

servo motor BMH, Lexium 32, 34.4Nm, 3800rpm, keyed shaft, with brake, IP65, IP67, 16bit encoder

BMH2051P36F2A

### Main

Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	3800 rpm	
Continuous stall torque	34.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 34.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Peak stall torque	103.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 103.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal output power	5400 W for LXM32.D72N4 at 24 A, 400 V, three phase 5400 W for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal torque	25.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase 25.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
Nominal speed	2000 rpm for LXM32.D72N4 at 24 A, 400 V, three phase 2000 rpm for LXM32.D72N4 at 24 A, 480 V, three phase	
Product compatibility	LXM32.D72N4 at 400480 V three phase	
Shaft end	Keyed	
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	Rotatable right-angled connectors	

### Complementary

Range compatibility	Lexium 32
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Continuous stall current	21.5 A
Continuous power	6.8 W
Maximum current Irms	78.1 A for LXM32.D72N4
Maximum permanent current	78.1 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
key width	70 mm

Feedback type	Single turn SinCos Hiperface	
Holding torque	80 N.m holding brake	
Motor flange size	205 mm	
Number of motor stacks	1	
Torque constant	1.6 N.m/A	
Back emf constant	104 V/krpm at 120 °C	
Number of motor poles	5.0	
Rotor inertia	87.4 kg.cm²	
Stator resistance	0.3 Ohm at 20 °C	
Stator inductance	2.95 mH at 20 °C	
Stator electrical time constant	19.7 ms at 20 °C	
Maximum radial force Fr	3730 N at 1000 rpm 2960 N at 2000 rpm 2580 N at 3000 rpm	
Maximum axial force Fa	0.2 x Fr	
Brake pull-in power	40 W	
type of cooling	Natural convection	
Length	370.5 mm	
Centring collar diameter	180 mm	
centring collar depth	4 mm	
Number of mounting holes	4	
Mounting holes diameter	14 mm	
Circle diameter of the mounting holes	215 mm	
Net weight	37.9 kg	
Sizing reference	BMH2051P	
Network number of phases	3	
Accuracy error [angular]	4.8 °	
Temperature copper hot	135 °C	
Temperature magnet hot	100 °C	
Temperature magnet rt	20 °C	

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	36.0 cm
Package 1 Width	31.0 cm
Package 1 Length	58.0 cm
Package 1 Weight	43.0 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	
Total lifecycle Carbon footprint	6009
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	
End of life manual availability	No need of specific recycling operations
Take-back	No