BMP1401R3NA2A

synchronous motor - BMP - 230 VAC - 2.2 kW - IP65 - IEC



Main	
Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	2000 W with drive ATV32 at 2.2 kW 200 V single phase 2000 W with drive ATV320 at 2.2 kW 200 V single phase
Nominal torque	6.37 N.M with drive ATV32 at 2.2 kW 200 V single phase 6.37 N.m with drive ATV320 at 2.2 kW 200 V single phase
Nominal speed	3000 rpm with drive ATV32 at 2.2 kW 200 V single phase 3000 rpm with drive ATV320 at 2.2 kW 200 V single phase
Product compatibility	Variable speed drive ATV32 at 2.2 kW 200 V single phase Variable speed drive ATV320 at 2.2 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

Altivar Machine ATV320 Altivar 32	
230 V	
Single phase	
16.5 A with drive ATV32 at 2.2 kW 200 V single phase 16.5 A with drive ATV320 at 2.2 kW 200 V single phase	
250 Hz with drive ATV32 at 2.2 kW 200 V single phase 250 Hz with drive ATV320 at 2.2 kW 200 V single phase	
25 Hz with drive ATV32 at 2.2 kW 200 V single phase 25 Hz with drive ATV320 at 2.2 kW 200 V single phase	
300 Hz with drive ATV32 at 2.2 kW 200 V single phase 300 Hz with drive ATV320 at 2.2 kW 200 V single phase	
24 mm	
50 mm	
8 mm	
140 mm	
0.82 N.m/A at 40 °C	
5	
1	
16.46 kg.cm²	
0.2 Ohm at 40 °C	
1.76 MH for q-axis winding at 40 °C 1.47 mH for d-axis winding at 40 °C	

Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm
	1340 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	152 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	8 kg

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	26.5 cm	
Package 1 Width	20.0 cm	
Package 1 Length	59.5 cm	
Package 1 Weight	9.684 kg	
Unit Type of Package 2	P06	
Number of Units in Package 2	4	
Package 2 Height	77.0 cm	
Package 2 Width	80.0 cm	
Package 2 Length	60.0 cm	
Package 2 Weight	47.236 kg	

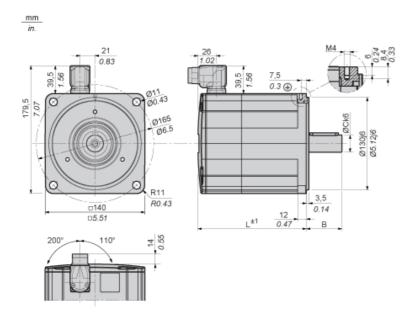
Offer Sustainability

REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	€Yes	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
PVC free	Yes	

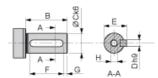
Contractual warranty

BMP1401R3NA2A

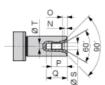
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D



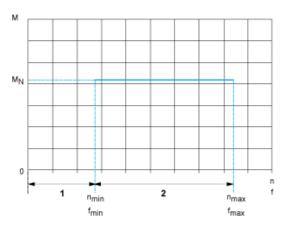
<u> </u>		
L	mm	152
in.	5.98	
В	mm	50
in.	1.97	
С	mm	24
in.	0.94	
D	mm	8
in.	0.31	
E	mm	27
in.	1.06	
F	mm	40
in.	1.57	
G	mm	5
in.	0.20	

Н		M8
N	mm	3.3
in.	0.13	
0	mm	6
in.	0.24	
P	mm	19
in.	0.75	
Q	mm	25
in.	0.98	
S	mm	8.4
in.	0.33	
Т	mm	6.8
in.	0.27	

Product data sheet **Performance Curves**

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Performance curves



M: Torque in Nm n: Speed in rpm f: frequency in Hz

 Only permissible during acceleration and deceleration phases.
 Continuous operation with the default values from the configuration file. Only permissible during acceleration and deceleration phases.