

servo motor BMH, Lexium 32, 24Nm, 4000rpm, keyed shaft, without brake, IP54, 16bit encoder, 3 phases

BMH1403P16A2A

Main

Device short name	вмн	
Product or component type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	24 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 24 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	71.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 71.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	4700 W for LXM32.D72N4 at 24 A, 400 V, three phase 4700 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	13.92 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 13.92 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	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	18 A
Continuous power	4.8 W
Maximum current Irms	57.66 A for LXM32.D72N4
Maximum permanent current	62.3 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

Motor flange size	140 mm	
Number of motor stacks	3	
Torque constant	1.3 N.m/A at 120 °C	
Back emf constant	85.9 V/krpm at 120 °C	
Number of motor poles	5.0	
Rotor inertia	47.5 kg.cm²	
Stator resistance	0.22 Ohm at 20 °C	
Stator inductance	2.165 mH at 20 °C	
Stator electrical time constant	13.6 ms at 20 °C	
Maximum radial force Fr	2420 N at 1000 rpm 1920 N at 2000 rpm 1680 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
type of cooling	Natural convection	
Length	232 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	16 kg	
Sizing reference	BMH1403P	
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	20.500 cm
Package 1 Width	27.000 cm
Package 1 Length	60.000 cm
Package 1 Weight	17.576 kg
Unit Type of Package 2	P06
Number of Units in Package 2	12
Package 2 Height	105.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	220.000 kg

Contractual warranty

Warranty

25 Jul 2025

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	5187
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