## BMH1003P36A1A

servo motor BMH - 8.4 Nm - 6000 rpm - keyed shaft - without brake - IP65/IP67





#### Main Product or component Servo motor type вмн Device short name 6000 rpm Maximum mechanical speed Continuous stall torque 8.4 N.m for LXM32.D30N4 10 A at 400 V three 8.4 N.m for LXM32.D30N4 10 A at 480 V three 25.1 N.m for LXM32.D30N4 10 A at 400 V three Peak stall torque 25.1 N.m for LXM32.D30N4 10 A at 480 V three phase

Nominal output power	2700 W for LXM32.D30N4 10 A at 400 V three phase 2700 W for LXM32.D30N4 10 A at 480 V three phase
Nominal torque	6.2 N.m for LXM32.D30N4 10 A at 400 V three phase 6.2 N.m for LXM32.D30N4 10 A at 480 V three phase
Nominal speed	4000 rpm for LXM32.D30N4 10 A at 400 V three phase 4000 rpm for LXM32.D30N4 10 A at 480 V three phase
Product compatibility	LXM32.D30N4 at 400480 V three phase
Shaft end	Keyed
IP degree of protection	IP65 (standard)

IP67 (with IP67 kit)

32768 points/turn

Straight connectors

International standard flange

Without

# Complementary

Complementary		
Range compatibility	Lexium 32	
[Us] rated supply voltage	480 V	
Network number of phases	Three phase	
Continuous stall current	7.69 A	
Continuous power	3.3 W	
Maximum current Irms	29.1 A for LXM32.D30N4	
Maximum permanent current	29.1 A	
Second shaft	Without second shaft end	
Shaft diameter	19 mm	
Shaft length	40 mm	
Key width	30 mm	
Feedback type	Single turn SinCos Hiperface	
Motor flange size	100 mm	
Number of motor stacks	3	
Torque constant	1 N.m/A at 120 °C	

Speed feedback resolu-

Holding brake

Mounting support

Electrical connection

Back emf constant	63.5 V/krpm at 120 °C		
Number of motor poles	10		
Rotor inertia	9.37 kg.cm²		
Stator resistance	0.63 Ohm at 20 °C		
Stator inductance	4 mH at 20 °C		
Stator electrical time constant	6.3 ms at 20 °C		
Maximum radial force Fr	1050 N at 1000 rpm 830 N at 2000 rpm 730 N at 3000 rpm 660 N at 4000 rpm 610 N at 5000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	192.6 mm		
Centring collar diameter	95 mm		
Centring collar depth	3.5 mm		
Number of mounting holes	4		
Mounting holes diameter	9 mm		
Circle diameter of the mounting holes	115 mm		
Product weight	6.5 kg		

## Offer Sustainability

Sustainable offer status	Green Premium product		
RoHS (date code: YYWW)	Compliant - since 0936 - Schneider Electric declaration of conformity		
REACh	Reference not containing SVHC above the threshold		
Product environmental profile	Available 🔁 Download Product Environmental		
Product end of life instructions	Need no specific recycling operations		

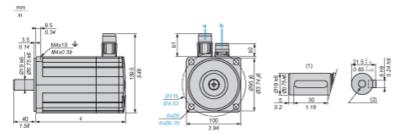


# Product data sheet **Dimensions Drawings**

# BMH1003P36A1A

## Servo Motors Dimensions

## **Example with Straight Connectors**



- Power supply for servo motor brake
- Power supply for servo motor encoder
- (1) Shaft end, keyed slot (optional)
  (2) For screw M6 x 21 mm/M6 x 0.83 in.

#### Dimensions in mm

Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)	
	b1	b2	b1	b2		
	39.5	25.5	39.5	39.5	192	234

#### Dimensions in in.

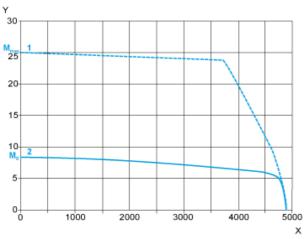
Straight connectors		Rotatable angled connectors		c (without brake)	c (with brake)
b1	b2	b1	b2		
1.55	1.00	1.55	1.55	7.55	9.21

## BMH1003P36A1A

### 400 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive

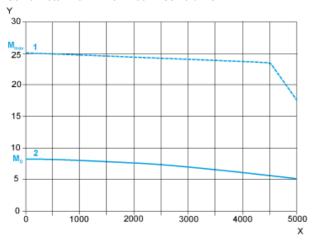


- Speed in rpm
- X Y Torque in Nm
- Peak torque
- Continuous torque

## 480 V 3-Phase Supply Voltage

## Torque/Speed Curves

Servo motor with LXM32•D30N4 servo drive



- Speed in rpm
- Torque in Nm
- Peak torque 1
- Continuous torque