Product datasheet

Specifications

Discontinued

servo motor BSH, Lexium 15, 62.5N.m, 2000rpm, 205mm, untapped shaft, Sincos multi turn, without brake, IP50

BSH2052P02A3A

End-of-service on: 13 Jan 2021

Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	62.5 N.m for LXM15HC11N4X, 400 V, three phase 62.5 N.m for LXM15HC11N4X, 480 V, three phase 62.5 N.m for LXM15HC20N4X, 230 V, three phase 62.5 N.m for LXM15HC20N4X, 400 V, three phase 62.5 N.m for LXM15HC20N4X, 480 V, three phase 65 N.m for LXM15HC11N4X, 230 V, three phase
Peak stall torque	220 N.m for LXM15HC20N4X, 400 V, three phase 220 N.m for LXM15HC20N4X, 480 V, three phase 193.45 N.m for LXM15HC20N4X, 230 V, three phase 118.54 N.m for LXM15HC11N4X, 230 V, three phase 189.9 N.m for LXM15HC11N4X, 400 V, three phase 189.9 N.m for LXM15HC11N4X, 480 V, three phase
Nominal output power	5400 W for LXM15HC11N4X, 230 V, three phase 5400 W for LXM15HC20N4X, 230 V, three phase 7120 W for LXM15HC11N4X, 400 V, three phase 7120 W for LXM15HC11N4X, 480 V, three phase 7120 W for LXM15HC20N4X, 400 V, three phase 7120 W for LXM15HC20N4X, 480 V, three phase
Nominal torque	34 N.m for LXM15HC11N4X, 400 V, three phase 34 N.m for LXM15HC11N4X, 480 V, three phase 34 N.m for LXM15HC20N4X, 400 V, three phase 34 N.m for LXM15HC20N4X, 480 V, three phase 51.7 N.m for LXM15HC11N4X, 230 V, three phase 51.7 N.m for LXM15HC20N4X, 230 V, three phase
Nominal speed	1000 rpm for LXM15HC11N4X, 230 V, three phase 1000 rpm for LXM15HC20N4X, 230 V, three phase 2000 rpm for LXM15HC11N4X, 400 V, three phase 2000 rpm for LXM15HC11N4X, 480 V, three phase 2000 rpm for LXM15HC20N4X, 400 V, three phase 2000 rpm for LXM15HC20N4X, 480 V, three phase
Product compatibility	LXM15HC11N4X at 400 V three phase LXM15HC11N4X at 480 V three phase LXM15HC11N4X at 230 V three phase LXM15HC20N4X at 230 V three phase LXM15HC20N4X at 400 V three phase LXM15HC20N4X at 480 V three phase
Shaft end	Untapped
IP degree of protection	IP50 standard
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange

Electrical connection	Rotatable right-angled connectors Power connection terminal

Complementary

Range compatibility	Lexium 15
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	24.2 A
maximum continuous power	3.32 W
Maximum current Irms	96.8 A for LXM15HC11N4X 96.8 A for LXM15HC20N4X
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Feedback type	Multiturn SinCos Hiperface
Motor flange size	205 mm
Number of motor stacks	2
Torque constant	2.58 N.m/A at 120 °C
Back emf constant	161 V/krpm at 120 °C
Rotor inertia	129 kg.cm²
Stator resistance	0.3 Ohm at 20 °C
Stator inductance	5.4 mH at 20 °C
Stator electrical time constant	18 ms at 20 °C
Maximum radial force Fr	2910 N at 3000 rpm 3330 N at 2000 rpm 4200 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	405 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Net weight	50 kg
Sizing reference	BSH2052P
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
Package 1 Height	41 cm
Package 1 Width	31 cm
Package 1 Length	58.5 cm
Package 1 Weight	46 kg

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