

Product data sheet

Specifications



synchronous motor - BMP - 480 VAC - 0.55 kW - IP65 - IEC

BMP0702F3NA2A

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	550 W ATV32 0.55 kW 400 V three phase 550 W ATV320 0.55 kW 400 V three phase
Nominal torque	15.49 lbf.in (1.75 N.m) ATV32 0.55 kW 400 V three phase 15.49 lbf.in (1.75 N.m) ATV320 0.55 kW 400 V three phase
Nominal speed	3000 rpm ATV32 0.55 kW 400 V three phase 3000 rpm ATV320 0.55 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 0.55 kW 400 V three phase Variable speed drive ATV320 0.55 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 Machine ATV320 Altivar 32
[Us] rated supply voltage	480 V
Phase	Three phase
Maximum current Irms	2.9 A ATV32 0.55 kW 400 V three phase 2.9 A ATV320 0.55 kW 400 V three phase
Nominal operating frequency	250 Hz ATV32 0.55 kW 400 V three phase 250 Hz ATV320 0.55 kW 400 V three phase
Minimum operating frequency	25 Hz ATV32 0.55 kW 400 V three phase 25 Hz ATV320 0.55 kW 400 V three phase
Maximum operating frequency	300 Hz ATV32 0.55 kW 400 V three phase 300 Hz ATV320 0.55 kW 400 V three 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	1.51 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	2
Rotor inertia	1.13 kg.cm²
Stator resistance	6.96 Ohm 104 °F (40 °C)
Stator inductance	20.7 mH for q-axis winding 104 °F (40 °C) 20.7 mH for d-axis winding 104 °F (40 °C)
Maximum radial force Fr	710 N 1000 rpm 560 N 2000 rpm 490 N 3000 rpm 450 N 4000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	6.06 in (154 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	4.0 lb(US) (1.8 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606480564406
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.6 in (11.8 cm)
Package 1 Width	6.9 in (17.5 cm)
Package 1 Length	14.9 in (37.8 cm)
Package weight(Lbs)	6.135 lb(US) (2.783 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	11.8 in (30 cm)
Package 2 Width	15.7 in (40 cm)
Package 2 Length	23.6 in (60 cm)
Package 2 Weight	19.811 lb(US) (8.986 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	24
Package 3 Height	29.528 in (75.000 cm)

Package 3 Width	31.496 in (80.000 cm)
Package 3 Length	23.622 in (60.000 cm)
Package 3 Weight	183.82 lb(US) (83.38 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	011fd9f0-94c4-44f0-a356-8c78f14f682f
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

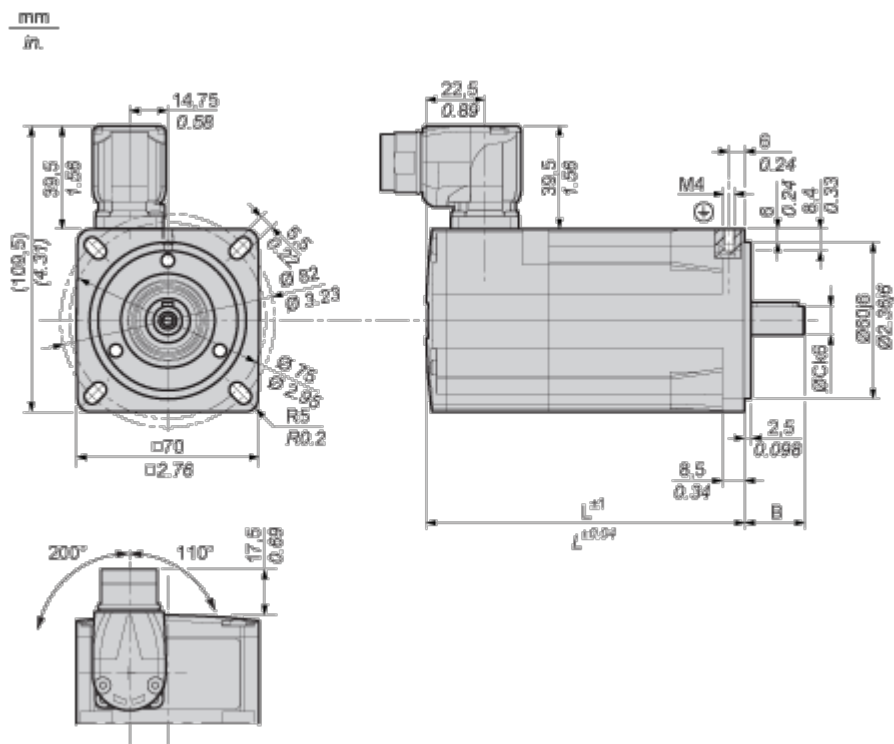
Lifetime extension	
Repair	No

Use Again

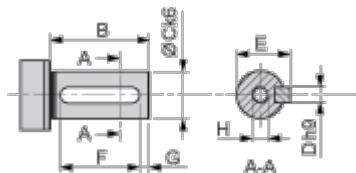
Repack and remanufacture	
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

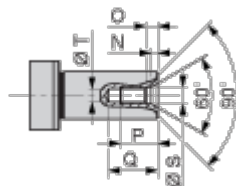
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D

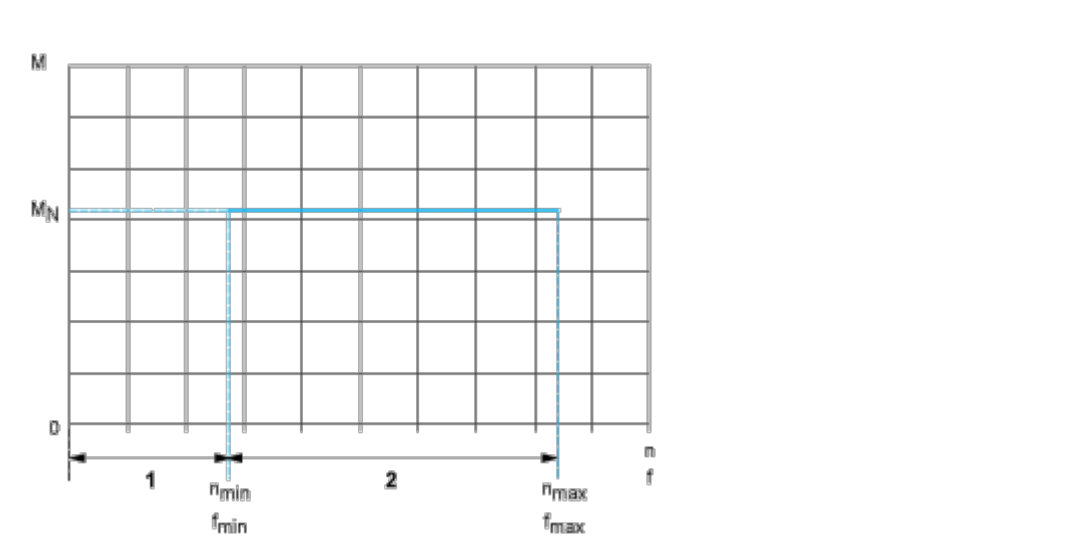


L	mm	154
	in.	6.06
B	mm	23
	in.	0.90
C	mm	11

	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.