

Product data sheet

Specifications



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

BMH2052P27F1A

⚠ Discontinued on: Jun 30, 2023

⚠ Discontinued

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 x 4096 turns
Holding brake	With
Mounting support	International standard flange
Electrical connection	Straight connectors

Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	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)

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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.2 in (36.0 cm)
Package 1 Width	12.2 in (31.0 cm)
Package 1 Length	28.7 in (73.0 cm)
Package 1 Weight	127.9 lb(US) (58.0 kg)

Contractual warranty

Warranty (in 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

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
SCIP Number	A7df881f-135f-4256-b8c2-ea55d4c9a151
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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	Nej
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins