

Product data sheet

Specifications



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

BMP1401C3NA2A

Main

Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	1100 W ATV32 1.1 kW 400 V three phase 1100 W ATV32 1.5 kW 400 V three phase 1100 W ATV320 1.1 kW 400 V three phase 1100 W ATV320 1.5 kW 400 V three phase
Nominal torque	62.0 lbf.in (7 N.m) ATV32 1.1 kW 400 V three phase 62.0 lbf.in (7 N.m) ATV32 1.5 kW 400 V three phase 62.0 lbf.in (7 N.m) ATV320 1.1 kW 400 V three phase 62.0 lbf.in (7 N.m) ATV320 1.5 kW 400 V three phase
Nominal speed	1500 rpm ATV32 1.1 kW 400 V three phase 1500 rpm ATV32 1.5 kW 400 V three phase 1500 rpm ATV320 1.1 kW 400 V three phase 1500 rpm ATV320 1.5 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 1.1 kW 400 V three phase Variable speed drive ATV32 1.5 kW 400 V three phase Variable speed drive ATV320 1.1 kW 380...500 V three phase Variable speed drive ATV320 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 ATV32 1.1 kW 400 V three phase 6.2 A ATV32 1.5 kW 400 V three phase 4.5 A ATV320 1.1 kW 400 V three phase 6.2 A ATV320 1.5 kW 400 V three phase
Nominal operating frequency	125 Hz ATV32 1.1 kW 400 V three phase 125 Hz ATV32 1.5 kW 400 V three phase 125 Hz ATV320 1.1 kW 400 V three phase 125 Hz ATV320 1.5 kW 400 V three phase
Minimum operating frequency	13 Hz ATV32 1.1 kW 400 V three phase 13 Hz ATV32 1.5 kW 400 V three phase 13 Hz ATV320 1.1 kW 400 V three phase 13 Hz ATV320 1.5 kW 400 V three phase

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

Maximum operating frequency	150 Hz ATV32 1.1 kW 400 V three phase 150 Hz ATV32 1.5 kW 400 V three phase 150 Hz ATV320 1.1 kW 400 V three phase 150 Hz ATV320 1.5 kW 400 V three phase
Shaft diameter	0.9 in (24 mm)
Shaft length	2.0 in (50 mm)
Key width	0.3 in (8 mm)
Motor flange size	5.5 in (140 mm)
Torque constant	3.06 N.m/A 104 °F (40 °C)
Number of motor poles	5
Number of motor stacks	1
Rotor inertia	16.46 kg.cm²
Stator resistance	2.56 Ohm 104 °F (40 °C)
Stator inductance	23.33 mH for q-axis winding 104 °F (40 °C) 19.4 mH for d-axis winding 104 °F (40 °C)
Maximum radial force Fr	1930 N 1000 rpm 1530 N 2000 rpm 1340 N 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.0 in (152 mm)
Centring collar diameter	5.1 in (130 mm)
Centring collar depth	0.1 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.4 in (11 mm)
Circle diameter of the mounting holes	6.5 in (165 mm)
Net weight	17.6 lb(US) (8 kg)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.874 in (20.000 cm)
Package 1 Width	23.228 in (59.000 cm)
Package 1 Length	10.433 in (26.500 cm)
Package 1 Weight	21.160 lb(US) (9.598 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	4
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	100.090 lb(US) (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
PVC free	Yes

