

# Product data sheet

Specifications



servo motor BMH, Lexium 32,  
10.3Nm, 4000rpm, keyed shaft,  
without brake, IP54, 16bit encoder

BMH1401P16A2A

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

## Main

Device short name	BMH
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 400...480 V three phase
Shaft end	Keyed
IP Degree of Protection	IP54 standard
Speed feedback resolution	32768 points/turn
Holding brake	Without
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	Single turn SinCos Hiperface
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	16.46 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
type of cooling	Natural convection
Length	6.0 in (152 mm)
Centring collar diameter	5.1 in (130 mm)
centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net Weight	17.6 lb(US) (8 kg)
Sizing reference	BMH1401P
Network number of phases	3
Accuracy error [angular]	4.8 °
Temperature copper hot	275 °F (135 °C)
Temperature magnet hot	212 °F (100 °C)
Temperature magnet rt	68 °F (20 °C)

## Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606485198484
Returnability	No
Country of origin	DE

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

<b>Package 1 Height</b>	10.24 in (26.000 cm)
<b>Package 1 Width</b>	7.87 in (20.000 cm)
<b>Package 1 Length</b>	23.62 in (60.000 cm)
<b>Package weight(Lbs)</b>	21.396 lb(US) (9.705 kg)
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	12
<b>Package 2 Height</b>	41.34 in (105.000 cm)
<b>Package 2 Width</b>	23.62 in (60.000 cm)
<b>Package 2 Length</b>	31.50 in (80.000 cm)
<b>Package 2 Weight</b>	275.490 lb(US) (124.960 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

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) 2662

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

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](http://www.P65Warnings.ca.gov)**

PVC free Yes

## Use Again

### Repack and remanufacture

Circularity Profile No need of specific recycling operations

Take-back No