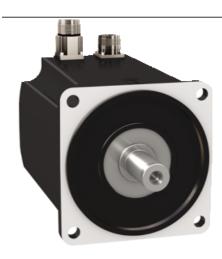
# Product datasheet Characteristics

# BMH1402P02F1A

servo motor BMH - 18.5 Nm - 4000 rpm - untapped shaft - with brake - IP54





#### Main

Product or component type	Servo motor	
Device short name	ВМН	
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	Smooth shaft	
IP degree of protection	IP54 standard	
Speed feedback resolution	131072 points/turn x 4096 turns	
Holding brake	With	
Mounting support	International standard flange	
Electrical connection	Straight connectors	

### Complementary

Lexium 32	
480 V	löi ris
Three phase	nentai
16.83 A	Jocan
4.44 W	ج ه
57.4 A for LXM32.D72N4	
57.4 A	sclair Isolair
	480 V Three phase 16.83 A 4.44 W 57.4 A for LXM32.D72N4

Second shaft	Without second shaft end
Shaft diameter	24 mm
Shaft length	50 mm
Feedback type	Multiturn SinCos Hiperface
Holding torque	18 N.m holding brake
Motor flange size	140 mm
Number of motor stacks	2
Torque constant	1.1 N.m/A at 120 °C
Back emf constant	70.7 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	33.5 kg.cm²
Stator resistance	0.23 Ohm at 20 °C
Stator inductance	3 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
	<u> </u>
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
Product weight	14.3 kg

## Offer Sustainability

Green Premium product	
REACh Declaration	
Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Yes	
Yes	
China RoHS declaration	
Product Environmental Profile	
rity Profile No need of specific recycling operations	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

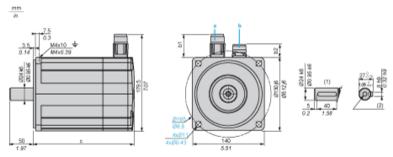
### Contractual warranty

Warranty	18 months

# BMH1402P02F1A

#### Servo Motors Dimensions

### **Example with Straight Connectors**



- a: Power supply for servo motor brake
- b: Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
- (2) For screw M8 x 25 mm/M8 x 0.98 in.

#### Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
39.5	25.5	39.5	39.5	192	227

#### Dimensions in in.

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b	b1	b	b1		
1.55	1.00	1.55	1.55	7.55	8.93

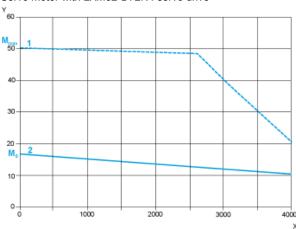
# Product datasheet Performance Curves

# BMH1402P02F1A

# 400 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



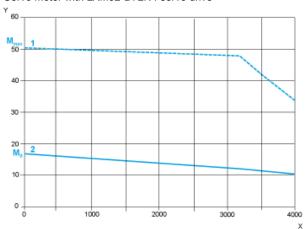
- X Y Speed in rpm Torque in Nm
- Peak torque
- Continuous torque

# BMH1402P02F1A

# 480 V 3-Phase Supply Voltage

### Torque/Speed Curves

Servo motor with LXM32•D72N4 servo drive



- X Y Speed in rpm
- Torque in Nm
- Peak torque
- Continuous torque