Product datasheet

Specifications

AC servo motors BRH - 1.3 N.m - 1500 rpm - keyed shaft - with brake - IP56

BRH0573P31F1A

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	1.05 N.m
Peak stall torque	2.43 N.m for LXM05AD10M2 2.43 N.m for LXM05AD10M3X 2.43 N.m for LXM05BD10M2 2.43 N.m for LXM05BD10M3X 2.43 N.m for LXM05CD10M2 2.43 N.m for LXM05CD10M3X 3 N.m for LXM05AD14N4 3 N.m for LXM05BD14N4 3 N.m for LXM05CD14N4 3.9 N.m for LXM05AD17F1 3.9 N.m for LXM05BD17F1 3.9 N.m for LXM05CD17F1
Nominal output power	160 W for LXM05AD17F1 160 W for LXM05BD17F1 160 W for LXM05CD17F1 430 W for LXM05AD10M2 430 W for LXM05AD10M3X 430 W for LXM05BD10M2 430 W for LXM05BD10M3X 430 W for LXM05CD10M2 430 W for LXM05CD10M3X 550 W for LXM05AD14N4 550 W for LXM05BD14N4 550 W for LXM05CD14N4
Nominal speed	1500 rpm for LXM05AD17F1 1500 rpm for LXM05BD17F1 1500 rpm for LXM05CD17F1 4500 rpm for LXM05AD10M2 4500 rpm for LXM05AD10M3X 4500 rpm for LXM05BD10M2 4500 rpm for LXM05BD10M3X 4500 rpm for LXM05CD10M2 4500 rpm for LXM05CD10M3X 6000 rpm for LXM05AD14N4 6000 rpm for LXM05BD14N4 6000 rpm for LXM05CD14N4
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD10M2 at 230 V single phase LXM05AD10M3X at 230 V 3 phases LXM05AD14N4 at 400/480 V 3 phases LXM05AD17F1 at 115 V single phase LXM05BD10M2 at 230 V single phase LXM05BD10M3X at 230 V 3 phases LXM05BD14N4 at 400/480 V 3 phases LXM05BD17F1 at 115 V single phase LXM05CD10M2 at 230 V single phase LXM05CD10M3X at 230 V 3 phases LXM05CD14N4 at 400/480 V 3 phases LXM05CD17F1 at 115 V single phase
Shaft end	Keyed

IP degree of protection	IP56
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	0.87 N.m for LXM05AD14N4 0.87 N.m for LXM05BD14N4 0.87 N.m for LXM05CD14N4 0.91 N.m for LXM05AD10M2 0.91 N.m for LXM05AD10M3X 0.91 N.m for LXM05BD10M2 0.91 N.m for LXM05BD10M3X 0.91 N.m for LXM05CD10M2 0.91 N.m for LXM05CD10M3X 1 N.m for LXM05AD17F1 1 N.m for LXM05BD17F1 1 N.m for LXM05CD17F1
Number of poles	10
Maximum radial force Fr	100 N at 3000 rpm 106 N at 2000 rpm 143 N at 1000 rpm 94 N at 6000 rpm 96 N at 5000 rpm 98 N at 4000 rpm

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Maximum current Irms	10 A for LXM05AD14N4 10 A for LXM05AD17F1 10 A for LXM05BD14N4 10 A for LXM05BD17F1 10 A for LXM05CD14N4 10 A for LXM05CD17F1 7 A for LXM05AD10M2 7 A for LXM05AD10M3X 7 A for LXM05BD10M2 7 A for LXM05BD10M3X 7 A for LXM05CD10M2 7 A for LXM05CD10M3X
Torque constant	0.42 N.m/A at 120 °C
Back emf constant	27.2 V/krpm at 120 °C
Rotor inertia	0.34 kg.cm² with brake 0.34 kg.cm² without brake
Stator resistance	5.2 Ohm
Stator inductance	11 mH
Maximum axial force Fa	0.2 x Fr
Net weight	1.7 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**