

7.5° 7.5 Watts 2 phases Part number 82920001



- 48 steps/revolution (7.5°)
- Absorbed power : 7.5 W
- 2 or 4 phase versions available

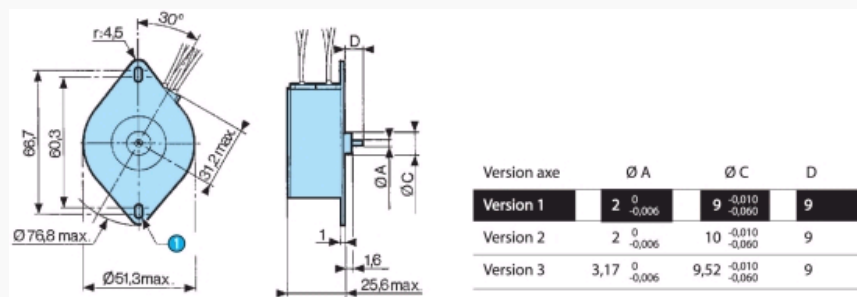
Part numbers

	Type	Type	Number of phases	Electronic controller used	Resistance per phase (ö)	Inductance per phase (mH)	Current per phase (A)	Voltage at motor terminals (V)
82 920 001	2 phases	82 920 0 2		Bipolar	10.7	24	0.59	6.3

Specifications

Absorbed power (W)	7,5
Holding torque (mNm)	70
Step angle (°)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm ²)	18,8
Max. detent torque (mNm)	6
Max. coil temperature (°C)	120
Storage temperature (°C)	-40 →+80
Thermal resistance of coil - ambient air (°C/W)	9,3
Insulation resistance (at 500 Vcc) (MΩ) following NFC 51200 standard	> 10 ³
Insulation voltage (50 Hz, 1 minute) (V) following NFC 51200 standard	> 600
Wires length (mm)	250
Weight (g)	210
Protection rating	IP40

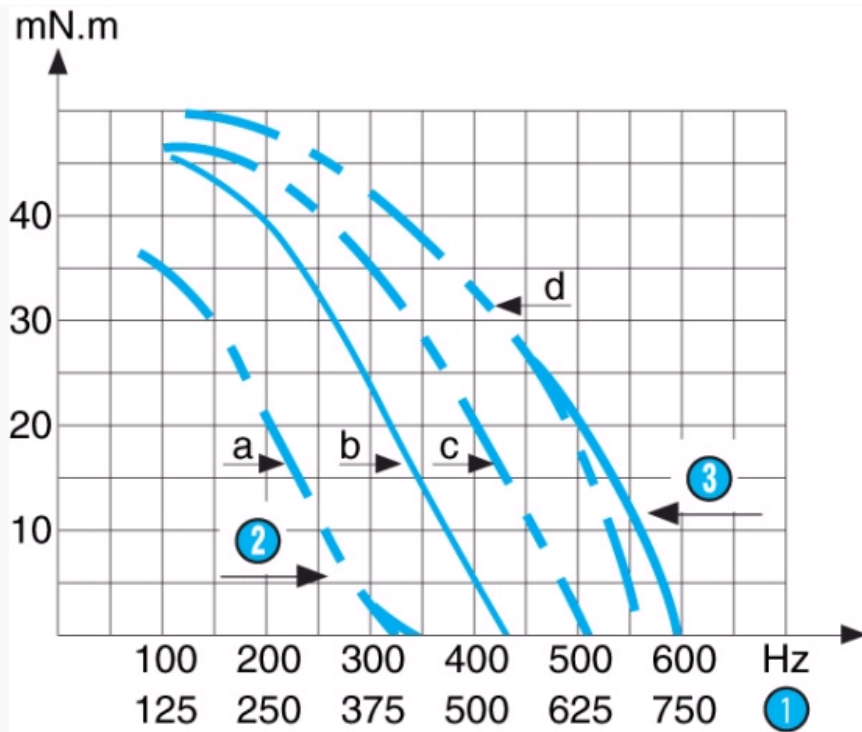
Dimensions (mm)



