

Product data sheet

Specifications



synchronous motor - BMP - 230 VAC - 0.37 kW - IP65 - IEC

BMP0701R3NA2A

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

Main

Product or Component Type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	370 W ATV32 0.37 kW 200 V single phase 370 W ATV320 0.37 kW 200 V single phase
Nominal torque	10.44 lbf.in (1.18 N.m) ATV32 0.37 kW 200 V single phase 10.44 lbf.in (1.18 N.m) ATV320 0.37 kW 200 V single phase
Nominal speed	3000 rpm ATV32 0.37 kW 200 V single phase 3000 rpm ATV320 0.37 kW 200 V single phase
Product compatibility	Variable speed drive ATV32 0.37 kW 200 V single phase Variable speed drive ATV320 0.37 kW 200...240 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

Range Compatibility	Altivar Machine ATV320 Altivar 32
[Us] rated supply voltage	230 V
Phase	Single phase
Maximum current Irms	5 A ATV32 0.37 kW 200 V single phase 5 A ATV320 0.37 kW 200 V single phase
Nominal operating frequency	250 Hz ATV32 0.37 kW 200 V single phase 250 Hz ATV320 0.37 kW 200 V single phase
Minimum operating frequency	43 Hz ATV32 0.37 kW 200 V single phase 43 Hz ATV320 0.37 kW 200 V single phase
Maximum operating frequency	300 Hz ATV32 0.37 kW 200 V single phase 300 Hz ATV320 0.37 kW 200 V single phase
Shaft diameter	0.4 in (11 mm)
Shaft length	0.9 in (23 mm)
Key width	0.2 in (4 mm)
Motor flange size	2.8 in (70 mm)
Torque constant	0.81 N.m/A 104 °F (40 °C)

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

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

Number of motor poles	5
Number of motor stacks	1
Rotor inertia	0.59 kg.cm²
Stator resistance	5.37 Ohm 104 °F (40 °C)
Stator inductance	12.15 mH for q-axis winding 104 °F (40 °C) 12.15 mH for d-axis winding 104 °F (40 °C)
Maximum radial force Fr	660 N 1000 rpm 520 N 2000 rpm 460 N 3000 rpm 410 N 4000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	4.8 in (122 mm)
Centring collar diameter	2.4 in (60 mm)
Centring collar depth	0.10 in (2.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.2 in (5.5 mm)
Circle diameter of the mounting holes	3.0...3.2 in (75...82 mm)
Product Weight	3.5 lb(US) (1.6 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606480564390
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.528 in (11.500 cm)
Package 1 Width	7.638 in (19.400 cm)
Package 1 Length	15.669 in (39.800 cm)
Package weight(Lbs)	4.493 lb(US) (2.038 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	24
Package 2 Height	30.315 in (77.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	125.470 lb(US) (56.912 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	220b7c86-2587-4ab9-8aca-f51666edab07
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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 Longer

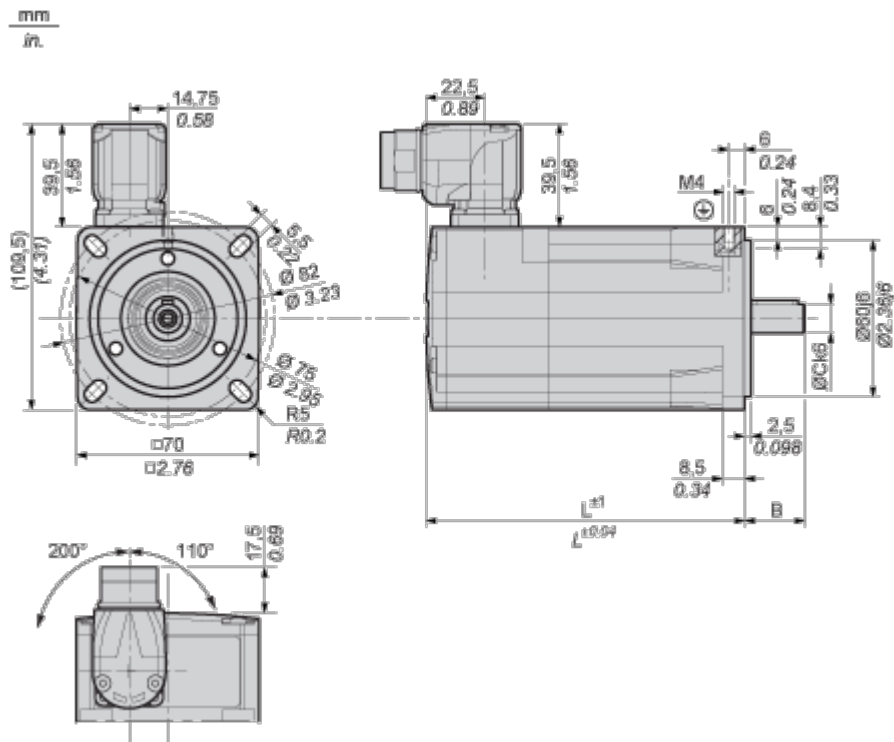
Lifetime extension	
Repair	No

Use Again

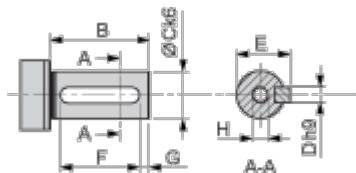
Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

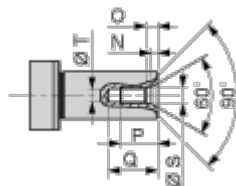
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D

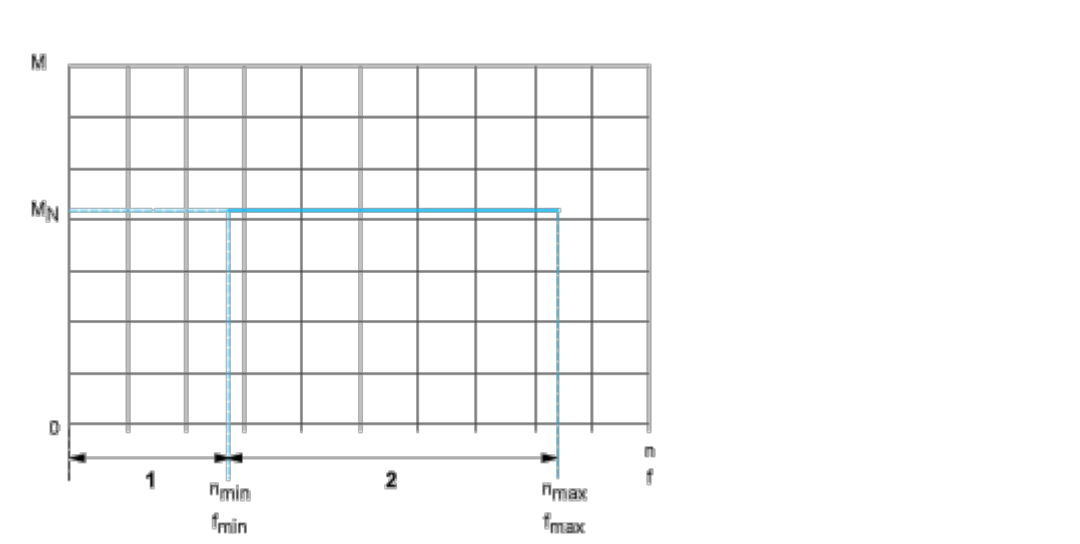


L	mm	122
	in.	4.80
B	mm	23
	in.	0.90
C	mm	11

	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

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.