Product datasheet

Specifications

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

BMP0702F3NA2A

Main

Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	550 W with drive ATV32 at 0.55 kW 400 V three phase 550 W with drive ATV320 at 0.55 kW 400 V three phase
Nominal torque	1.75 N.m with drive ATV32 at 0.55 kW 400 V three phase 1.75 N.m with drive ATV320 at 0.55 kW 400 V three phase
Nominal speed	3000 rpm with drive ATV32 at 0.55 kW 400 V three phase 3000 rpm with drive ATV320 at 0.55 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 at 0.55 kW 400 V three phase Variable speed drive ATV320 at 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
Network number of phases	Three phase
Maximum current Irms	2.9 A with drive ATV32 at 0.55 kW 400 V three phase 2.9 A with drive ATV320 at 0.55 kW 400 V three phase
Nominal operating frequency	250 Hz with drive ATV32 at 0.55 kW 400 V three phase 250 Hz with drive ATV320 at 0.55 kW 400 V three phase
Minimum operating frequency	25 Hz with drive ATV32 at 0.55 kW 400 V three phase 25 Hz with drive ATV320 at 0.55 kW 400 V three phase
Maximum operating frequency	300 Hz with drive ATV32 at 0.55 kW 400 V three phase 300 Hz with drive ATV320 at 0.55 kW 400 V three phase
Shaft diameter	11 mm
Shaft length	23 mm
Key width	4 mm
Motor flange size	70 mm
Torque constant	1.51 N.m/A at 40 °C

Number of motor poles	5
Number of motor stacks	2
Rotor inertia	1.13 kg.cm²
Stator resistance	6.96 Ohm at 40 °C
Stator inductance	20.7 mH for q-axis winding at 40 °C 20.7 mH for d-axis winding at 40 °C
Maximum radial force Fr	710 N at 1000 rpm 560 N at 2000 rpm 490 N at 3000 rpm 450 N at 4000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	154 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	1.8 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	39.5 cm
Package 1 Weight	2.786 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	25.216 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

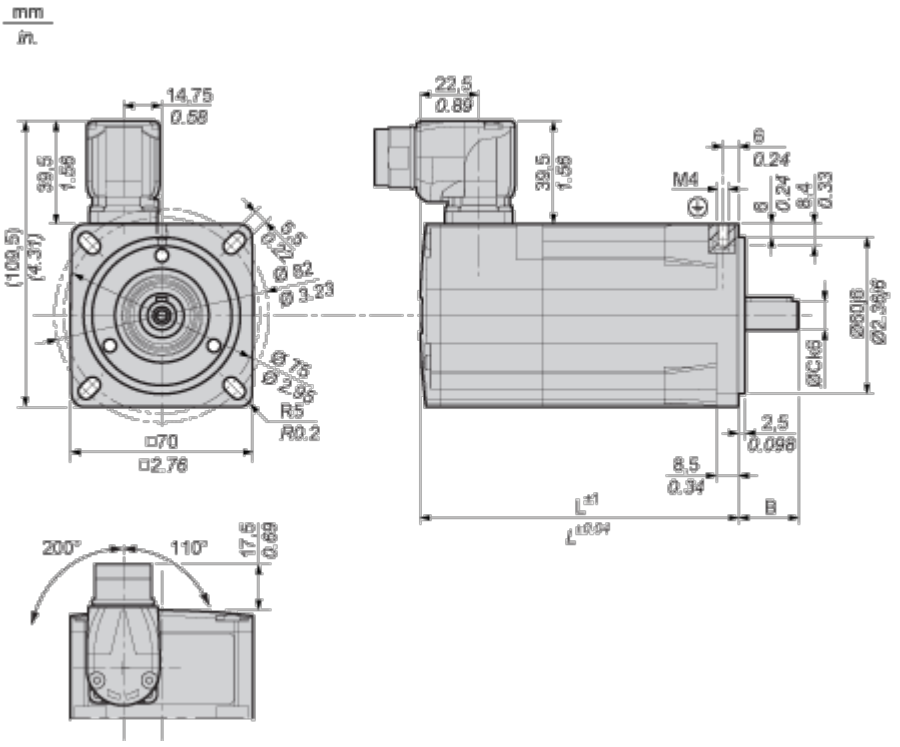
Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

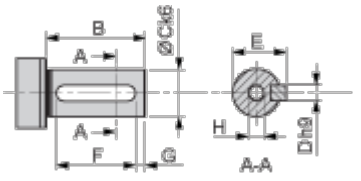
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

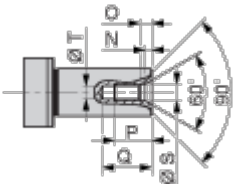
Dimensions



Parallel Key According to DIN 6885 A



Female Thread of Shaft According to DIN 332-D

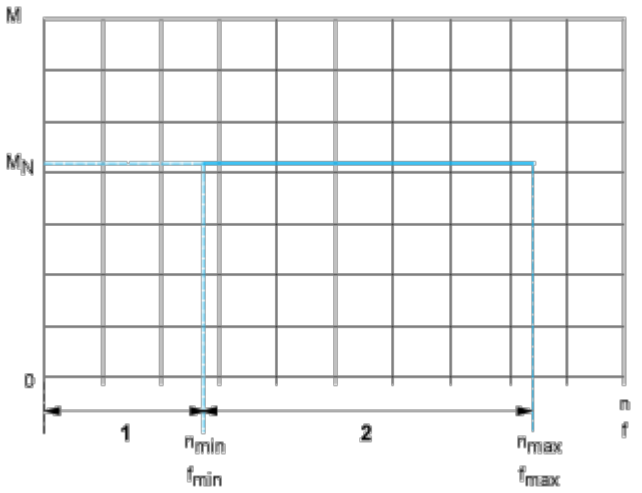


L	mm	154
	in.	6.06
B	mm	23
	in.	0.90
C	mm	11

	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.