

# BRH0574P21F1A

AC servo motors BRH - 1.86 N.m - 6000 rpm -  
untapped shaft - with brake - IP56

## Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	1.3 N.m
Peak stall torque	4.73 N.m for LXM05AD17F1 4.73 N.m for LXM05AD17M2 4.73 N.m for LXM05AD17M3X 4.73 N.m for LXM05BD17F1 4.73 N.m for LXM05BD17M2 4.73 N.m for LXM05BD17M3X 4.73 N.m for LXM05CD17F1 4.73 N.m for LXM05CD17M2 4.73 N.m for LXM05CD17M3X 4.9 N.m for LXM05AD22N4 4.9 N.m for LXM05BD22N4 4.9 N.m for LXM05CD22N4
Nominal output power	190 W for LXM05BD17F1 190 W for LXM05CD17F1 190 W for LXM05AD17F1 510 W for LXM05BD17M2 510 W for LXM05BD17M3X 510 W for LXM05CD17M2 510 W for LXM05CD17M3X 510 W for LXM05AD17M2 510 W for LXM05AD17M3X 630 W for LXM05BD22N4 630 W for LXM05CD22N4 630 W for LXM05AD22N4
Nominal speed	1500 rpm for LXM05AD17F1 1500 rpm for LXM05BD17F1 1500 rpm for LXM05CD17F1 4500 rpm for LXM05AD17M2 4500 rpm for LXM05AD17M3X 4500 rpm for LXM05BD17M2 4500 rpm for LXM05BD17M3X 4500 rpm for LXM05CD17M2 4500 rpm for LXM05CD17M3X 6000 rpm for LXM05AD22N4 6000 rpm for LXM05BD22N4 6000 rpm for LXM05CD22N4
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD17F1 at 115 V single phase LXM05AD17M2 at 230 V single phase LXM05AD17M3X at 230 V 3 phases LXM05AD22N4 at 400/480 V 3 phases LXM05BD17F1 at 115 V single phase LXM05BD17M2 at 230 V single phase LXM05BD17M3X at 230 V 3 phases LXM05BD22N4 at 400/480 V 3 phases LXM05CD17F1 at 115 V single phase LXM05CD17M2 at 230 V single phase LXM05CD17M3X at 230 V 3 phases LXM05CD22N4 at 400/480 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

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Electrical connection	Straight connectors
Number of poles	10

## Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Nominal torque	1 N.m for LXM05AD22N4 1 N.m for LXM05BD22N4 1 N.m for LXM05CD22N4 1.08 N.m for LXM05AD17M2 1.08 N.m for LXM05AD17M3X 1.08 N.m for LXM05BD17M2 1.08 N.m for LXM05BD17M3X 1.08 N.m for LXM05CD17M2 1.08 N.m for LXM05CD17M3X 1.22 N.m for LXM05AD17F1 1.22 N.m for LXM05BD17F1 1.22 N.m for LXM05CD17F1
Maximum current I <sub>rms</sub>	11 A for LXM05AD17F1 11 A for LXM05AD17M2 11 A for LXM05AD17M3X 11 A for LXM05BD17F1 11 A for LXM05BD17M2 11 A for LXM05BD17M3X 11 A for LXM05CD17F1 11 A for LXM05CD17M2 11 A for LXM05CD17M3X 11.35 A for LXM05CD22N4 11.35 A for LXM05BD22N4 11.35 A for LXM05AD22N4
Torque constant	0.46 N.m/A rms at 120 °C
Back emf constant	29.3 V rms/krpm at 120 °C
Rotor inertia	0.42 kg.cm <sup>2</sup> without brake 0.42 kg.cm <sup>2</sup> with brake
Stator resistance	4.3 Ohm
Stator inductance	9 mH
Stator electrical time constant	2.1 ms
Maximum radial force Fr	100 N at 6000 rpm 101 N at 5000 rpm 103 N at 4000 rpm 106 N at 3000 rpm 112 N at 2000 rpm 152 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	2 kg

## Environment

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