

# Product datasheet

Specifications



## AC servo motors BRH - 5.2 N.m - 6000 rpm - untapped shaft - with brake - IP56

BRH1101P21F2A

### Main

<b>Product or component type</b>	Motion servo motors
<b>Component name</b>	BRH
<b>Continuous stall torque</b>	5.2 N.m
<b>Peak stall torque</b>	13 N.m for LXM05AD34N4 13 N.m for LXM05BD34N4 13 N.m for LXM05CD34N4 14 N.m for LXM05AD28M2 14 N.m for LXM05BD28M2 14 N.m for LXM05CD28M2 16.2 N.m for LXM05AD42M3X 16.2 N.m for LXM05BD42M3X 16.2 N.m for LXM05CD42M3X
<b>Nominal output power</b>	1400 W for LXM05AD28M2 1400 W for LXM05AD42M3X 1400 W for LXM05BD28M2 1400 W for LXM05BD42M3X 1400 W for LXM05CD28M2 1400 W for LXM05CD42M3X 1900 W for LXM05AD34N4 1900 W for LXM05BD34N4 1900 W for LXM05CD34N4
<b>Nominal speed</b>	3000 rpm for LXM05AD28M2 3000 rpm for LXM05AD42M3X 3000 rpm for LXM05BD28M2 3000 rpm for LXM05BD42M3X 3000 rpm for LXM05CD28M2 3000 rpm for LXM05CD42M3X 4500 rpm for LXM05AD34N4 4500 rpm for LXM05BD34N4 4500 rpm for LXM05CD34N4
<b>Maximum mechanical speed</b>	6000 rpm
<b>Product compatibility</b>	LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases LXM05CD42M3X at 230 V 3 phases
<b>Shaft end</b>	Untapped
<b>IP degree of protection</b>	IP56
<b>Encoder type</b>	Single turn SinCos Hiperface
<b>Speed feedback resolution</b>	131072 points/turn
<b>Holding brake</b>	With
<b>Mounting support</b>	International standard flange
<b>Electrical connection</b>	Rotatable right-angled connectors

<b>Nominal torque</b>	4.04 N.m for LXM05AD34N4
	4.04 N.m for LXM05BD34N4
	4.04 N.m for LXM05CD34N4
	4.5 N.m for LXM05AD28M2
	4.5 N.m for LXM05AD42M3X
	4.5 N.m for LXM05BD28M2
	4.5 N.m for LXM05BD42M3X
	4.5 N.m for LXM05CD28M2
	4.5 N.m for LXM05CD42M3X

<b>Number of poles</b>	10
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<b>Maximum radial force Fr</b>	629 N at 6000 rpm
	655 N at 5000 rpm
	688 N at 4000 rpm
	697 N at 3000 rpm
	709 N at 2000 rpm
	729 N at 1000 rpm

## Complementary

<b>Range compatibility</b>	Lexium 05
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<b>Switching frequency</b>	8 kHz
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<b>Maximum current Irms</b>	18 A for LXM05AD34N4
	18 A for LXM05BD34N4
	18 A for LXM05CD34N4
	20 A for LXM05AD28M2
	20 A for LXM05BD28M2
	20 A for LXM05CD28M2
	30 A for LXM05AD42M3X
	30 A for LXM05BD42M3X
	30 A for LXM05CD42M3X

<b>Torque constant</b>	0.83 N.m/A at 120 °C
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<b>Back emf constant</b>	54.2 V/krpm at 120 °C
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<b>Rotor inertia</b>	4.5 kg.cm <sup>2</sup> without brake
	5.8 kg.cm <sup>2</sup> with brake

<b>Stator resistance</b>	1.2 Ohm
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<b>Stator inductance</b>	8.1 mH
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<b>Stator electrical time constant</b>	6.5 ms
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<b>Maximum axial force Fa</b>	0.2 x Fr
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<b>Net weight</b>	4.9 kg
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## Contractual warranty

<b>Warranty (in months)</b>	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