convection
Length	12.11 in (307.5 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	21.83 lb(US) (9.9 kg)

Environment

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 1018 - Schneider Electric declaration of conformity	Compliant - since 1018 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Need no specific recycling operations	Need no specific recycling operations

Contractual warranty

Warranty period	18 months