

Product datasheet

Specifications



AC servo motors BRH - 9 N.m - 6000 rpm - keyed shaft - without brake - IP56

BRH0853M31A1A

⚠ Discontinued on: 8 Jul 2022

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EAN Code: 3389118359390

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	4.2 N.m
Peak stall torque	12 N.m for LXM05AD34N4 12 N.m for LXM05BD34N4 12 N.m for LXM05CD34N4 13 N.m for LXM05AD28M2 13 N.m for LXM05BD28M2 13 N.m for LXM05CD28M2 7.73 N.m for LXM05AD17M3X 7.73 N.m for LXM05BD17M3X 7.73 N.m for LXM05CD17M3X
Nominal output power	1250 W for LXM05AD34N4 1250 W for LXM05BD34N4 1250 W for LXM05CD34N4 970 W for LXM05AD17M3X 970 W for LXM05AD28M2 970 W for LXM05BD17M3X 970 W for LXM05BD28M2 970 W for LXM05CD17M3X 970 W for LXM05CD28M2
Nominal speed	3000 rpm for LXM05AD17M3X 3000 rpm for LXM05AD28M2 3000 rpm for LXM05BD17M3X 3000 rpm for LXM05BD28M2 3000 rpm for LXM05CD17M3X 3000 rpm for LXM05CD28M2 6000 rpm for LXM05AD34N4 6000 rpm for LXM05BD34N4 6000 rpm for LXM05CD34N4
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD17M3X at 230 V 3 phases LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05BD17M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05CD17M3X at 230 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases
Shaft end	Keyed
IP degree of protection	IP56
Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Electrical connection	Straight connectors
Nominal torque	2 N.m for LXM05AD34N4 2 N.m for LXM05BD34N4 2 N.m for LXM05CD34N4 3.1 N.m for LXM05AD17M3X 3.1 N.m for LXM05AD28M2 3.1 N.m for LXM05BD17M3X 3.1 N.m for LXM05BD28M2 3.1 N.m for LXM05CD17M3X 3.1 N.m for LXM05CD28M2
Number of poles	10
Maximum radial force Fr	220 N at 6000 rpm 223 N at 5000 rpm 230 N at 4000 rpm 237 N at 3000 rpm 244 N at 2000 rpm 287 N at 1000 rpm

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Maximum current Irms	11 A for LXM05AD17M3X 11 A for LXM05BD17M3X 11 A for LXM05CD17M3X 18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28M2 20 A for LXM05BD28M2 20 A for LXM05CD28M2
Torque constant	0.72 N.m/A at 120 °C
Back emf constant	46.8 V/krpm at 120 °C
Rotor inertia	2.9 kg.cm ² without brake 3.49 kg.cm ² with brake
Stator resistance	1.4 Ohm
Stator inductance	5.5 mH
Stator electrical time constant	4.1 ms
Maximum axial force Fa	0.2 x Fr
Net weight	4.4 kg



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