Use Longer

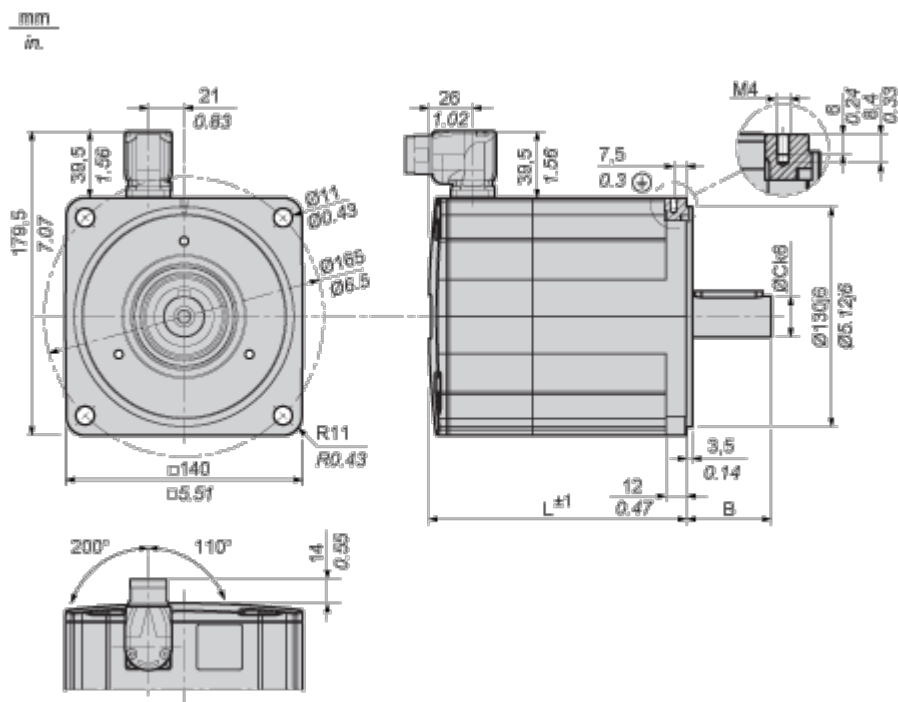
Lifetime extension	
Repair	No

Use Again

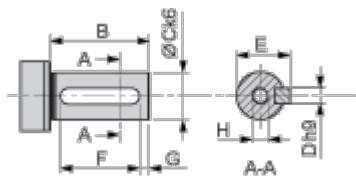
Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

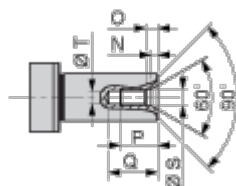
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D

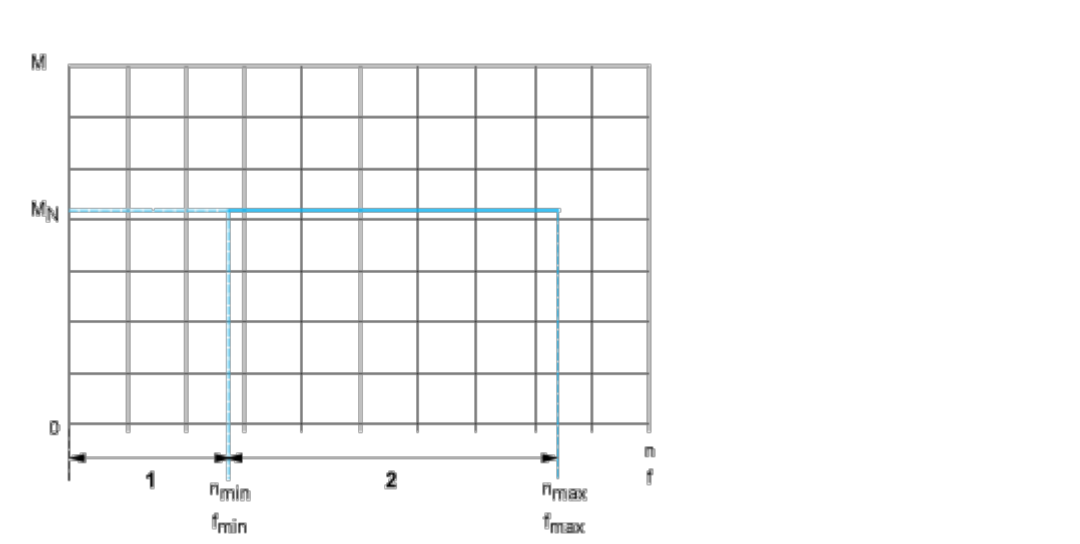


L	mm	152
	in.	5.98
B	mm	50
	in.	1.97
C	mm	24

	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.