

synchronous motor - BMP - 230 VAC - 1.5 kW - IP65 - IEC

BMP1002R3NA2A

Main

product or component type	Synchronous motor		
Device short name	ВМР		
Maximum mechanical speed	3600 rpm		
Nominal output power	1100 W with drive ATV32 at 1.1 kW 200 V single phase 1500 W with drive ATV32 at 1.5 kW 200 V single phase 1100 W with drive ATV320 at 1.1 kW 200 V single phase 1500 W with drive ATV320 at 1.5 kW 200 V single phase		
Nominal torque	3.5 N.m with drive ATV32 at 1.1 kW 200 V single phase 4.77 N.m with drive ATV32 at 1.5 kW 200 V single phase 3.5 N.m with drive ATV320 at 1.1 kW 200 V single phase 4.77 N.m with drive ATV320 at 1.5 kW 200 V single phase		
Nominal speed	3000 rpm with drive ATV32 at 1.1 kW 200 V single phase 3000 rpm with drive ATV32 at 1.5 kW 200 V single phase 3000 rpm with drive ATV320 at 1.1 kW 200 V single phase 3000 rpm with drive ATV320 at 1.5 kW 200 V single phase		
Product compatibility	Variable speed drive ATV32 at 1.1 kW 200 V single phase Variable speed drive ATV32 at 1.5 kW 200 V single phase Variable speed drive ATV320 at 1.1 kW 200240 V single phase Variable speed drive ATV320 at 1.5 kW 200240 V single phase		
Shaft end	Keyed		
IP degree of protection	IP65 standard IP67 with IP67 kit		
Holding brake	Without		
mounting support	International standard flange		
Electrical connection	Rotatable right-angled connector		

Complementary

Joinplomental y		
Range compatibility	Altivar 32	
	Altivar Machine ATV320	
[Us] rated supply voltage	230 V	
Network number of phases	Single phase	
Maximum current Irms	10.4 A with drive ATV32 at 1.1 kW 200 V single phase	
	12 A with drive ATV32 at 1.5 kW 200 V single phase	
	10.4 A with drive ATV320 at 1.1 kW 200 V single phase	
	12 A with drive ATV320 at 1.5 kW 200 V single phase	
Nominal operating frequency	250 Hz with drive ATV32 at 1.1 kW 200 V single phase	
	250 Hz with drive ATV32 at 1.5 kW 200 V single phase	
	250 Hz with drive ATV320 at 1.1 kW 200 V single phase	
	250 Hz with drive ATV320 at 1.5 kW 200 V single phase	
Minimum operating frequency	25 Hz with drive ATV32 at 1.1 kW 200 V single phase	
	25 Hz with drive ATV32 at 1.5 kW 200 V single phase	
	25 Hz with drive ATV320 at 1.1 kW 200 V single phase	
	25 Hz with drive ATV320 at 1.5 kW 200 V single phase	

Maximum operating frequency	300 Hz with drive ATV32 at 1.1 kW 200 V single phase 300 Hz with drive ATV32 at 1.5 kW 200 V single phase 300 Hz with drive ATV320 at 1.1 kW 200 V single phase 300 Hz with drive ATV320 at 1.5 kW 200 V single phase		
Shaft diameter	19 mm		
Shaft length	40 mm		
Key width	6 mm		
Motor flange size	100 mm		
Torque constant	0.83 N.m/A at 40 °C		
Number of motor poles	5		
Number of motor stacks	2		
Rotor inertia	6.28 kg.cm ²		
Stator resistance	0.53 Ohm at 40 °C		
Stator inductance	2.18 mH for q-axis winding at 40 °C 1.89 mH for d-axis winding at 40 °C		
Maximum radial force Fr	990 N at 1000 rpm 790 N at 2000 rpm 690 N at 3000 rpm 620 N at 4000 rpm		
Maximum axial force Fa	0.2 x Fr		
Type of cooling	Natural convection		
Length	160.6 mm		
Centring collar diameter	95 mm		
Centring collar depth	3.5 mm		
Number of mounting holes	4		
Mounting holes diameter	9 mm		
Circle diameter of the mounting holes	115 mm		
net weight	4.92 kg		
Packing Units			
Unit Type of Package 1	PCE		
Number of Units in Package 1	1		

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	22.0 cm
Package 1 Width	19.5 cm
Package 1 Length	39.5 cm
Package 1 Weight	5.86 kg
Unit Type of Package 2	P06
Number of Units in Package 2	6
Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	43.66 kg

Contractual warranty

Warranty

2 July 2024

18 months

Sustainability

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 >

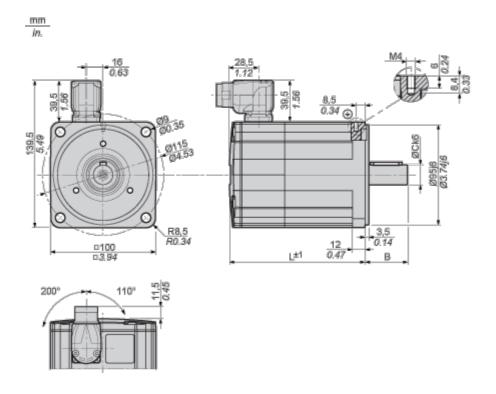
Guide to assess a product's sustainability >

Well-being performance

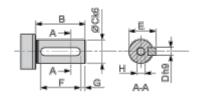
Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

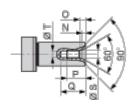
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D



L	mm	160.6
	in.	6.32
В	mm	40
	in.	1.57
	mm	19

Product datasheet BMP1002R3NA2A

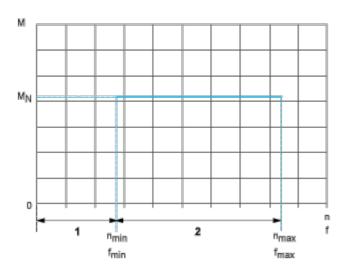
	in.	0.75
D	mm	6
	in.	0.24
E	mm	21.5
	in.	0.85
F	mm	30
Г	in.	1.18
G	mm	5
G	in.	0.20
Н		M6
N	mm	2.8
IN	in.	0.11
0	mm	5
0	in.	0.20
Р	mm	16
Р	in.	0.63
0	mm	21
Q	in.	0.83
S	mm	6.4
	in.	0.25
Т	mm	5
	in.	0.20

Product datasheet

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Performance Curves

Performance curves



M: Torque in Nm

n: Speed in rpm

f: frequency in Hz

1: Only permissible during acceleration and deceleration phases.

2: Continuous operation with the default values from the configuration file.