

# BRH1101P21F1A

AC servo motors BRH - 5.2 N.m - 6000 rpm -  
untapped shaft - with brake - IP56

## Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	5.2 N.m
Peak stall torque	13 N.m for LXM05AD34N4 13 N.m for LXM05BD34N4 13 N.m for LXM05CD34N4 14 N.m for LXM05AD28M2 14 N.m for LXM05BD28M2 14 N.m for LXM05CD28M2 16.2 N.m for LXM05AD42M3X 16.2 N.m for LXM05BD42M3X 16.2 N.m for LXM05CD42M3X
Nominal output power	1400 W for LXM05BD28M2 1400 W for LXM05BD42M3X 1400 W for LXM05CD28M2 1400 W for LXM05CD42M3X 1400 W for LXM05AD28M2 1400 W for LXM05AD42M3X 1900 W for LXM05CD34N4 1900 W for LXM05AD34N4 1900 W for LXM05BD34N4
Nominal speed	3000 rpm for LXM05AD28M2 3000 rpm for LXM05AD42M3X 3000 rpm for LXM05BD28M2 3000 rpm for LXM05BD42M3X 3000 rpm for LXM05CD28M2 3000 rpm for LXM05CD42M3X 4500 rpm for LXM05AD34N4 4500 rpm for LXM05BD34N4 4500 rpm for LXM05CD34N4
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases LXM05CD42M3X at 230 V 3 phases
Shaft end	Untapped
IP degree of protection	IP56
Encoder type	Single turn SinCos Hiperface
Encoder feedback resolution	131072 points/turn
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	10

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## Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Nominal torque	4.04 N.m for LXM05AD34N4 4.04 N.m for LXM05BD34N4 4.04 N.m for LXM05CD34N4 4.5 N.m for LXM05AD28M2 4.5 N.m for LXM05AD42M3X 4.5 N.m for LXM05BD28M2 4.5 N.m for LXM05BD42M3X 4.5 N.m for LXM05CD28M2 4.5 N.m for LXM05CD42M3X
Maximum current Irms	18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28M2 20 A for LXM05BD28M2 20 A for LXM05CD28M2 30 A for LXM05AD42M3X 30 A for LXM05BD42M3X 30 A for LXM05CD42M3X
Torque constant	0.83 N.m/A rms at 120 °C
Back emf constant	54.2 V rms/krpm at 120 °C
Rotor inertia	4.5 kg.cm <sup>2</sup> without brake 5.8 kg.cm <sup>2</sup> with brake
Stator resistance	1.2 Ohm
Stator inductance	8.1 mH
Stator electrical time constant	6.5 ms
Maximum radial force Fr	629 N at 6000 rpm 655 N at 5000 rpm 688 N at 4000 rpm 697 N at 3000 rpm 709 N at 2000 rpm 729 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	4.9 kg

## Environment

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