

# servo motor BMH - 24 Nm - 4000 rpm - untapped shaft - with brake - IP65/IP67

BMH1403P22F2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485208121

### 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	Smooth shaft	
IP degree of protection	IP65 standard IP67 with IP67 kit	
Speed feedback resolution	131072 points/turn x 4096 turns	
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	18 A
Continuous power	4.8 W
Maximum current Irms	62.3 A for LXM32.D72N4
Maximum permanent current	62.3 A
Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm

Feedback type	Multiturn SinCos Hiperface	
Holding torque	23 N.m holding brake	
Motor flange size	140 mm	
Number of motor stacks	3	
Torque constant	1.34 N.m/A at 120 °C	
Back emf constant	85.9 V/krpm at 120 °C	
Number of motor poles	10	
Rotor inertia	50.27 kg.cm²	
Stator resistance	0.22 Ohm at 20 °C	
Stator inductance	3 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	
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Maximum axial force Fa	0.2 x Fr	
Brake pull-in power	19 W	
type of cooling	Natural convection	
Length	267 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	18.5 kg	
Sizing reference	BMH1403P	
Network number of phases	3	
Accuracy error [angular]	1.4 °	
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	26.000 cm
Package 1 Width	20.000 cm
Package 1 Length	60.000 cm
Package 1 Weight	18.530 kg
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Height	75.000 cm
Package 2 Width	80.000 cm

Package 2 Length	60.000 cm
Package 2 Weight	119.180 kg

## **Logistical informations**

Country of origin

DF

## **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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	5196
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	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins