

# BRH0571T12F2A

AC servo motors BRH - 0.76 N.m - 1500 rpm -  
keyed shaft - with brake - IP41

## Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	0.46 N.m
Peak stall torque	0.88 N.m for LXM05CU70M2 1.15 N.m for LXM05AD10F1 1.15 N.m for LXM05AD10M2 1.15 N.m for LXM05AD10M3X 1.15 N.m for LXM05BD10F1 1.15 N.m for LXM05BD10M2 1.15 N.m for LXM05BD10M3X 1.15 N.m for LXM05CD10F1 1.15 N.m for LXM05CD10M2 1.15 N.m for LXM05CD10M3X
Nominal output power	135 W for LXM05CD10F1 135 W for LXM05AD10F1 135 W for LXM05BD10F1 260 W for LXM05BD10M2 260 W for LXM05BD10M3X 260 W for LXM05CU70M2 260 W for LXM05CD10M2 260 W for LXM05CD10M3X 260 W for LXM05AD10M2 260 W for LXM05AD10M3X
Nominal speed	3000 rpm for LXM05AD10F1 3000 rpm for LXM05BD10F1 3000 rpm for LXM05CD10F1 6000 rpm for LXM05AD10M2 6000 rpm for LXM05AD10M3X 6000 rpm for LXM05BD10M2 6000 rpm for LXM05BD10M3X 6000 rpm for LXM05CU70M2 6000 rpm for LXM05CD10M2 6000 rpm for LXM05CD10M3X
Maximum mechanical speed	8000 rpm
Product compatibility	LXM05AD10F1 at 115 V single phase LXM05AD10M2 at 230 V single phase LXM05AD10M3X at 230 V 3 phases LXM05BD10F1 at 115 V single phase LXM05BD10M2 at 230 V single phase LXM05BD10M3X at 230 V 3 phases LXM05CD10F1 at 115 V single phase LXM05CD10M2 at 230 V single phase LXM05CD10M3X at 230 V 3 phases LXM05CU70M2 at 230 V single phase
Shaft end	Keyed
IP degree of protection	IP41
Encoder type	Multiturn SinCos Hiperface
Encoder feedback resolution	131072 points/turn x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Number of poles	10

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## Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Nominal torque	0.41 N.m for LXM05AD10M2 0.41 N.m for LXM05AD10M3X 0.41 N.m for LXM05BD10M2 0.41 N.m for LXM05BD10M3X 0.41 N.m for LXM05CU70M2 0.41 N.m for LXM05CD10M2 0.41 N.m for LXM05CD10M3X 0.43 N.m for LXM05AD10F1 0.43 N.m for LXM05BD10F1 0.43 N.m for LXM05CD10F1
Maximum current I <sub>rms</sub>	4.3 A for LXM05CU70M2 6 A for LXM05AD10F1 6 A for LXM05AD10M2 6 A for LXM05AD10M3X 6 A for LXM05BD10F1 6 A for LXM05BD10M2 6 A for LXM05BD10M3X 6 A for LXM05CD10F1 6 A for LXM05CD10M2 6 A for LXM05CD10M3X
Torque constant	0.21 N.m/A rms at 120 °C
Back emf constant	13.1 V rms/krpm at 120 °C
Rotor inertia	0.18 kg.cm <sup>2</sup> with brake 0.18 kg.cm <sup>2</sup> without brake
Stator resistance	5 Ohm
Stator inductance	9.5 mH
Stator electrical time constant	1.9 ms
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