

BRH0571P31F1A

AC servo motors BRH - 0.46 N.m - 6000 rpm -
keyed shaft - with brake - IP56

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	0.46 N.m
Peak stall torque	1.26 N.m for LXM05CU70M2 1.39 N.m for LXM05AD14N4 1.39 N.m for LXM05BD14N4 1.39 N.m for LXM05CD14N4
Nominal output power	135 W for LXM05CU70M2 260 W for LXM05AD14N4 260 W for LXM05BD14N4 260 W for LXM05CD14N4
Nominal speed	3000 rpm for LXM05CU70M2 6000 rpm for LXM05AD14N4 6000 rpm for LXM05BD14N4 6000 rpm for LXM05CD14N4
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD14N4 at 400/480 V 3 phases LXM05BD14N4 at 400/480 V 3 phases LXM05CD14N4 at 400/480 V 3 phases LXM05CU70M2 at 230 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	With
Mounting support	International standard flange
Electrical connection	Straight connectors
Number of poles	10

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Nominal torque	0.41 N.m for LXM05AD14N4 0.41 N.m for LXM05BD14N4 0.41 N.m for LXM05CD14N4 0.43 N.m for LXM05CU70M2
Maximum current Irms	4.3 A for LXM05CU70M2 5.4 A for LXM05CD14N4 5.4 A for LXM05BD14N4 5.4 A for LXM05AD14N4
Torque constant	0.34 N.m/A rms at 120 °C
Back emf constant	20.9 V rms/krpm at 120 °C
Rotor inertia	0.18 kg.cm ² with brake 0.18 kg.cm ² without brake
Stator resistance	12.7 Ohm
Stator inductance	24.1 mH
Stator electrical time constant	1.9 ms

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Maximum radial force Fr	72 N at 6000 rpm 73 N at 5000 rpm 74 N at 4000 rpm 76 N at 3000 rpm 81 N at 2000 rpm 109 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Product weight	1.1 kg

Environment

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