

Product datasheet

Specifications



synchronous motor - BMP - 480 VAC - 1.35 kW - IP65 - IEC

BMP1401C3NA2A

⚠ Discontinued on: 1 Nov 2020

⚠ To be discontinued

Main

Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	1100 W with drive ATV32 at 1.1 kW 400 V three phase 1100 W with drive ATV32 at 1.5 kW 400 V three phase 1100 W with drive ATV320 at 1.1 kW 400 V three phase 1100 W with drive ATV320 at 1.5 kW 400 V three phase
Nominal torque	7 N.m with drive ATV32 at 1.1 kW 400 V three phase 7 N.m with drive ATV32 at 1.5 kW 400 V three phase 7 N.m with drive ATV320 at 1.1 kW 400 V three phase 7 N.m with drive ATV320 at 1.5 kW 400 V three phase
Nominal speed	1500 rpm with drive ATV32 at 1.1 kW 400 V three phase 1500 rpm with drive ATV32 at 1.5 kW 400 V three phase 1500 rpm with drive ATV320 at 1.1 kW 400 V three phase 1500 rpm with drive ATV320 at 1.5 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 at 1.1 kW 400 V three phase Variable speed drive ATV32 at 1.5 kW 400 V three phase Variable speed drive ATV320 at 1.1 kW 380...500 V three phase Variable speed drive ATV320 at 1.5 kW 380...500 V three 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

Range compatibility	Altivar 32 Altivar Machine ATV320
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Maximum current Irms	4.5 A with drive ATV32 at 1.1 kW 400 V three phase 6.2 A with drive ATV32 at 1.5 kW 400 V three phase 4.5 A with drive ATV320 at 1.1 kW 400 V three phase 6.2 A with drive ATV320 at 1.5 kW 400 V three phase
Nominal operating frequency	125 Hz with drive ATV32 at 1.1 kW 400 V three phase 125 Hz with drive ATV32 at 1.5 kW 400 V three phase 125 Hz with drive ATV320 at 1.1 kW 400 V three phase 125 Hz with drive ATV320 at 1.5 kW 400 V three phase

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Minimum operating frequency	13 Hz with drive ATV32 at 1.1 kW 400 V three phase 13 Hz with drive ATV32 at 1.5 kW 400 V three phase 13 Hz with drive ATV320 at 1.1 kW 400 V three phase 13 Hz with drive ATV320 at 1.5 kW 400 V three phase
Maximum operating frequency	150 Hz with drive ATV32 at 1.1 kW 400 V three phase 150 Hz with drive ATV32 at 1.5 kW 400 V three phase 150 Hz with drive ATV320 at 1.1 kW 400 V three phase 150 Hz with drive ATV320 at 1.5 kW 400 V three phase
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 mm
Motor flange size	140 mm
Torque constant	3.06 N.m/A at 40 °C
Number of motor poles	5
Number of motor stacks	1
Rotor inertia	16.46 kg.cm²
Stator resistance	2.56 Ohm at 40 °C
Stator inductance	23.33 mH for q-axis winding at 40 °C 19.4 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	20.000 cm
Package 1 Width	59.000 cm
Package 1 Length	26.500 cm
Package 1 Weight	9.598 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	45.400 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

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 >](#)

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	79b28197-66f2-4e6c-8f52-afc81a014d1f
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	Yes

Use Longer

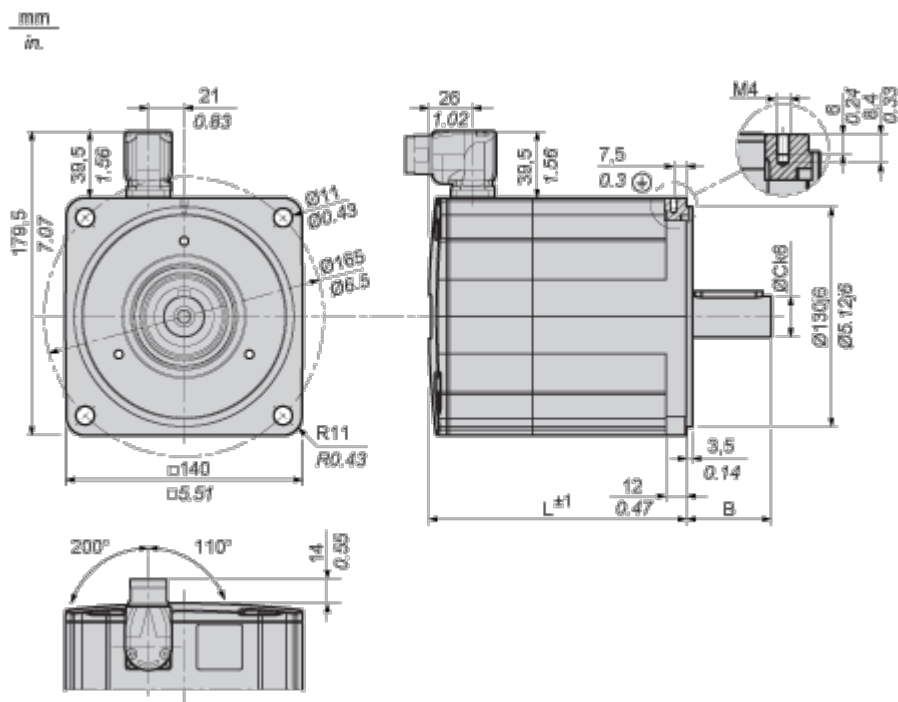
Lifetime extension	
Repair	No

Use Again

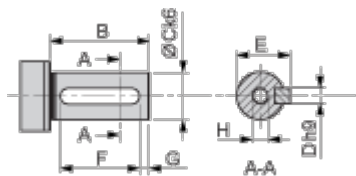
Repack and remanufacture	
Take-back	Nej
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

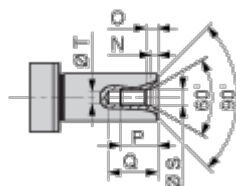
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D

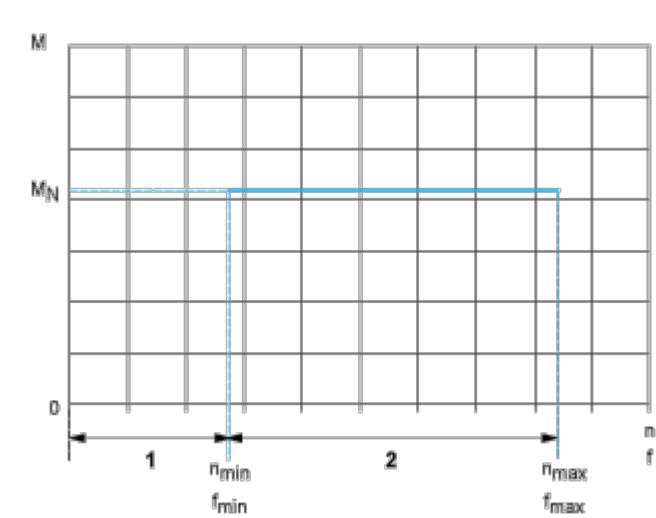


L	mm	152
	in.	5.98
B	mm	50
	in.	1.97
C	mm	24

	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
H		M8
N	mm	3.3
	in.	0.13
O	mm	6
	in.	0.24
P	mm	19
	in.	0.75
Q	mm	25
	in.	0.98
S	mm	8.4
	in.	0.33
T	mm	6.8
	in.	0.27

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.