

7.5° 7.5 Watts 4 phases Part number made to order



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

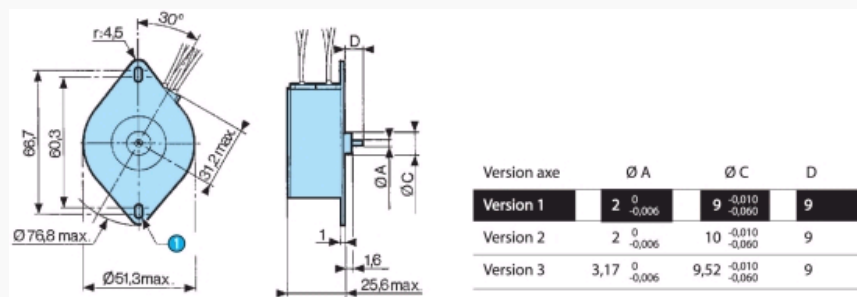
Part numbers

	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)
82 920 012	4 phases	82 920 0 4		Unipolar	46	48	0,28	12,9

Specifications

Absorbed power (W)	7,5
Holding torque (mNm)	57
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	IP 40

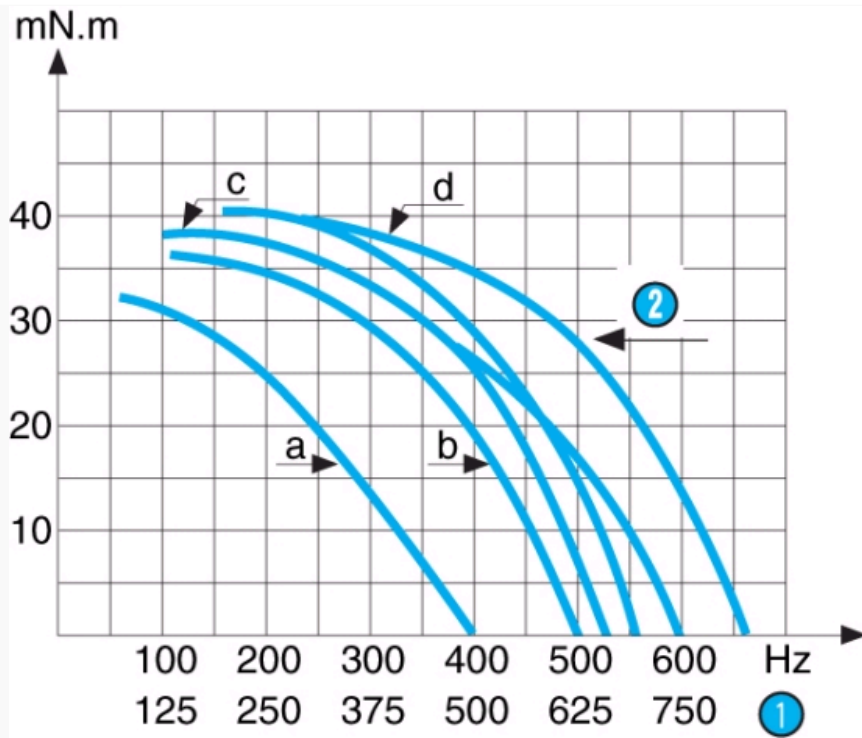
Dimensions (mm)



