Product datasheet

Specifications

AC servo motors BRH - 1.05 N.m - 4500 rpm - untapped shaft - without brake- IP41

BRH0572P00A1A

Discontinued on: 4 Jul 2022

Discontinued

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	0.76 N.m
Peak stall torque	1.55 N.m for LXM05CU70M2 2.07 N.m for LXM05AD10F1 2.07 N.m for LXM05AD10M2 2.07 N.m for LXM05AD10M3X 2.07 N.m for LXM05BD10F1 2.07 N.m for LXM05BD10M2 2.07 N.m for LXM05BD10M3X 2.07 N.m for LXM05CD10F1 2.07 N.m for LXM05CD10M2 2.07 N.m for LXM05CD10M3X 2.46 N.m for LXM05AD14N4 2.46 N.m for LXM05BD14N4 2.46 N.m for LXM05CD14N4
Nominal output power	120 W for LXM05AD10F1 120 W for LXM05BD10F1 120 W for LXM05CD10F1 220 W for LXM05AD10M2 220 W for LXM05BD10M2 220 W for LXM05CD10M2 220 W for LXM05CU70M2 400 W for LXM05AD10M3X 400 W for LXM05AD14N4 400 W for LXM05BD10M3X 400 W for LXM05BD14N4 400 W for LXM05CD10M3X 400 W for LXM05CD14N4
Nominal speed	1500 rpm for LXM05AD10F1 1500 rpm for LXM05BD10F1 1500 rpm for LXM05CD10F1 3000 rpm for LXM05AD10M2 3000 rpm for LXM05BD10M2 3000 rpm for LXM05CD10M2 3000 rpm for LXM05CU70M2 6000 rpm for LXM05AD10M3X 6000 rpm for LXM05AD14N4 6000 rpm for LXM05BD10M3X 6000 rpm for LXM05BD14N4 6000 rpm for LXM05CD10M3X 6000 rpm for LXM05CD14N4
Maximum mechanical speed	8000 rpm

Product compatibility	LXM05AD10F1 at 115 V single phase LXM05AD10M2 at 230 V single phase LXM05AD10M3X at 230 V 3 phases LXM05AD14N4 at 400/480 V 3 phases LXM05BD10F1 at 115 V single phase LXM05BD10M2 at 230 V single phase LXM05BD10M3X at 230 V 3 phases LXM05BD14N4 at 400/480 V 3 phases LXM05CD10F1 at 115 V single phase LXM05CD10M2 at 230 V single phase LXM05CD10M3X at 230 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	16384 points/turn
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Nominal torque	0.64 N.m for LXM05AD10M3X 0.64 N.m for LXM05AD14N4 0.64 N.m for LXM05BD10M3X 0.64 N.m for LXM05BD14N4 0.64 N.m for LXM05CD10M3X 0.64 N.m for LXM05CD14N4 0.7 N.m for LXM05AD10M2 0.7 N.m for LXM05BD10M2 0.7 N.m for LXM05CD10M2 0.7 N.m for LXM05CU70M2 0.73 N.m for LXM05AD10F1 0.73 N.m for LXM05BD10F1 0.73 N.m for LXM05CD10F1
Number of poles	10
Maximum radial force Fr	130 N at 1000 rpm 86 N at 6000 rpm 87 N at 5000 rpm 89 N at 4000 rpm 91 N at 3000 rpm 96 N at 2000 rpm

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Maximum current Irms	6 A for LXM05AD10F1 6 A for LXM05AD10M2 6 A for LXM05AD10M3X 6 A for LXM05BD10F1 6 A for LXM05BD10M2 6 A for LXM05BD10M3X 6 A for LXM05CD10F1 6 A for LXM05CD10M2 6 A for LXM05CD10M3X 4.3 A for LXM05CU70M2 7.5 A for LXM05AD14N4 7.5 A for LXM05BD14N4 7.5 A for LXM05CD14N4
Torque constant	0.38 N.m/A at 120 °C
Back emf constant	24.3 V/krpm at 120 °C
Rotor inertia	0.26 kg.cm² with brake 0.26 kg.cm² without brake

Stator resistance	6.7 Ohm
Stator inductance	13.6 mH
Stator electrical time constant	2 ms
Maximum axial force Fa	0.2 x Fr
Net weight	1.4 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