

Product datasheet

Specifications



servo motor BMH - 100 Nm - 3000 rpm - untapped shaft - without brake - IP20/IP65

BMH1904P32A2B

Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	3000 rpm
Continuous stall torque	100 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 100 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Peak stall torque	230 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 230 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal output power	16000 W for LXM32MC10N4 at 40 A, 400 V, three phase 16000 W for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal torque	76.4 N.m for LXM32MC10N4 at 40 A, 400 V, three phase 76.4 N.m for LXM32MC10N4 at 40 A, 480 V, three phase
Nominal speed	2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase 2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase
Shaft end	Keyed
IP degree of protection	IP65 standard IP20 with fan module
Speed feedback resolution	131072 points/turn x 4096 turns
Holding brake	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	40 A
Maximum current Irms	100 A for LXM32MC10N4 100 A
Maximum permanent current	100 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Key width	10 mm

Feedback type	Multiturn SinCos Hiperface
Motor flange size	190 mm
Number of motor stacks	4
Torque constant	2.5 N.m/A at 120 °C
Back emf constant	168 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	276.7 kg.cm²
Stator resistance	0.16 Ohm at 20 °C
Stator inductance	4.74 mH at 20 °C
Stator electrical time constant	29.6 ms at 20 °C
Maximum radial force Fr	3800 N at 1000 rpm 3700 N at 2000 rpm 3600 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Fan
Length	449.5 mm
Centring collar diameter	180 mm
Centring collar depth	4 mm
Number of mounting holes	4
Mounting holes diameter	14 mm
Circle diameter of the mounting holes	215 mm
Net weight	57.4 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	40.0 cm
Package 1 Width	30.0 cm
Package 1 Length	79.5 cm
Package 1 Weight	57.4 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

Recommended replacement(s)