

# servo motor BMH - 6.2 Nm - 6000 rpm - untapped shaft - with brake - IP65/IP67

BMH1002P22F2A

! Discontinued on: 9 Feb 2023

① Discontinued

EAN Code: 3606485196015

#### Main

Device short name	вмн			
Product or component type	Servo motor			
Maximum mechanical speed	6000 rpm			
Continuous stall torque	6.2 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 6.2 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Peak stall torque	18.4 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 18.4 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal output power	1600 W for LXM32.D18N4 at 6 A, 400 V, three phase 1600 W for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal torque	3.9 N.m for LXM32.D18N4 at 6 A, 400 V, three phase 3.9 N.m for LXM32.D18N4 at 6 A, 480 V, three phase			
Nominal speed	4000 rpm for LXM32.D18N4 at 6 A, 400 V, three phase 4000 rpm for LXM32.D18N4 at 6 A, 480 V, three phase			
Product compatibility	LXM32.D18N4 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	5.04 A
Continuous power	2.36 W
Maximum current Irms	18 A for LXM32.D18N4
Maximum permanent current	18.23 A
Second shaft	Without second shaft end
Shaft diameter	19 mm
Shaft length	40 mm

Feedback type	Multiturn SinCos Hiperface			
Holding torque	5.5 N.m holding brake			
Motor flange size	100 mm			
Number of motor stacks	2			
Torque constant	1.2 N.m/A at 120 °C			
Back emf constant	77 V/krpm at 120 °C			
Number of motor poles	10			
Rotor inertia	6.77 kg.cm²			
Stator resistance	1.51 Ohm at 20 °C			
Stator inductance	7.5 mH at 20 °C			
Stator electrical time constant	5 ms at 20 °C			
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm 580 N at 5000 rpm			
Maximum axial force Fa	0.2 x Fr			
Brake pull-in power	12 W			
type of cooling	Natural convection			
Length	202.3 mm			
Centring collar diameter				
	95 mm			
centring collar depth	95 mm 3.5 mm			
centring collar depth  Number of mounting holes				
	3.5 mm			
Number of mounting holes	3.5 mm 4			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting	3.5 mm 4 9 mm			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes	3.5 mm  4  9 mm  115 mm			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net weight	3.5 mm  4  9 mm  115 mm  6.4 kg			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net weight  Sizing reference	3.5 mm  4  9 mm  115 mm  6.4 kg  BMH1002P			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net weight  Sizing reference  Network number of phases	3.5 mm  4  9 mm  115 mm  6.4 kg  BMH1002P			
Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net weight  Sizing reference  Network number of phases  Accuracy error [angular]	3.5 mm  4  9 mm  115 mm  6.4 kg  BMH1002P  3  1.4 °			

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19.500 cm
Package 1 Width	22.000 cm
Package 1 Length	40.000 cm
Package 1 Weight	6.960 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm

Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	38 440 kg

# **Logistical informations**

Country of origin

# **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)	1781
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

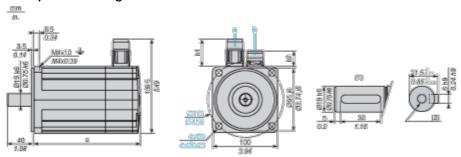
○ Repack and remanufacture					
Circularity Profile	No need of specific recycling operations				
Take-back	No				
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				

# BMH1002P22F2A

#### **Dimensions Drawings**

#### **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 M6 x 21 mm/M6 x 0.83 in.

#### Dimensions in mm

Straight o	connectors Rotatable angled connectors		a (with a standard)	a (with handsa)	
b1	b2	b1	b2	c (without brake)	c (with brake)
39.5	25.5	39.5	39.5	160	202

#### Dimensions in in.

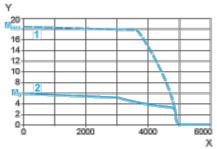
Straight c	onnectors	Rotatable angled connectors		c (without brake)	(مالمسط طلاندر)	
b1	b2	b1	b2	c (without brake)	c (with brake)	
1.55	1.00	1.55	1.55	6.29	7.95	

#### Performance Curves

### 400 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D18N4 servo drive

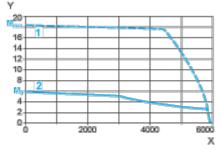


- X Speed in rpm
- Y Torque in Nm
- 1 Peak torque
- 2 Continuous torque

#### 480 V 3-Phase Supply Voltage

#### **Torque/Speed Curves**

Servo motor with LXM32•D18N4 servo drive



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