

servo motor BMH, Lexium 32, 10.3Nm, 4000rpm, keyed shaft, with brake, IP54, 16 multiturn encoder

BMH1401P17F2A

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

Device short name	ВМН	
Product or Component Type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	91.2 lbf.in (10.3 N.m) LXM32.D30M2 10 A, 230 V, single phase 91.2 lbf.in (10.3 N.m) LXM32.D30N4 10 A, 400 V, three phase 91.2 lbf.in (10.3 N.m) LXM32.D30N4 10 A, 480 V, three phase	
Peak stall torque	272.6 lbf.in (30.8 N.m) LXM32.D30M2 10 A, 230 V, single phase 272.6 lbf.in (30.8 N.m) LXM32.D30N4 10 A, 400 V, three phase 272.6 lbf.in (30.8 N.m) LXM32.D30N4 10 A, 480 V, three phase	
Nominal output power	1450 W LXM32.D30M2 10 A, 230 V, single phase 2400 W LXM32.D30N4 10 A, 400 V, three phase 2400 W LXM32.D30N4 10 A, 480 V, three phase	
Nominal torque	61.07 lbf.in (6.9 N.m) LXM32.D30M2 10 A, 230 V, single phase 68.2 lbf.in (7.7 N.m) LXM32.D30N4 10 A, 400 V, three phase 68.2 lbf.in (7.7 N.m) LXM32.D30N4 10 A, 480 V, three phase	
Nominal speed	2000 rpm LXM32.D30M2 10 A, 230 V, single phase 3000 rpm LXM32.D30N4 10 A, 400 V, three phase 3000 rpm LXM32.D30N4 10 A, 480 V, three phase	
Product compatibility	LXM32.D30M2 230 V single phase LXM32.D30N4 400480 V three phase	
Shaft end	Keyed	
IP Degree of Protection	IP54 standard	
Speed feedback resolution	32768 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
Phase	Three phase
Continuous stall current	8.58 A
Continuous power	2.85 W
Maximum current Irms	29.8 A LXM32.D30M2 29.8 A LXM32.D30N4
Maximum permanent current	29.8 A
Second shaft	Without second shaft end

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Shaft diameter	0.9 in (24 mm)		
Shaft length	2.0 in (50 mm)		
key width	1.6 in (40 mm)		
Feedback type	Multiturn SinCos Hiperface		
Holding torque	159.3 lbf.in (18 N.m) holding brake		
Motor flange size	5.5 in (140 mm)		
Number of motor stacks	1		
Torque constant	1.16 N.m/A 248 °F (120 °C)		
Back emf constant	77.4 V/krpm 248 °F (120 °C)		
Number of motor poles	5.0		
Rotor inertia	17.96 kg.cm <sup>2</sup>		
Stator resistance	0.69 Ohm 68 °F (20 °C)		
Stator inductance	4.66 mH 68 °F (20 °C)		
Stator electrical time constant	9.7 ms 68 °F (20 °C)		
Maximum radial force Fr	1930 N 1000 rpm 1530 N 2000 rpm		
	1340 N 3000 rpm		
Maximum axial force Fa	0.2 x Fr		
Maximum axial force Fa  Brake pull-in power	·		
	0.2 x Fr		
Brake pull-in power	0.2 x Fr 18 W		
Brake pull-in power	0.2 x Fr  18 W  Natural convection		
Brake pull-in power type of cooling Length	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)		
Brake pull-in power type of cooling Length Centring collar diameter	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)		
Brake pull-in power type of cooling  Length  Centring collar diameter centring collar depth	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)		
Brake pull-in power type of cooling Length Centring collar diameter centring collar depth Number of mounting holes	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)		
Brake pull-in power  type of cooling  Length  Centring collar diameter  centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)		
Brake pull-in power  type of cooling  Length  Centring collar diameter  centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)  6.5 in (165 mm)		
Brake pull-in power type of cooling  Length  Centring collar diameter centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net Weight	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)  6.5 in (165 mm)  22.7 lb(US) (10.3 kg)		
Brake pull-in power type of cooling  Length  Centring collar diameter centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net Weight  Sizing reference	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)  6.5 in (165 mm)  22.7 lb(US) (10.3 kg)  BMH1401P		
Brake pull-in power type of cooling  Length  Centring collar diameter centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net Weight  Sizing reference  Network number of phases	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)  6.5 in (165 mm)  22.7 lb(US) (10.3 kg)  BMH1401P  3		
Brake pull-in power  type of cooling  Length  Centring collar diameter  centring collar depth  Number of mounting holes  Mounting holes diameter  Circle diameter of the mounting holes  Net Weight  Sizing reference  Network number of phases  Accuracy error [angular]	0.2 x Fr  18 W  Natural convection  7.4 in (187 mm)  5.1 in (130 mm)  0.1 in (3.5 mm)  4  0.4 in (11 mm)  6.5 in (165 mm)  22.7 lb(US) (10.3 kg)  BMH1401P  3  4.8 °		

## Ordering and shipping details

	- · ·
Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485198682
Returnability	No
Country of origin	DE

# **Packing Units**

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	10.24 in (26.0 cm)
Package 1 Width	7.87 in (20.0 cm)
Package 1 Length	23.62 in (60.0 cm)
Package weight(Lbs)	23.4 lb(US) (10.6 kg)

## **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 CO2 eq, Total Life cycle)	2667
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
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

### **Use Again**

○ Repack and remanufacture	
Circularity Profile	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.