

servo motor BMH, Lexium 32, 18.5Nm, 4000rpm, keyed shaft, with brake, IP54, 16bit encoder

BMH1402P16F2A

Main

Device short name	вмн	
Product or component type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	18.5 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 18.5 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	50.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 50.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	3500 W for LXM32.D72N4 at 24 A, 400 V, three phase 3500 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	12.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 12.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal speed	3000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 3000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase	
Product compatibility	LXM32.D72N4 at 400480 V three phase	
Shaft end	Keyed	
IP degree of protection	IP54 standard	
Speed feedback resolution	32768 points/turn	
Holding brake	With	
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	16.83 A
Continuous power	4.44 W
Maximum current Irms	46.22 A for LXM32.D72N4
Maximum permanent current	57.4 A
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
key width	40 mm
Feedback type	Single turn SinCos Hiperface

Holding torque	18 N.m holding brake	
Motor flange size	140 mm	
Number of motor stacks	2	
Torque constant	1.24 N.m/A at 120 °C	
Back emf constant	70.7 V/krpm at 120 °C	
Number of motor poles	5.0	
Rotor inertia	33.5 kg.cm²	
Stator resistance	0.23 Ohm at 20 °C	
Stator inductance	2.6 mH at 20 °C	
Stator electrical time constant	13 ms at 20 °C	
Maximum radial force Fr	2240 N at 1000 rpm 1780 N at 2000 rpm 1550 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Brake pull-in power	18 W	
type of cooling	Natural convection	
Length	227 mm	
Centring collar diameter	130 mm	
centring collar depth	3.5 mm	
Number of mounting holes	4	
Mounting holes diameter	11 mm	
Circle diameter of the mounting holes	165 mm	
Net weight	14.3 kg	
Sizing reference	BMH1402P	
Network number of phases	3	
Accuracy error [angular]	4.8 °	
Temperature copper hot	135 °C	
Temperature magnet hot	100 °C	
Temperature magnet rt	20 °C	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	60.0 cm
Package 1 Weight	14.6 kg

Contractual warranty

Warranty 18 months



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 >

⊘ Environmental footprint	
Total lifecycle Carbon footprint	3877
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins