

Product datasheet

Specifications



servo motor BSH, Lexium 15, 100mm, IP50, Without key

BSH1003P05F2A

⚠ Discontinued on: 11 Sept 2025

⚠ Discontinued

Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	6000 rpm
IP degree of protection	IP50 standard
Mounting support	International standard flange

Complementary

Range compatibility	Lexium 32 Lexium 15 Lexium 05
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	6.6 A
maximum continuous power	3.14 W
Maximum permanent current	28.3 A
Switching frequency	8 kHz
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm
Key width	30 mm
Motor flange size	100 mm
Number of motor stacks	3
Number of motor poles	8
Stator resistance	1.43 Ohm at 20 °C
Stator inductance	8.8 mH at 20 °C
Stator electrical time constant	6.15 ms at 20 °C
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Centring collar diameter	95 mm
Centring collar depth	3.5 mm
Number of mounting holes	4

Mounting holes diameter	9 mm
Circle diameter of the mounting holes	115 mm
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	15.4 cm
Package 1 Width	16.3 cm
Package 1 Length	40.7 cm
Package 1 Weight	8.15 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	4 437 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	36 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	4 399 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.8 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Take-back	Yes
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