Product datasheet

Specifications

AC servo motors BRH - 0.46 N.m - 6000 rpm - untapped shaft - with brake - IP41

BRH0571P01F1A

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	0.46 N.m
Peak stall torque	1.26 N.m for LXM05CU70M2 1.39 N.m for LXM05AD14N4 1.39 N.m for LXM05BD14N4 1.39 N.m for LXM05CD14N4
Nominal output power	135 W for LXM05CU70M2 260 W for LXM05AD14N4 260 W for LXM05BD14N4 260 W for LXM05CD14N4
Nominal speed	3000 rpm for LXM05CU70M2 6000 rpm for LXM05AD14N4 6000 rpm for LXM05BD14N4 6000 rpm for LXM05CD14N4
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD14N4 at 400/480 V 3 phases LXM05BD14N4 at 400/480 V 3 phases LXM05CD14N4 at 400/480 V 3 phases LXM05CU70M2 at 230 V single phase
Shaft end	Untapped
IP degree of protection	IP41
Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Nominal torque	0.41 N.m for LXM05AD14N4 0.41 N.m for LXM05BD14N4 0.41 N.m for LXM05CD14N4 0.43 N.m for LXM05CU70M2
Number of poles	10
Maximum radial force Fr	109 N at 1000 rpm 72 N at 6000 rpm 73 N at 5000 rpm 74 N at 4000 rpm 76 N at 3000 rpm 81 N at 2000 rpm

Complementary

Range compatibility	Lexium 05

Switching frequency	8 kHz
Maximum current Irms	4.3 A for LXM05CU70M2 5.4 A for LXM05AD14N4 5.4 A for LXM05BD14N4 5.4 A for LXM05CD14N4
Torque constant	0.34 N.m/A at 120 °C
Back emf constant	20.9 V/krpm at 120 °C
Rotor inertia	0.18 kg.cm² with brake 0.18 kg.cm² without brake
Stator resistance	12.7 Ohm
Stator inductance	24.1 mH
Stator electrical time constant	1.9 ms
Maximum axial force Fa	0.2 x Fr
Net weight	1.1 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**