

# Product datasheet

Specifications



## AC servo motor BSH - 1.4 N.m - 1500 rpm - untapped shaft - with brake - IP65

BSH0701M22F2A

⚠ Discontinued on: 20 Jul 2023

⚠ End-of-service on: 20 Jul 2023

⚠ Discontinued - Service only

EAN Code: 3389118147430

### Main

Device short name	BSH
Product or component type	Servo motor
Maximum mechanical speed	8000 rpm
Continuous stall torque	1.4 N.m for LXM05AD10M3X, 200...240 V, three phase 1.4 N.m for LXM05BD10M3X, 200...240 V, three phase 1.4 N.m for LXM05CD10M3X, 200...240 V, three phase
Peak stall torque	2.66 N.m for LXM05AD10M3X, 200...240 V, three phase 2.66 N.m for LXM05BD10M3X, 200...240 V, three phase 2.66 N.m for LXM05CD10M3X, 200...240 V, three phase
Nominal output power	210 W for LXM05AD10M3X, 200...240 V, three phase 210 W for LXM05BD10M3X, 200...240 V, three phase 210 W for LXM05CD10M3X, 200...240 V, three phase
Nominal torque	1.36 N.m for LXM05AD10M3X, 200...240 V, three phase 1.36 N.m for LXM05BD10M3X, 200...240 V, three phase 1.36 N.m for LXM05CD10M3X, 200...240 V, three phase
Nominal speed	1500 rpm for LXM05AD10M3X, 200...240 V, three phase 1500 rpm for LXM05BD10M3X, 200...240 V, three phase 1500 rpm for LXM05CD10M3X, 200...240 V, three phase
Product compatibility	LXM05AD10M3X at 200...240 V three phase LXM05BD10M3X at 200...240 V three phase LXM05CD10M3X at 200...240 V three phase
Shaft end	Untapped
IP degree of protection	IP65 standard IP67 with IP67 kit
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 05
supply voltage max	480 V
Network number of phases	Three phase
Continuous stall current	1 A
maximum continuous power	1.06 W

<b>Maximum current Irms</b>	3.1 A for LXM05AD10M3X 3.1 A for LXM05BD10M3X 3.1 A for LXM05CD10M3X
<b>Maximum permanent current</b>	3.1 A
<b>Switching frequency</b>	4 kHz
<b>Second shaft</b>	Without second shaft end
<b>Shaft diameter</b>	11 mm
<b>Shaft length</b>	23 mm
<b>Feedback type</b>	Multiturn SinCos Hiperface
<b>Holding torque</b>	2 N.m holding brake
<b>Motor flange size</b>	70 mm
<b>Torque constant</b>	1.4 N.m/A at 120 °C
<b>Back emf constant</b>	85 V/krpm at 120 °C
<b>Rotor inertia</b>	0.322 kg.cm <sup>2</sup>
<b>Stator resistance</b>	35.4 Ohm at 20 °C
<b>Stator inductance</b>	131.9 mH at 20 °C
<b>Stator electrical time constant</b>	3.73 ms at 20 °C
<b>Maximum radial force Fr</b>	360 N at 6000 rpm 380 N at 5000 rpm 410 N at 4000 rpm 460 N at 3000 rpm 520 N at 2000 rpm 660 N at 1000 rpm
<b>Maximum axial force Fa</b>	0.2 x Fr
<b>Brake pull-in power</b>	10 W
<b>Type of cooling</b>	Natural convection
<b>Length</b>	179.5 mm
<b>Centring collar diameter</b>	60 mm
<b>Centring collar depth</b>	2.5 mm
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	5.5 mm
<b>Circle diameter of the mounting holes</b>	82 mm
<b>Net weight</b>	2.3 kg
<b>Sizing reference</b>	BSH0701M
<b>Network number of phases</b>	3
<b>Accuracy error [angular]</b>	1.4 °
<b>Temperature copper hot</b>	120 °C
<b>Temperature magnet hot</b>	100 °C
<b>Temperature magnet rt</b>	20 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	12.3 cm

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Package 1 Width	12.8 cm
Package 1 Length	37.7 cm
Package 1 Weight	2.55 kg

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## Contractual warranty

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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 >](#)

### Use Longer



#### Lifetime extension

Repair

No