

Product datasheet

Specifications

Motors



AC servo motor BDH - 0.31 N.m -
8000 rpm - untapped shaft - without
brake - IP54

BDH0402C05A2B

EAN Code: 3389118187399

! Discontinued

Main

Product or component type	AC servo motors
Component name	BDH
Continuous stall torque	0.31 N.m for LXM15LD13M3 3 phases 0.31 N.m for LXM15LD13M3 single phase
Peak stall torque	1.08 N.m for LXM15LD13M3 at 230 V 3 phases 1.08 N.m for LXM15LD13M3 at 230 V single phase
Nominal output power	230 W for LXM15LD13M3 at 230 V 3 phases 230 W for LXM15LD13M3 at 230 V single phase
Nominal torque	0.28 N.m for LXM15LD13M3 at 230 V 3 phases 0.28 N.m for LXM15LD13M3 at 230 V single phase
Nominal speed	8000 rpm for LXM15LD13M3 at 230 V 3 phases 8000 rpm for LXM15LD13M3 at 230 V single phase
Maximum mechanical speed	8000 rpm
Product compatibility	LXM15LD13M3 at 230 V 3 phases LXM15LD13M3 at 230 V single phase
Shaft end	Untapped
IP degree of protection	IP54
Encoder type	2-pole resolver
Speed feedback resolution	65536 points/turn
Holding brake	Without
Mounting support	NEMA flange
Electrical connection	Rotatable right-angled connectors
Number of poles	6

Complementary

Range compatibility	Lexium 15
Maximum current Irms	1.06 A
Torque constant	0.21 N.m/A at 120 °C
Back emf constant	13.3 V/krpm at 120 °C
Stator resistance	12.4 Ohm at 20 °C
Stator inductance	9.1 mH at 20 °C
Stator electrical time constant	0.73 ms at 20 °C

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Maximum radial force Fr	23 N at 8000 rpm
	27 N at 7000 rpm
	30 N at 6000 rpm
	33 N at 5000 rpm
	37 N at 4000 rpm
	40 N at 3000 rpm
	43 N at 2000 rpm
	46 N at 1000 rpm
Maximum axial force Fa	0.3 x Fr
Net weight	0.49 kg



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No