

servo motor BMH, Lexium 32, 65Nm, 3500rpm, keyed shaft, without brake, IP65, IP67, 128bit encoder

BMH1903P31A2A

Main

IVIAIII		
Device short name	ВМН	
Product or component type	Servo motor	
Maximum mechanical speed	3500 rpm	
Continuous stall torque	43.2 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
	43.2 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	57.6 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	57.6 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	65 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	65 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Peak stall torque	122.8 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
	122.8 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	141.3 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	141.3 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	162.7 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	162.7 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal output power	5700 W for LXM32.D72N4 at 24 A, 400 V, three phase	
	5700 W for LXM32.D72N4 at 24 A, 480 V, three phase	
	7330 W for LXM32MD85N4 at 32 A, 400 V, three phase	
	7330 W for LXM32MD85N4 at 32 A, 480 V, three phase	
	7750 W for LXM32MC10N4 at 40 A, 400 V, three phase	
	7750 W for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal torque	36 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
·	36 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	35 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	35 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	37 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	37 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal speed	1500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase	
	1500 rpm for LXM32.D72N4 at 24 A, 480 V, three phase	
	2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase	
	2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase	
	2000 rpm for LXM32MD85N4 at 32 A, 400 V, three phase	
	2000 rpm for LXM32MD85N4 at 32 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	131072 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	
Network number of phases	Three phase	
Continuous stall current	36.1 A	
Continuous power	7.95 W	
Maximum current Irms	124.26 A for LXM32.D72N4	
Maximum permanent current	124.5 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	
Motor flange size	190 mm	
Number of motor stacks	3	
Torque constant	1.8 N.m/A at 120 °C	
Back emf constant	129.2 V/krpm at 120 °C	
Number of motor poles	5.0	
Rotor inertia	194.1 kg.cm²	
Stator resistance	0.13 Ohm at 20 °C	
Stator inductance	1.81 mH at 20 °C	
Stator electrical time constant	27.8 ms at 20 °C	
Maximum radial force Fr	4500 N at 1000 rpm	
Maximum axial force Fa	0.2 x Fr	
type of cooling	Natural convection	
Length	310 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	43 kg	
Sizing reference	BMH1903P	
Network number of phases	3	
Accuracy error [angular]	1.4 °	
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	30.0 cm

Package 1 Width	40.0 cm
Package 1 Length	79.5 cm
Package 1 Weight	45.0 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	105 cm
Package 2 Width	80 cm
Package 2 Length	60 cm
Package 2 Weight	197 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	8540
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
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins