Product datasheet

Specification





servo motor BMH, Lexium 32, 48Nm, 4000rpm, untapped shaft, with brake, IP65, IP67, 128bit encoder

BMH1902P21F2A

Main

IVIAIII		
Device short name	ВМН	
product or component type	Servo motor	
Maximum mechanical speed	4000 rpm	
Continuous stall torque	37.4 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
	37.4 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	48 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	48 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	48 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	48 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Peak stall torque	101 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
	101 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	115.5 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	115.5 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	130.7 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	130.7 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal output power	5900 W for LXM32.D72N4 at 24 A, 400 V, three phase	
	5900 W for LXM32.D72N4 at 24 A, 480 V, three phase	
	6070 W for LXM32MD85N4 at 32 A, 400 V, three phase	
	6070 W for LXM32MD85N4 at 32 A, 480 V, three phase	
	6070 W for LXM32MC10N4 at 40 A, 400 V, three phase	
	6070 W for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal torque	22.3 N.m for LXM32.D72N4 at 24 A, 400 V, three phase	
	22.3 N.m for LXM32.D72N4 at 24 A, 480 V, three phase	
	29 N.m for LXM32MD85N4 at 32 A, 400 V, three phase	
	29 N.m for LXM32MD85N4 at 32 A, 480 V, three phase	
	29 N.m for LXM32MC10N4 at 40 A, 400 V, three phase	
	29 N.m for LXM32MC10N4 at 40 A, 480 V, three phase	
Nominal speed	2000 rpm for LXM32MC10N4 at 40 A, 400 V, three phase	
	2000 rpm for LXM32MC10N4 at 40 A, 480 V, three phase	
	2500 rpm for LXM32.D72N4 at 24 A, 400 V, three phase	
	2500 rpm for LXM32.D72N4 at 24 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	Smooth shaft	
IP degree of protection	IP65 standard IP67 with IP67 kit	
Speed feedback resolution	131072 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	30.8 A
Continuous power	6.1 W
Maximum current Irms	72 A for LXM32.D72N4
Maximum permanent current	114 A
Second shaft	Without second shaft end
Shaft diameter	38 mm
Shaft length	80 mm
Feedback type	Single turn SinCos Hiperface
Holding torque	80 N.m holding brake
Motor flange size	190 mm
Number of motor stacks	2
Torque constant	1.56 N.m/A at 120 °C
Back emf constant	108.3 V/krpm at 120 °C
Number of motor poles	10
Rotor inertia	144.8 kg.cm²
Stator resistance	0.15 Ohm at 20 °C
Stator inductance	3.86 mH at 20 °C
Stator electrical time constant	25.7 ms at 20 °C
Maximum radial force Fr	4200 N at 1000 rpm
Maximum axial force Fa	0.2 x Fr
Brake pull-in power	40 W
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	32.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	79.5 cm
Package 1 Width	79.5 cm
Package 1 Length	79.5 cm
Package 1 Weight	33.0 kg

Contractual warranty

Warranty

3 Jul 2024

18 months



Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
②	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations