

# BRH0852M20F1A

AC servo motors BRH - 4.8 N.m - 6000 rpm -  
untapped shaft - with brake - IP56

## Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	3.1 N.m
Peak stall torque	7.81 N.m for LXM05AD17M2 7.81 N.m for LXM05AD17M3X 7.81 N.m for LXM05BD17M2 7.81 N.m for LXM05BD17M3X 7.81 N.m for LXM05CD17M2 7.81 N.m for LXM05CD17M3X 9.51 N.m for LXM05AD22N4 9.51 N.m for LXM05BD22N4 9.51 N.m for LXM05CD22N4
Nominal output power	770 W for LXM05BD17M3X 770 W for LXM05CD17M2 770 W for LXM05CD17M3X 770 W for LXM05AD17M2 770 W for LXM05AD17M3X 770 W for LXM05BD17M2 1150 W for LXM05BD22N4 1150 W for LXM05CD22N4 1150 W for LXM05AD22N4
Nominal speed	3000 rpm for LXM05AD17M2 3000 rpm for LXM05AD17M3X 3000 rpm for LXM05BD17M2 3000 rpm for LXM05BD17M3X 3000 rpm for LXM05CD17M2 3000 rpm for LXM05CD17M3X 6000 rpm for LXM05AD22N4 6000 rpm for LXM05BD22N4 6000 rpm for LXM05CD22N4
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD17M2 at 230 V single phase LXM05AD17M3X at 230 V 3 phases LXM05AD22N4 at 400/480 V 3 phases LXM05BD17M2 at 230 V single phase LXM05BD17M3X at 230 V 3 phases LXM05BD22N4 at 400/480 V 3 phases 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	16384 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	2.45 N.m for LXM05AD17M2 2.45 N.m for LXM05AD17M3X 2.45 N.m for LXM05BD17M2 2.45 N.m for LXM05BD17M3X 2.45 N.m for LXM05CD17M2 2.45 N.m for LXM05CD17M3X 11 N.m for LXM05AD22N4 11 N.m for LXM05BD22N4 11 N.m for LXM05CD22N4
Maximum current Irms	11 A for LXM05AD17M2 11 A for LXM05AD17M3X 11 A for LXM05BD17M2 11 A for LXM05BD17M3X 11 A for LXM05CD17M2 11 A for LXM05CD17M3X 14 A for LXM05AD22N4 14 A for LXM05BD22N4 14 A for LXM05CD22N4
Torque constant	0.75 N.m/A rms at 120 °C
Back emf constant	49.2 V rms/krpm at 120 °C
Rotor inertia	2 kg.cm <sup>2</sup> without brake 2.53 kg.cm <sup>2</sup> with brake
Stator resistance	2.5 Ohm
Stator inductance	9.5 mH
Stator electrical time constant	3.8 ms
Maximum radial force Fr	203 N at 6000 rpm 207 N at 5000 rpm 213 N at 4000 rpm 219 N at 3000 rpm 226 N at 2000 rpm 265 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	3.3 kg

## Environment

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