



**Main**

Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	1100 W with drive ATV32 at 1.1 kW 200 V single phase[RETURN]1100 W with drive ATV32 at 1.5 kW 200 V single phase[RETURN]2000 W with drive ATV32 at 2.2 kW 400 V three phase[RETURN]1100 W with drive ATV320 at 1.1 kW 200 V single phase[RETURN]1100 W with drive ATV320 at 1.5 kW 200 V single phase[RETURN]2000 W with drive ATV320 at 2.2 kW 400 V three phase
Nominal torque	7 N.m with drive ATV32 at 1.1 kW 200 V single phase[RETURN]7 N.m with drive ATV32 at 1.5 kW 200 V single phase[RETURN]6.37 N.m with drive ATV32 at 2.2 kW 400 V three phase[RETURN]7 N.m with drive ATV320 at 1.1 kW 200 V single phase[RETURN]7 N.m with drive ATV320 at 1.5 kW 200 V single phase[RETURN]6.37 N.m with drive ATV320 at 2.2 kW 400 V three phase
Nominal speed	1500 rpm with drive ATV32 at 1.1 kW 200 V single phase 1500 rpm with drive ATV32 at 1.5 kW 200 V single phase 3000 rpm with drive ATV32 at 2.2 kW 400 V three phase 1500 rpm with drive ATV320 at 1.1 kW 200 V single phase 1500 rpm with drive ATV320 at 1.5 kW 200 V single phase 3000 rpm with drive ATV320 at 2.2 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 at 1.1 kW 200 V single phase[RETURN]Variable speed drive ATV32 at 1.5 kW 200 V single phase[RETURN]Variable speed drive ATV32 at 2.2 kW 400 V three phase[RETURN]Variable speed drive ATV320 at 1.1 kW 200...240 V single phase[RETURN]Variable speed drive ATV320 at 1.5 kW 200...240 V single phase[RETURN]Variable speed drive ATV320 at 2.2 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 32 Altivar Machine ATV320
[Us] rated supply voltage	480 V
Network number of phases	Three phase
Maximum current Irms	10.4 A with drive ATV32 at 1.1 kW 200 V single phase 12 A with drive ATV32 at 1.5 kW 200 V single phase 8.3 A with drive ATV32 at 2.2 kW 400 V three phase 10.4 A with drive ATV320 at 1.1 kW 200 V single phase 12 A with drive ATV320 at 1.5 kW 200 V single phase 8.3 A with drive ATV320 at 2.2 kW 400 V three phase
Nominal operating frequency	125 Hz with drive ATV32 at 1.1 kW 200 V single phase 125 Hz with drive ATV32 at 1.5 kW 200 V single phase 250 Hz with drive ATV32 at 2.2 kW 400 V three phase 125 Hz with drive ATV320 at 1.1 kW 200 V single phase 125 Hz with drive ATV320 at 1.5 kW 200 V single phase 250 Hz with drive ATV320 at 2.2 kW 400 V three phase
Minimum operating frequency	13 Hz with drive ATV32 at 1.1 kW 200 V single phase 13 Hz with drive ATV32 at 1.5 kW 200 V single phase 25 Hz with drive ATV32 at 2.2 kW 400 V three phase 13 Hz with drive ATV320 at 1.1 kW 200 V single phase 13 Hz with drive ATV320 at 1.5 kW 200 V single phase 25 Hz with drive ATV320 at 2.2 kW 400 V three phase
Maximum operating frequency	150 Hz with drive ATV32 at 1.1 kW 200 V single phase 150 Hz with drive ATV32 at 1.5 kW 200 V single phase 300 Hz with drive ATV32 at 2.2 kW 400 V three phase 150 Hz with drive ATV320 at 1.1 kW 200 V single phase 150 Hz with drive ATV320 at 1.5 kW 200 V single phase 300 Hz with drive ATV320 at 2.2 kW 400 V three phase
Shaft diameter	24 mm
Shaft length	50 mm
Key width	8 mm
Motor flange size	140 mm
Torque constant	1.55 N.m/A at 40 °C
Number of motor poles	5
Number of motor stacks	1
Rotor inertia	16.46 kg.cm <sup>2</sup>
Stator resistance	0.7 Ohm at 40 °C
Stator inductance	6.23 MH for q-axis winding at 40 °C 5.18 mH for d-axis winding at 40 °C
Maximum radial force Fr	1930 N at 1000 rpm 1530 N at 2000 rpm 1340 N at 3000 rpm
Maximum axial force Fa	0.2 x Fr
Type of cooling	Natural convection
Length	152 mm
Centring collar diameter	130 mm
Centring collar depth	3.5 mm
Number of mounting holes	4
Mounting holes diameter	11 mm
Circle diameter of the mounting holes	165 mm
Net weight	8 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	26.0 cm
Package 1 Width	20.0 cm
Package 1 Length	59.0 cm
Package 1 Weight	9.648 kg
Unit Type of Package 2	P06
Number of Units in Package 2	4

