

# Product datasheet

Specifications



## AC servo motors BRH - 12 N.m - 4500 rpm - untapped shaft - without brake - IP41

BRH1103P01A1A

### Main

<b>Product or component type</b>	Motion servo motors
<b>Component name</b>	BRH
<b>Continuous stall torque</b>	12 N.m
<b>Peak stall torque</b>	18.9 N.m for LXM05AD34N4 18.9 N.m for LXM05BD34N4 18.9 N.m for LXM05CD34N4 21 N.m for LXM05AD28M2 21 N.m for LXM05BD28M2 21 N.m for LXM05CD28M2 30.3 N.m for LXM05AD42M3X 30.3 N.m for LXM05AD57N4 30.3 N.m for LXM05BD42M3X 30.3 N.m for LXM05BD57N4 30.3 N.m for LXM05CD42M3X 30.3 N.m for LXM05CD57N4
<b>Nominal output power</b>	1550 W for LXM05AD28M2 1550 W for LXM05AD42M3X 1550 W for LXM05BD28M2 1550 W for LXM05BD42M3X 1550 W for LXM05CD28M2 1550 W for LXM05CD42M3X 2360 W for LXM05AD34N4 2360 W for LXM05AD57N4 2360 W for LXM05BD34N4 2360 W for LXM05BD57N4 2360 W for LXM05CD34N4 2360 W for LXM05CD57N4
<b>Nominal speed</b>	1500 rpm for LXM05AD28M2 1500 rpm for LXM05AD42M3X 1500 rpm for LXM05BD28M2 1500 rpm for LXM05BD42M3X 1500 rpm for LXM05CD28M2 1500 rpm for LXM05CD42M3X 3000 rpm for LXM05AD34N4 3000 rpm for LXM05AD57N4 3000 rpm for LXM05BD34N4 3000 rpm for LXM05BD57N4 3000 rpm for LXM05CD34N4 3000 rpm for LXM05CD57N4
<b>Maximum mechanical speed</b>	4500 rpm
<b>Product compatibility</b>	LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05AD57N4 at 400/480 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases LXM05BD57N4 at 400/480 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases LXM05CD42M3X at 230 V 3 phases LXM05CD57N4 at 400/480 V 3 phases
<b>Shaft end</b>	Untapped

<b>IP degree of protection</b>	IP41
<b>Encoder type</b>	Single turn SinCos Hiperface
<b>Speed feedback resolution</b>	131072 points/turn
<b>Holding brake</b>	Without
<b>Mounting support</b>	International standard flange
<b>Electrical connection</b>	Straight connectors
<b>Nominal torque</b>	10 N.m for LXM05AD28M2 10 N.m for LXM05AD42M3X 10 N.m for LXM05BD28M2 10 N.m for LXM05BD42M3X 10 N.m for LXM05CD28M2 10 N.m for LXM05CD42M3X 7.5 N.m for LXM05AD34N4 7.5 N.m for LXM05AD57N4 7.5 N.m for LXM05BD34N4 7.5 N.m for LXM05BD57N4 7.5 N.m for LXM05CD34N4 7.5 N.m for LXM05CD57N4
<b>Number of poles</b>	10
<b>Maximum radial force Fr</b>	857 N at 4000 rpm 869 N at 3000 rpm 883 N at 2000 rpm 908 N at 1000 rpm

## Complementary

<b>Range compatibility</b>	Lexium 05
<b>Switching frequency</b>	8 kHz
<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 LXM05AD57N4 30 A for LXM05BD42M3X 30 A for LXM05BD57N4 30 A for LXM05CD42M3X 30 A for LXM05CD57N4
<b>Torque constant</b>	1.06 N.m/A at 120 °C
<b>Back emf constant</b>	68.5 V/krpm at 120 °C
<b>Rotor inertia</b>	13.1 kg.cm <sup>2</sup> without brake 14.4 kg.cm <sup>2</sup> with brake
<b>Stator resistance</b>	0.5 Ohm
<b>Stator inductance</b>	3.9 mH
<b>Stator electrical time constant</b>	7.2 ms
<b>Maximum axial force Fa</b>	0.2 x Fr
<b>Net weight</b>	10.5 kg

## 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