Product data sheet
Characteristics

BRH1101P10A2A
AC servo motors BRH - 5.2 N.m - 6000 rpm - keyed shaft - without brake - IP41



Commercial status
End of Commercialisation :

⚠ End of Commercialisation

Main

Product or component type	Motion servo motors
Component name	BRH
Continuous stall torque	5.2 N.M
Peak stall torque	13 N.M for LXM05AD34N4 13 N.M for LXM05BD34N4 13 N.M for LXM05CD34N4 14 N.M for LXM05AD28M2 14 N.M for LXM05BD28M2 14 N.M for LXM05CD28M2 16.2 N.M for LXM05AD42M3X 16.2 N.M for LXM05BD42M3X 16.2 N.M for LXM05CD42M3X
Nominal output power	1400 W for LXM05AD28M2 1400 W for LXM05AD42M3X 1400 W for LXM05BD28M2 1400 W for LXM05BD42M3X 1400 W for LXM05CD28M2 1400 W for LXM05CD42M3X 1900 W for LXM05AD34N4 1900 W for LXM05BD34N4 1900 W for LXM05CD34N4
Nominal speed	3000 rpm for LXM05AD28M2 3000 rpm for LXM05AD42M3X 3000 rpm for LXM05BD28M2 3000 rpm for LXM05BD42M3X 3000 rpm for LXM05CD28M2 3000 rpm for LXM05CD42M3X 4500 rpm for LXM05AD34N4 4500 rpm for LXM05BD34N4 4500 rpm for LXM05CD34N4
Maximum mechanical speed	6000 Rpm
Product compatibility	LXM05AD28M2 at 230 V single phase LXM05AD34N4 at 400/480 V 3 phases LXM05AD42M3X at 230 V 3 phases LXM05BD28M2 at 230 V single phase LXM05BD34N4 at 400/480 V 3 phases LXM05BD42M3X at 230 V 3 phases 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	IP41
Encoder type	Single turn SinCos Hiperface
Speed feedback resolution	16384 points/turn
Holding brake	Without

Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors
Nominal torque	4.04 N.M for LXM05AD34N4 4.04 N.M for LXM05BD34N4 4.04 N.M for LXM05CD34N4 4.5 N.M for LXM05AD28M2 4.5 N.M for LXM05AD42M3X 4.5 N.M for LXM05BD28M2 4.5 N.M for LXM05BD42M3X 4.5 N.M for LXM05CD28M2 4.5 N.M for LXM05CD42M3X
Number of poles	10
Maximum radial force Fr	629 N at 6000 rpm 655 N at 5000 rpm 688 N at 4000 rpm 697 N at 3000 rpm 709 N at 2000 rpm 729 N at 1000 rpm

Complementary

Range compatibility	Lexium 05
Switching frequency	8 kHz
Maximum current Irms	18 A for LXM05AD34N4 18 A for LXM05BD34N4 18 A for LXM05CD34N4 20 A for LXM05AD28M2 20 A for LXM05BD28M2 20 A for LXM05CD28M2 30 A for LXM05AD42M3X 30 A for LXM05BD42M3X 30 A for LXM05CD42M3X
Torque constant	0.83 N.M/A at 120 °C
Back emf constant	54.2 V/Krpm at 120 °C
Rotor inertia	4.5 Kg.Cm² without brake 5.8 Kg.Cm² with brake
Stator resistance	1.2 Ohm
Stator inductance	8.1 MH
Stator electrical time constant	6.5 Ms
Maximum axial force Fa	0.2 x Fr
Net weight	4.9 Kg

Offer Sustainability

Sustainable packaging	No

Contractual warranty

Warranty (in months)	18

Product Life Status : End of commercialisation