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Product data sheet

Specifications



synchronous motor - BMP - 230 VAC - 0.55 kW - IP65 - IEC

BMP0702R3NA2A

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 200 V single phase 550 W ATV320 0.55 kW 200 V single phase
Nominal torque	15.49 lbf.in (1.75 N.m) ATV32 0.55 kW 200 V single phase 15.49 lbf.in (1.75 N.m) ATV320 0.55 kW 200 V single phase
Nominal speed	3000 rpm ATV32 0.55 kW 200 V single phase 3000 rpm ATV320 0.55 kW 200 V single phase
Product compatibility	Variable speed drive ATV32 0.55 kW 200 V single phase Variable speed drive ATV320 0.55 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 32 Altivar Machine ATV320
[Us] rated supply voltage	230 V
Phase	Single phase
Maximum current Irms	5.6 A ATV32 0.55 kW 200 V single phase 5.6 A ATV320 0.55 kW 200 V single phase
Nominal operating frequency	250 Hz ATV32 0.55 kW 200 V single phase 250 Hz ATV320 0.55 kW 200 V single phase
Minimum operating frequency	25 Hz ATV32 0.55 kW 200 V single phase 25 Hz ATV320 0.55 kW 200 V single phase
Maximum operating frequency	300 Hz ATV32 0.55 kW 200 V single phase 300 Hz ATV320 0.55 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	0.84 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

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Number of motor poles	5
Number of motor stacks	2
Rotor inertia	1.13 kg.cm²
Stator resistance	2.19 Ohm 104 °F (40 °C)
Stator inductance	6.45 mH for q-axis winding 104 °F (40 °C) 6.45 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)
Net Weight	4.0 lb(US) (1.8 kg)

Ordering and shipping details

Category	US1PC5318282
Discount Schedule	PC53
GTIN	3606480564413
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.33 in (11.000 cm)
Package 1 Width	7.36 in (18.700 cm)
Package 1 Length	15.47 in (39.300 cm)
Package 1 Weight	6.169 lb(US) (2.798 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	6
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	38.444 lb(US) (17.438 kg)
Unit Type of Package 3	P12
Number of Units in Package 3	24
Package 3 Height	17.72 in (45.000 cm)

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Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	47.24 in (120.000 cm)
Package 3 Weight	180.232 lb(US) (81.752 kg)

Contractual warranty

Warranty	18 months

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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
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	011fd9f0-94c4-44f0-a356-8c78f14f682f
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.

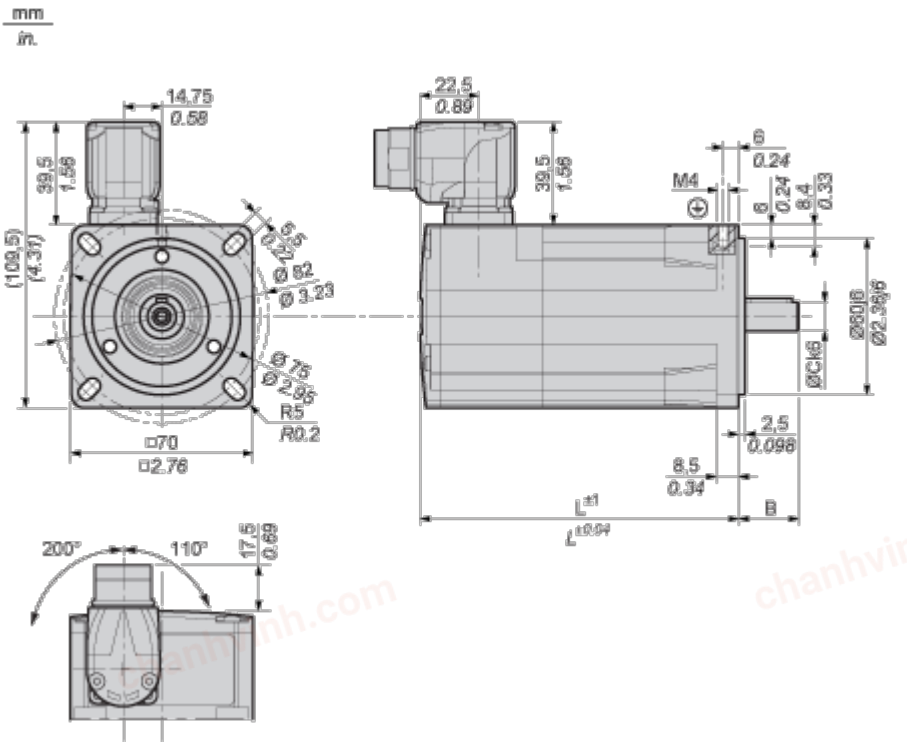
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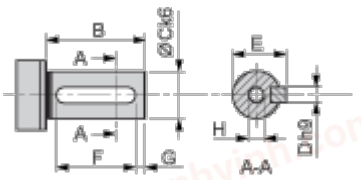
Product data sheet BMP0702R3NA2A

Dimensions Drawings

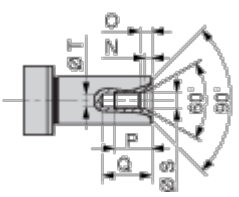
Dimensions



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

Product data sheet BMP0702R3NA2A

	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

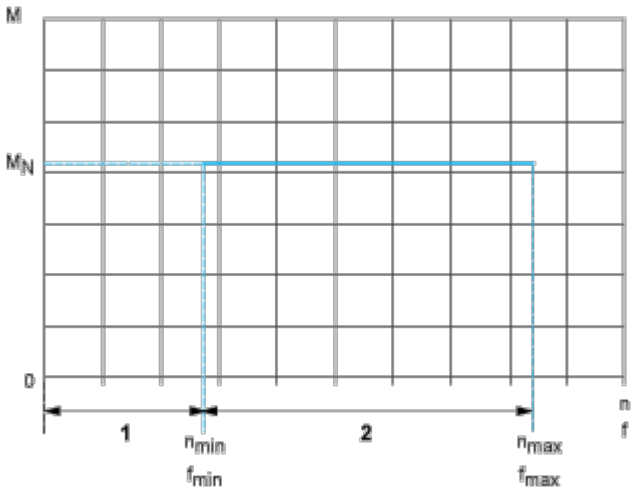
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Performance Curves

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.

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