Package 2 Height	77.0 cm
Package 2 Width	80.0 cm
Package 2 Length	60.0 cm
Package 2 Weight	47.092 kg

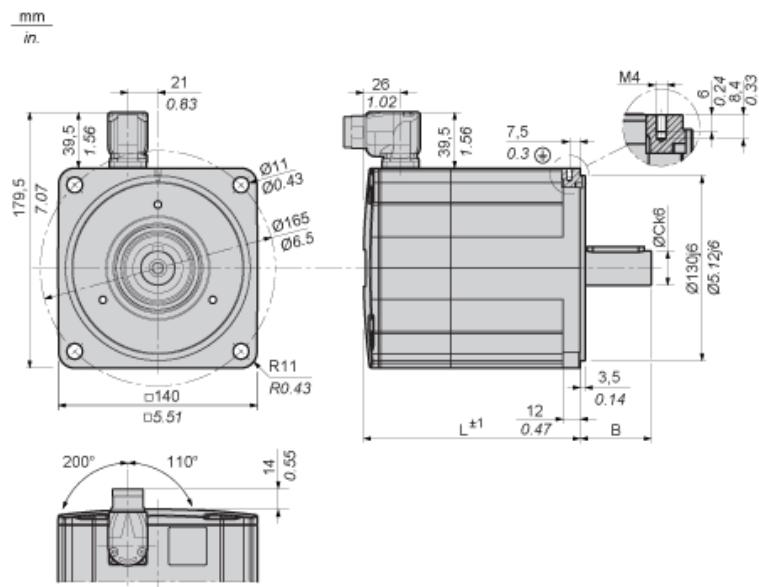
## Offer Sustainability

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	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

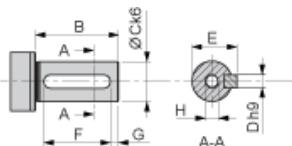
## Contractual warranty

Warranty	18 months
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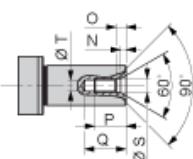
Dimensions



Parallel Key According to DIN 6885 A



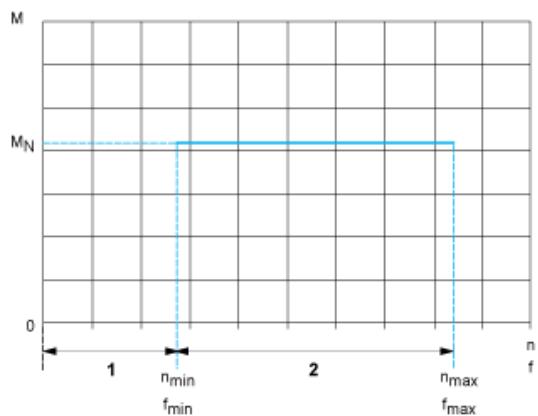
Female Thread of Shaft According to DIN 332-D



L	mm	152
in.	5.98	
B	mm	50
in.	1.97	
C	mm	24
in.	0.94	
D	mm	8
in.	0.31	
E	mm	27
in.	1.06	
F	mm	40
in.	1.57	
G	mm	5
in.	0.20	

H		M8
N	mm	3.3
in.	0.13	
O	mm	6
in.	0.24	
P	mm	19
in.	0.75	
Q	mm	25
in.	0.98	
S	mm	8.4
in.	0.33	
T	mm	6.8
in.	0.27	

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.