

BRH0852P31F1A

AC servo motors BRH - 5.2 N.m - 6000 rpm -
keyed 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	7.95 N.m for LXM05AD34N4 7.95 N.m for LXM05BD34N4 7.95 N.m for LXM05CD34N4 8.7 N.m for LXM05AD28F1 8.7 N.m for LXM05AD28M2 8.7 N.m for LXM05BD28F1 8.7 N.m for LXM05BD28M2 8.7 N.m for LXM05CD28F1 8.7 N.m for LXM05CD28M2 10.8 N.m for LXM05AD42M3X 10.8 N.m for LXM05BD42M3X 10.8 N.m for LXM05CD42M3X
Nominal output power	440 W for LXM05BD28F1 440 W for LXM05CD28F1 440 W for LXM05AD28F1 1000 W for LXM05BD28M2 1000 W for LXM05BD42M3X 1000 W for LXM05CD28M2 1000 W for LXM05CD42M3X 1000 W for LXM05AD28M2 1000 W for LXM05AD42M3X 1150 W for LXM05BD34N4 1150 W for LXM05CD34N4 1150 W for LXM05AD34N4
Nominal speed	1500 rpm for LXM05AD28F1 1500 rpm for LXM05BD28F1 1500 rpm for LXM05CD28F1 4500 rpm for LXM05AD28M2 4500 rpm for LXM05AD42M3X 4500 rpm for LXM05BD28M2 4500 rpm for LXM05BD42M3X 4500 rpm for LXM05CD28M2 4500 rpm for LXM05CD42M3X 6000 rpm for LXM05AD34N4 6000 rpm for LXM05BD34N4 6000 rpm for LXM05CD34N4
Maximum mechanical speed	6000 rpm
Product compatibility	LXM05AD28F1 at 115 V single phase LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05BD28F1 at 115 V single phase LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases LXM05CD28F1 at 115 V single phase LXM05CD28M2 at 230 V single phase LXM05CD34N4 at 400/480 V 3 phases LXM05CD42M3X at 230 V 3 phases
Shaft end	Keyed
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	1.8 N.m for LXM05AD34N4 1.8 N.m for LXM05BD34N4 1.8 N.m for LXM05CD34N4 2.13 N.m for LXM05AD28M2 2.13 N.m for LXM05AD42M3X 2.13 N.m for LXM05BD28M2 2.13 N.m for LXM05BD42M3X 2.13 N.m for LXM05CD28M2 2.13 N.m for LXM05CD42M3X 2.78 N.m for LXM05AD28F1 2.78 N.m for LXM05BD28F1 2.78 N.m for LXM05CD28F1
Maximum current I _{rms}	18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28F1 20 A for LXM05AD28M2 20 A for LXM05BD28F1 20 A for LXM05BD28M2 20 A for LXM05CD28F1 20 A for LXM05CD28M2 26.4 A for LXM05CD42M3X 26.4 A for LXM05BD42M3X 26.4 A for LXM05AD42M3X
Torque constant	0.47 N.m/A rms at 120 °C
Back emf constant	30.7 V rms/krpm at 120 °C
Rotor inertia	2 kg.cm ² without brake 2.53 kg.cm ² with brake
Stator resistance	1 Ohm
Stator inductance	3.7 mH
Stator electrical time constant	3.7 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