

BMP1002F3NA2A

synchronous motor - BMP - 480 VAC - 1.5 kW - IP65 - IEC



Main

Product or component type	Synchronous motor
Device short name	BMP
Maximum mechanical speed	3600 rpm
Nominal output power	1500 W ATV32 1.5 kW 400 V three phase 1500 W ATV320 1.5 kW 400 V three phase
Nominal torque	42.22 Lbf.in (4.77 N.m) ATV32 1.5 kW 400 V three phase 42.22 lbf.in (4.77 N.m) ATV320 1.5 kW 400 V three phase
Nominal speed	3000 rpm ATV32 1.5 kW 400 V three phase 3000 rpm ATV320 1.5 kW 400 V three phase
Product compatibility	Variable speed drive ATV32 1.5 kW 400 V three phase Variable speed drive ATV320 1.5 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	6.2 A ATV32 1.5 kW 400 V three phase 6.2 A ATV320 1.5 kW 400 V three phase
Nominal operating frequency	250 Hz ATV32 1.5 kW 400 V three phase 250 Hz ATV320 1.5 kW 400 V three phase
Minimum operating frequency	25 Hz ATV32 1.5 kW 400 V three phase 25 Hz ATV320 1.5 kW 400 V three phase
Maximum operating frequency	300 Hz ATV32 1.5 kW 400 V three phase 300 Hz ATV320 1.5 kW 400 V three phase
Shaft diameter	0.75 in (19 mm)
Shaft length	1.57 in (40 mm)
Key width	0.24 in (6 mm)
Motor flange size	3.94 in (100 mm)
Torque constant	1.56 N.m/A 104 °F (40 °C)
Number of motor poles	5
Number of motor stacks	2
Rotor inertia	6.28 kg.cm ²
Stator resistance	1.75 Ohm 104 °F (40 °C)
Stator inductance	7.65 mH for q-axis winding 104 °F (40 °C) 6.64 mH for d-axis winding 104 °F (40 °C)
Maximum radial force Fr	990 N 1000 rpm 790 N 2000 rpm 690 N 3000 rpm 620 N 4000 rpm
Maximum axial force Fa	0.2 x Fr

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Type of cooling	Natural convection
Length	6.32 in (160.6 mm)
Centring collar diameter	3.74 in (95 mm)
Centring collar depth	0.14 in (3.5 mm)
Number of mounting holes	4
Mounting holes diameter	0.35 in (9 mm)
Circle diameter of the mounting holes	4.53 in (115 mm)
Net Weight	10.85 lb(US) (4.92 kg)

Ordering and shipping details

Category	18282 - LEXIUM 32 MOTORS
Discount Schedule	PC53
GTIN	03606480564444
Nbr. of units in pkg.	1
Package weight(Lbs)	10.8 lb(US) (4.90 kg)
Returnability	No

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	8.66 in (22 cm)
Package 1 width	7.87 in (20 cm)
Package 1 Length	15.75 in (40 cm)

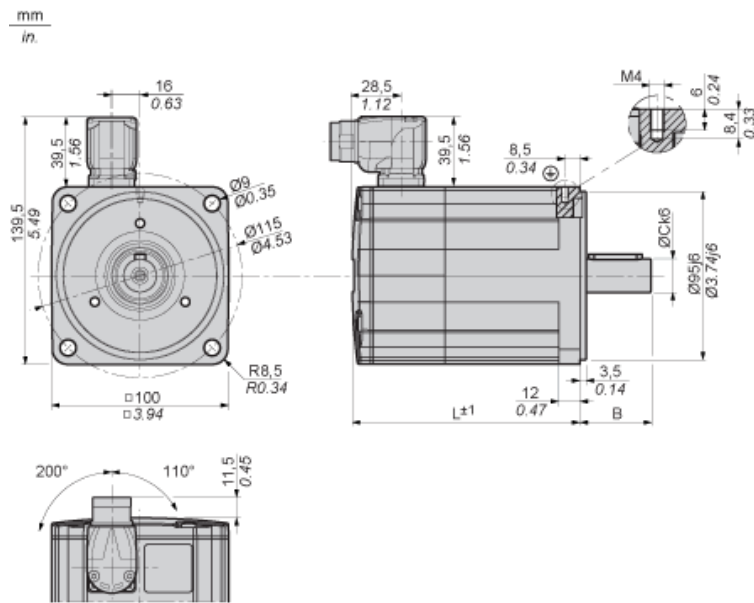
Offer Sustainability

EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
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.

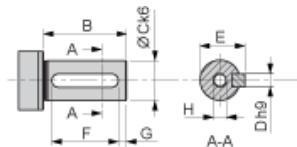
Contractual warranty

Warranty	18 months
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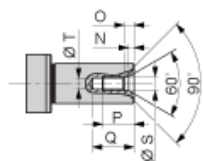
Dimensions



Parallel Key According to DIN 6885 A



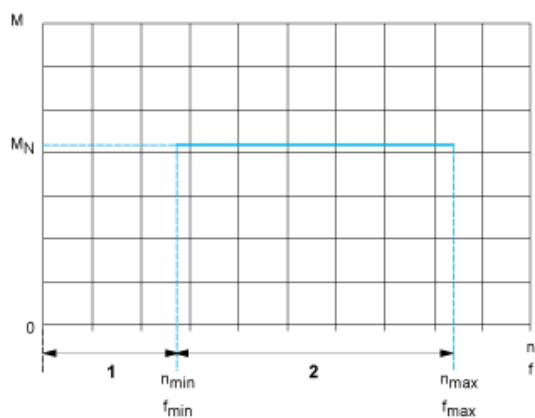
Female Thread of Shaft According to DIN 332-D



L	mm	160.6
in.	6.32	
B	mm	40
in.	1.57	
C	mm	19
in.	0.75	
D	mm	6
in.	0.24	
E	mm	21.5
in.	0.85	
F	mm	30
in.	1.18	
G	mm	5
in.	0.20	

H		M6
N	mm	2.8
in.	0.11	
O	mm	5
in.	0.20	
P	mm	16
in.	0.63	
Q	mm	21
in.	0.83	
S	mm	6.4
in.	0.25	
T	mm	5
in.	0.20	

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.