N°	Legend
1	2 oblong fixing holes : wide 3.5

Curves

2 phases

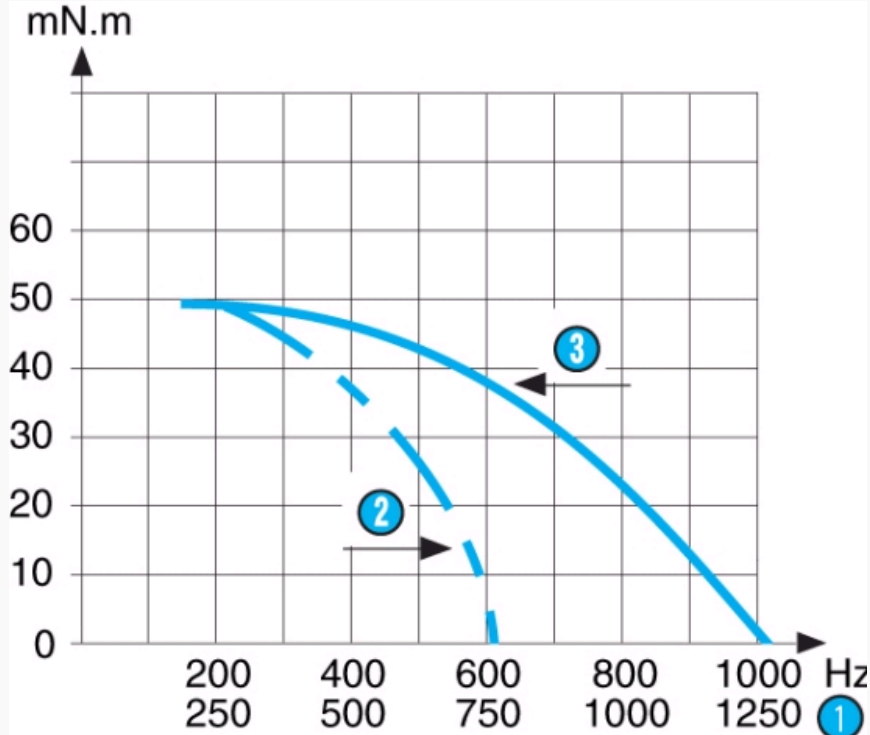


Inertia of measuring chain : 2.2 g.cm² a = constant voltage controller with Rs (resistance in series) = 0 b = constant voltage controller with Rs (resistance in series) = R motor c = constant voltage controller with Rs (resistance in series) = 2R motor d = constant voltage controller with Rs (resistance in series) = 3R motor The measurements are made with full stepping, 2-phases energised.

N°	Legend
①	RPM
②	Max. stopping-starting curves
③	Max. operating curves

Curves

2 phases - Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 10.7 Ω. Holding torque 70 mN.m. Current per phase 0.59 A



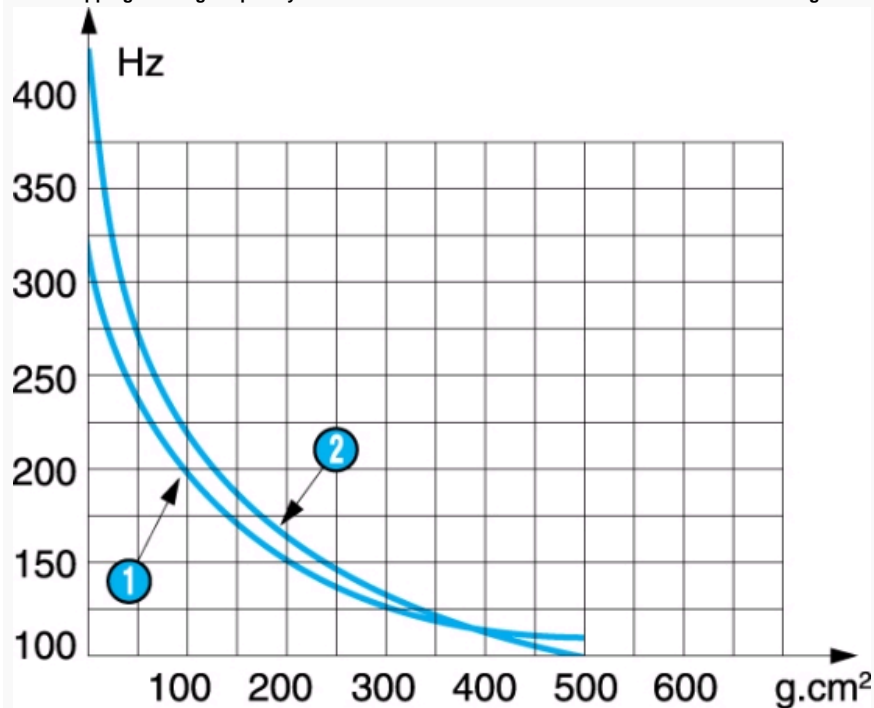
Holding torque 70 mN.m Current per phase 0.59 A

N°	Legend
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①	RPM
②	Max. stopping-starting curves
③	Max. operating curves

Curves

Max. stopping-starting frequency curves as a function of the external inertia load at zero antagonistic torque. Tests at constant U.



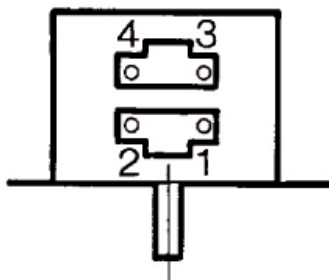
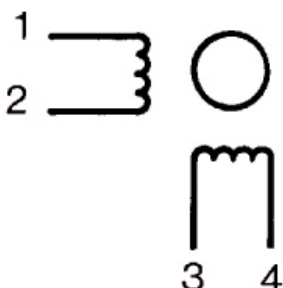
N.B. Measurement conditions : Tam = 25 °C, motor cold

N°	Legend
①	2 phases
②	4 phases

Connections

2 phases

	1	2	3	4
①	-	+	-	+
②	-	+	+	-
③	+	-	+	-
④	+	-	-	+
⑤	-	+	-	+



Energisation sequence for clockwise rotation : (viewed shaft end)

N°	Legend
1	Step

Product adaptations



- Special output shafts
- Special supply voltages
- Special cable lengths
- Special connectors