BMH1902P21A2A





Main

Product or component type	Servo motor
Device short name	BMH
Maximum mechanical speed	4000 rpm
Continuous stall torque	37.4 N.m for LXM32.D72N4 24 A at 400 V three
	phase
	37.4 N.m for LXM32.D72N4 24 A at 480 V three phase
	48 N.m for LXM32MD85N4 32 A at 400 V three
	phase 48 N.m for LXM32MD85N4 32 A at 480 V three
	phase
	48 N.m for LXM32MC10N4 40 A at 400 V three phase
	48 N.m for LXM32MC10N4 40 A at 480 V three
	phase
Peak stall torque	893.81 lbf.in (101 N.m) for LXM32.D72N4 24 A at 400 V three phase
	893.81 lbf.in (101 N.m) for LXM32.D72N4 24 A at
	480 V three phase
	115.5 N.m for LXM32MD85N4 32 A at 400 V three phase
	115.5 N.m for LXM32MD85N4 32 A at 480 V three
	phase 130.7 N.m for LXM32MC10N4 40 A at 400 V three
	phase
	130.7 N.m for LXM32MC10N4 40 A at 480 V three phase
Nominal output power	5900 W for LXM32.D72N4 24 A at 400 V three
	phase
	5900 W for LXM32.D72N4 24 A at 480 V three phase
	6070 W for LXM32MD85N4 32 A at 400 V three
	phase 6070 W for LXM32MD85N4 32 A at 480 V three
	phase
	6070 W for LXM32MC10N4 40 A at 400 V three phase
	6070 W for LXM32MC10N4 40 A at 480 V three
No. 2 col Grand	phase
Nominal torque	22.3 N.m for LXM32.D72N4 24 A at 400 V three phase
	22.3 N.m for LXM32.D72N4 24 A at 480 V three
	phase 29 N.m for LXM32MD85N4 32 A at 400 V three
	phase
	29 N.m for LXM32MD85N4 32 A at 480 V three phase
	29 N.m for LXM32MC10N4 40 A at 400 V three
	phase 29 N.m for LXM32MC10N4 40 A at 480 V three
	phase
Nominal speed	2500 rpm LXM32.D72N4 24 A at 400 V three
	phase 2500 rpm LXM32.D72N4 24 A at 480 V three
	phase
	2000 rpm for LXM32MC10N4 40 A at 400 V three phase
	2000 rpm for LXM32MC10N4 40 A at 480 V three
	phase 2000 rpm for LXM32MD85N4 32 A at 400 V three
	phase
	2000 rpm for LXM32MD85N4 32 A at 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	Without
Mounting support	International standard flange
Electrical connection	Rotatable right-angled connectors

Complementary

Complementary			
Range compatibility	Lexium 32		
[Us] rated supply voltage	480 V Three phase		
Phase			
Continuous stall current	30.8 A		
Continuous power	6.1 W		
Maximum current Irms	72 A LXM32.D72N4		
Maximum permanent current	114 A		
Second shaft	Without second shaft end		
Shaft diameter	1.5 in (38 mm)		
Shaft length	3.15 in (80 mm)		
Feedback type	Single turn SinCos Hiperface		
Motor flange size	7.48 in (190 mm)		
Number of motor stacks	2		
Torque constant	1.56 N.m/A at 248 °F (120 °C)		
Back emf constant	108.3 V/krpm at 248 °F (120 °C)		
Number of motor poles	10		
Rotor inertia	130.1 kg.cm²		
Stator resistance	0.15 Ohm at 68 °F (20 °C)		
Stator inductance	3.86 mH at 68 °F (20 °C)		
Stator electrical time constant	25.7 ms at 68 °F (20 °C)		
Maximum radial force Fr	4200 N at 1000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	9.84 in (250 mm)		
Centring collar diameter	7.09 in (180 mm)		
Centring collar depth	0.16 in (4 mm)		
Number of mounting holes	4		
Mounting holes diameter	0.55 in (14 mm)		
Circle diameter of the mounting holes	8.46 in (215 mm)		
Product weight	68.34 lb(US) (31 kg)		

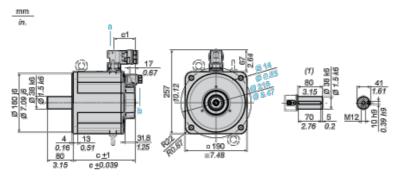
Environment

Offer Sustainability

Green Premium product	Green Premium product	
Compliant - since 1101 - Schneider Electric declaration of conformity	Compliant - since 1101 - Schneider Electric declaration of conformity	
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold	
Available	Available	
Need no specific recycling operations	Need no specific recycling operations	

Servo Motors Dimensions





- Power supply for servo motor brake
- Power supply for servo motor encoder b
- (1) Shaft end, keyed slot (optional)

Dimensions in mm

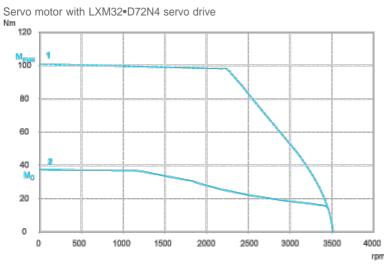
c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
250	308	65	123

Dimensions in in.

c (without brake)	c (with brake)	c1 (without brake)	c1 (with brake)
9.84	12.12	2.56	4.84

Torque/Speed Curves

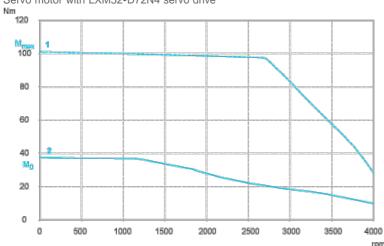
400 V 3-Phase Supply Voltage



- (1) Peak torque
- Continuous torque

480 V 3-Phase Supply Voltage

Servo motor with LXM32•D72N4 servo drive



- (1) Peak torque
- (2) Continuous torque