Product data sheet
Characteristics

BRH0572P02A1A
AC servo motors BRH - 1.05 N.m - 4500 rpm - untapped shaft - without brake- IP41

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 LXM05BD10F1 120 W for LXM05CD10F1 120 W for LXM05AD10F1 220 W for LXM05BD10M2 220 W for LXM05CU70M2 220 W for LXM05CD10M2 220 W for LXM05AD10M2 400 W for LXM05BD10M3X 400 W for LXM05BD14N4 400 W for LXM05CD10M3X 400 W for LXM05CD14N4 400 W for LXM05AD10M3X 400 W for LXM05AD14N4
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 LXM05CU70M2 3000 rpm for LXM05CD10M2 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	Multiturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns

Holding brake	Without
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	10

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
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 LXM05CU70M2 0.7 N.m for LXM05CD10M2 0.73 N.m for LXM05AD10F1 0.73 N.m for LXM05BD10F1 0.73 N.m for LXM05CD10F1
Maximum current Irms	4.3 A for LXM05CU70M2 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 7.5 A for LXM05CD14N4 7.5 A for LXM05BD14N4 7.5 A for LXM05AD14N4
Torque constant	0.38 N.m/A rms at 120 °C
Back emf constant	24.3 V rms/krpm at 120 °C
Rotor inertia	0.26 kg.cm² without brake 0.26 kg.cm² with brake
Stator resistance	6.7 Ohm
Stator inductance	13.6 mH
Stator electrical time constant	2 ms
Maximum radial force Fr	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 130 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	1.4 kg

Environment

RoHS EUR conformity date	4Q2009
RoHS EUR status	Will be compliant