

# BRH0573P31A1A

AC servo motors BRH - 1.3 N.m - 1500 rpm -  
keyed shaft - without brake - IP56

## 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 LXM05BD17F1 160 W for LXM05CD17F1 160 W for LXM05AD17F1 430 W for LXM05BD10M2 430 W for LXM05BD10M3X 430 W for LXM05CD10M2 430 W for LXM05CD10M3X 430 W for LXM05AD10M2 430 W for LXM05AD10M3X 550 W for LXM05BD14N4 550 W for LXM05CD14N4 550 W for LXM05AD14N4
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
Encoder feedback resolution	131072 points/turn
Holding brake	Without
Mounting support	International standard flange

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Electrical connection	Straight connectors
Number of poles	10

## Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
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
Maximum current I <sub>rms</sub>	7 A for LXM05AD10M2 7 A for LXM05AD10M3X 7 A for LXM05BD10M2 7 A for LXM05BD10M3X 7 A for LXM05CD10M2 7 A for LXM05CD10M3X 10 A for LXM05AD14N4 10 A for LXM05AD17F1 10 A for LXM05BD14N4 10 A for LXM05BD17F1 10 A for LXM05CD14N4 10 A for LXM05CD17F1
Torque constant	0.42 N.m/A rms at 120 °C
Back emf constant	27.2 V rms/krpm at 120 °C
Rotor inertia	0.34 kg.cm <sup>2</sup> without brake 0.34 kg.cm <sup>2</sup> with brake
Stator resistance	5.2 Ohm
Stator inductance	11 mH
Stator electrical time constant	2.1 ms
Maximum radial force Fr	94 N at 6000 rpm 96 N at 5000 rpm 98 N at 4000 rpm 100 N at 3000 rpm 106 N at 2000 rpm 143 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	1.7 kg

## Environment

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