

# Product data sheet

Specifications



servo motor BMH, Lexium 32,  
62.5Nm, 3800rpm, untapped shaft,  
with brake, IP65, IP67, 16bit  
encoder, straight

BMH2052P26F1A

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

## Main

Device short name	BMH
Product or Component Type	Servo motor
Maximum mechanical speed	3800 rpm
Continuous stall torque	553.2 lbf.in (62.5 N.m) LXM32.D72N4 24 A, 400 V, three phase 553.2 lbf.in (62.5 N.m) LXM32.D72N4 24 A, 480 V, three phase
Peak stall torque	1504.6 lbf.in (170 N.m) LXM32.D72N4 24 A, 400 V, three phase 1504.6 lbf.in (170 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal output power	6500 W LXM32.D72N4 24 A, 400 V, three phase 6500 W LXM32.D72N4 24 A, 480 V, three phase
Nominal torque	368.2 lbf.in (41.6 N.m) LXM32.D72N4 24 A, 400 V, three phase 368.2 lbf.in (41.6 N.m) LXM32.D72N4 24 A, 480 V, three phase
Nominal speed	1500 rpm LXM32.D72N4 24 A, 400 V, three phase 1500 rpm LXM32.D72N4 24 A, 480 V, three phase
Product compatibility	LXM32.D72N4 400...480 V three phase
Shaft end	Smooth shaft
IP Degree of Protection	IP65 standard IP67 with IP67 kit
Speed feedback resolution	32768 points/turn
Holding brake	With
Mounting Support	International standard flange
Electrical Connection	Straight connectors

## Complementary

Range Compatibility	Lexium 32
[Us] rated supply voltage	480 V
Phase	Three phase
Continuous stall current	24.2 A
Continuous power	7.85 W
Maximum current Irms	96.8 A LXM32.D72N4
Maximum permanent current	96.8 A
Second shaft	Without second shaft end
Shaft diameter	1.5 in (38 mm)
Shaft length	3.1 in (80 mm)

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

<b>Feedback type</b>	Single turn SinCos Hiperface
<b>Holding torque</b>	708.06 lbf.in (80 N.m) holding brake
<b>Motor flange size</b>	8.07 in (205 mm)
<b>Number of motor stacks</b>	2
<b>Torque constant</b>	2.58 N.m/A 248 °F (120 °C)
<b>Back emf constant</b>	161 V/krpm 248 °F (120 °C)
<b>Number of motor poles</b>	5.0
<b>Rotor inertia</b>	145 kg.cm <sup>2</sup>
<b>Stator resistance</b>	0.3 Ohm 68 °F (20 °C)
<b>Stator inductance</b>	2.8 mH 68 °F (20 °C)
<b>Stator electrical time constant</b>	18.7 ms 68 °F (20 °C)
<b>Maximum radial force Fr</b>	4200 N 1000 rpm 3330 N 2000 rpm 2910 N 3000 rpm
<b>Maximum axial force Fa</b>	0.2 x Fr
<b>Brake pull-in power</b>	40 W
<b>Type of cooling</b>	Natural convection
<b>Length</b>	17.9 in (454.5 mm)
<b>Centring collar diameter</b>	7.09 in (180 mm)
<b>Centring collar depth</b>	0.2 in (4 mm)
<b>Number of mounting holes</b>	4
<b>Mounting holes diameter</b>	0.6 in (14 mm)
<b>Circle diameter of the mounting holes</b>	8.5 in (215 mm)
<b>Net Weight</b>	107.8 lb(US) (48.9 kg)
<b>Sizing reference</b>	BMH2052P
<b>Network number of phases</b>	3
<b>Accuracy error [angular]</b>	4.8 °
<b>Temperature copper hot</b>	275 °F (135 °C)
<b>Temperature magnet hot</b>	212 °F (100 °C)
<b>Temperature magnet rt</b>	68 °F (20 °C)
<b>Output current 3s peak</b>	96.8 A
<b>Inertia</b>	16.0 kg.cm <sup>2</sup> of brake 129.0 kg.cm <sup>2</sup> of motor

## Ordering and shipping details

<b>Category</b>	US1PC5318282
<b>Discount Schedule</b>	PC53
<b>GTIN</b>	3606485203263
<b>Returnability</b>	No
<b>Country of origin</b>	DE

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	14.2 in (36.0 cm)
<b>Package 1 Width</b>	12.2 in (31.0 cm)
<b>Package 1 Length</b>	28.7 in (73.0 cm)
<b>Package weight(Lbs)</b>	127.9 lb(US) (58.0 kg)

## **Contractual warranty**

<b>Warranty (in months)</b>	18
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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

Total lifecycle Carbon footprint	7 259 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	254 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.5 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	6 992 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
REACH Regulation	<a href="#">REACH Declaration</a>
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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
PVC free	Yes

## Use Longer



### Lifetime extension

Repair	No
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## 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.