

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

BMP1401C3NA2A

Product availability: Non-Stock - Not normally stocked in distribution facility

### Main

Product or Component Type	Synchronous motor	
Device short name	ВМР	
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 380500 V three phase	
	Variable speed drive ATV320 1.5 kW 380500 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
Phase	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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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)	

# Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606480564468
Returnability	No
Country of origin	DE

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	23.23 in (59.000 cm)
Package 1 Length	10.43 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	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	100.090 lb(US) (45.400 kg)

### **Contractual warranty**

Warranty 18 months



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**

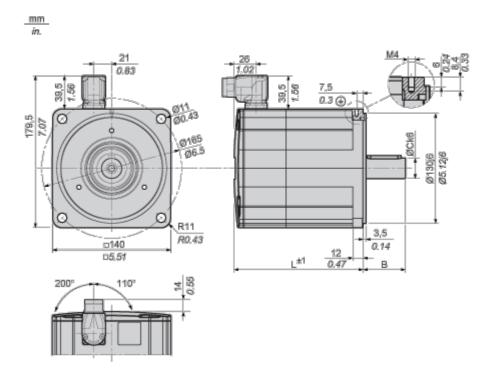
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	79b28197-66f2-4e6c-8f52-afc81a014d1f
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

#### **Use Again**

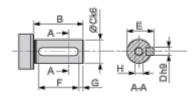
○ Repack and remanufacture		
Take-back	No	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

#### **Dimensions Drawings**

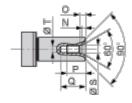
#### **Dimensions**



#### Parallel Key According to DIN 6885 A



#### Female Thread of Shaft According to DIN 332-D



L	mm	152
	in.	5.98
В	mm	50
	in.	1.97
	mm	24

# Product data sheet BMP1401C3NA2A

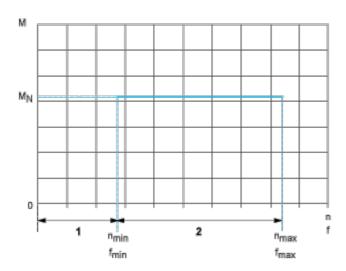
	in.	0.94
	mm	8
D	in.	0.31
E	mm	27
	in.	1.06
F	mm	40
F	in.	1.57
G	mm	5
G	in.	0.20
Н		M8
	mm	3.3
N	in.	0.13
0	mm	6
0	in.	0.24
Р	mm	19
	in.	0.75
	mm	25
Q	in.	0.98
c	mm	8.4
S	in.	0.33
	mm	6.8
Т	in.	0.27

### **Product data sheet**

### **BMP1401C3NA2A**

#### 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.