

# Product data sheet

## Characteristics

# BMP0701F3NA2A

synchronous motor - BMP - 480 VAC - 0.37 kW  
- IP65 - IEC



### Main

|                           |   |
|---------------------------|---|
| Product or component type | Synchronous motor   |
| Device short name         | BMP   |
| Maximum mechanical speed  | 3600 rpm  |
| Nominal output power      | 370 W with drive ATV32 at 0.37 kW 400 V three phase<br>370 W with drive ATV320 at 0.37 kW 400 V three phase               |
| Nominal torque            | 1.18 N.M with drive ATV32 at 0.37 kW 400 V three phase<br>1.18 N.m with drive ATV320 at 0.37 kW 400 V three phase         |
| Nominal speed             | 3000 rpm with drive ATV32 at 0.37 kW 400 V three phase<br>3000 rpm with drive ATV320 at 0.37 kW 400 V three phase         |
| Product compatibility     | Variable speed drive ATV32 at 0.37 kW 400 V three phase<br>Variable speed drive ATV320 at 0.37 kW 380...500 V three phase |
| Shaft end                 | Keyed   |
| IP degree of protection   | IP65 standard<br>IP67 with IP67 kit   |
| Holding brake             | Without   |
| Mounting support          | International standard flange   |
| Electrical connection     | Rotatable right-angled connector  |

### Complementary

|                                  |   |
|----------------------------------|---|
| Range compatibility              | Altivar Machine ATV320<br>Altivar 32  |
| [Us] rated supply voltage        | 480 V   |
| Network number of phases         | Three phase   |
| Maximum current I <sub>rms</sub> | 2.3 A with drive ATV32 at 0.37 kW 400 V three phase<br>2.3 A with drive ATV320 at 0.37 kW 400 V three phase   |
| Nominal operating frequency      | 250 Hz with drive ATV32 at 0.37 kW 400 V three phase<br>250 Hz with drive ATV320 at 0.37 kW 400 V three phase |
| Minimum operating frequency      | 60 Hz with drive ATV32 at 0.37 kW 400 V three phase<br>60 Hz with drive ATV320 at 0.37 kW 400 V three phase   |
| Maximum operating frequency      | 300 Hz with drive ATV32 at 0.37 kW 400 V three phase<br>300 Hz with drive ATV320 at 0.37 kW 400 V three phase |
| Shaft diameter                   | 11 mm   |
| Shaft length                     | 23 mm   |
| Key width                        | 4 mm  |
| Motor flange size                | 70 mm   |
| Torque constant                  | 1.48 N.m/A at 40 °C   |
| Number of motor poles            | 5   |
| Number of motor stacks           | 1   |
| Rotor inertia                    | 0.59 kg.cm <sup>2</sup>   |
| Stator resistance                | 17.75 Ohm at 40 °C  |
| Stator inductance                | 40.03 mH for q-axis winding at 40 °C<br>40.03 mH for d-axis winding at 40 °C                                  |

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|                                       |  |
|---------------------------------------|--|
| Maximum radial force Fr               | 660 N at 1000 rpm<br>520 N at 2000 rpm<br>460 N at 3000 rpm<br>410 N at 4000 rpm |
| Maximum axial force Fa                | 0.2 x Fr   |
| Type of cooling                       | Natural convection   |
| Length                                | 122 mm   |
| Centring collar diameter              | 60 mm  |
| Centring collar depth                 | 2.5 mm   |
| Number of mounting holes              | 4  |
| Mounting holes diameter               | 5.5 mm   |
| Circle diameter of the mounting holes | 75...82 mm   |
| Net weight                            | 1.6 kg   |

### Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 11.5 cm   |
| Package 1 Width              | 19.0 cm   |
| Package 1 Length             | 40.0 cm   |
| Package 1 Weight             | 2.084 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             | 21.004 kg |

### Offer Sustainability

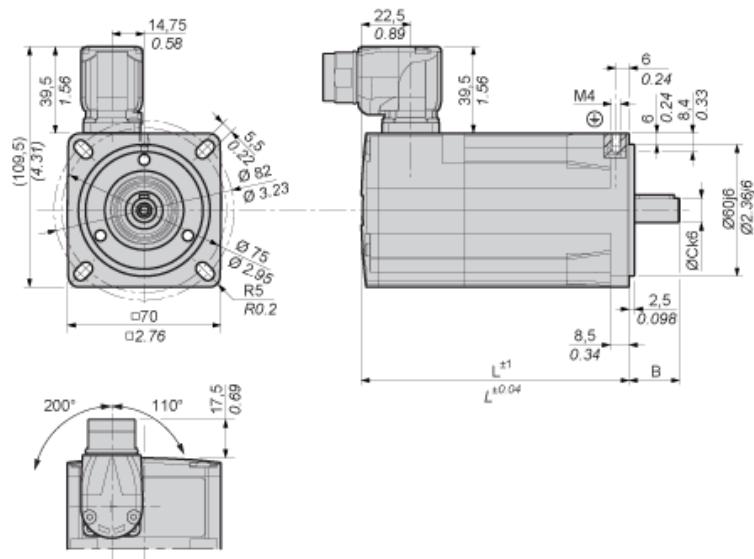
|                            |   |
|----------------------------|---|
| REACH Regulation           |  <a href="#">REACH Declaration</a>       |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)  |
| Mercury free               | Yes   |
| China RoHS Regulation      |  <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information |  <a href="#">Yes</a>                     |
| 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

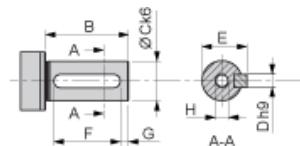
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Dimensions

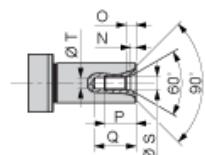
mm  
in.



## Parallel Key According to DIN 6885 A



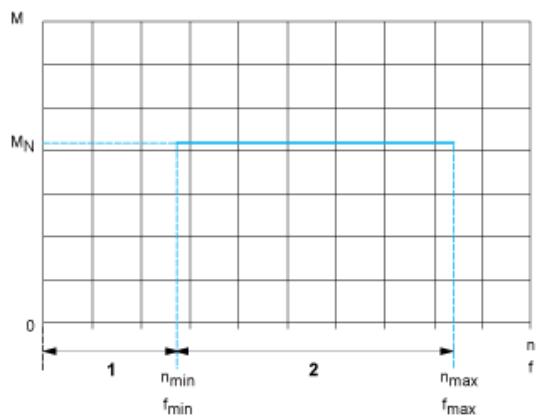
## Female Thread of Shaft According to DIN 332-D



|     |      |      |
|-----|------|------|
| L   | mm   | 122  |
| in. | 4.80 |      |
| B   | mm   | 23   |
| in. | 0.90 |      |
| C   | mm   | 11   |
| in. | 0.43 |      |
| D   | mm   | 4    |
| in. | 0.16 |      |
| E   | mm   | 12.5 |
| in. | 0.49 |      |
| F   | mm   | 18   |
| in. | 0.71 |      |
| G   | mm   | 2.5  |
| in. | 0.10 |      |

|     |      |     |
|-----|------|-----|
| H   |      | M4  |
| N   | mm   | 2.1 |
| in. | 0.08 |     |
| O   | mm   | 3.2 |
| in. | 0.12 |     |
| P   | mm   | 10  |
| in. | 0.39 |     |
| Q   | mm   | 14  |
| in. | 0.55 |     |
| S   | mm   | 4.3 |
| in. | 0.17 |     |
| T   | mm   | 3.3 |
| in. | 0.13 |     |

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.