N°	Legend
①	2 oblong fixing holes : wide 3.5

Curves

4 phases

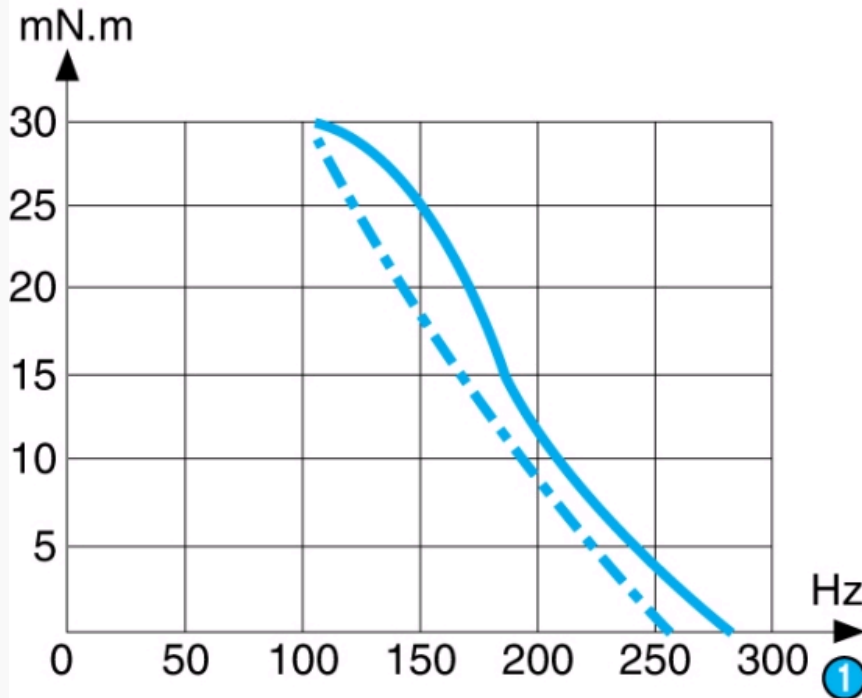


Inertia of measuring chain : 2,2 g.cm² a = constant voltage controller with R_s (resistance in series) = 0 b = constant voltage controller with R_s (resistance in series) = R motor c = constant voltage controller with R_s (resistance in series) = 2R motor d = constant voltage controller with R_s (resistance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

N°	Legend
①	RPM
②	Max. operating curves

Curves

4 phase - 46 Ω - Constant voltage - Curve produced with card 84 854 405

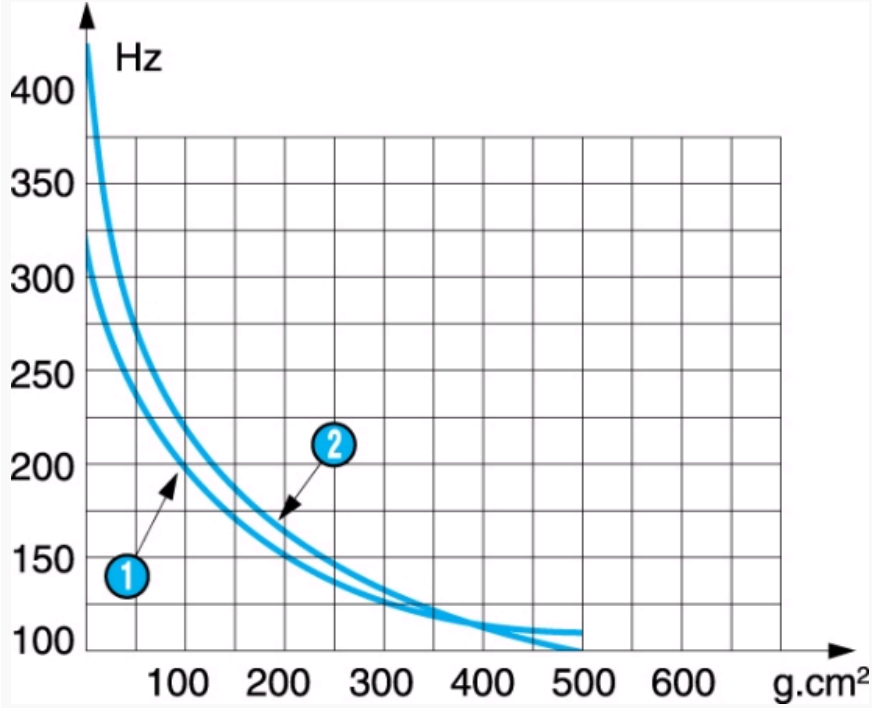


Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 10.7 ohms. Holding torque 70 mN.m Current per phase 0.59 A

N°	Legend
①	RPM

Curves

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



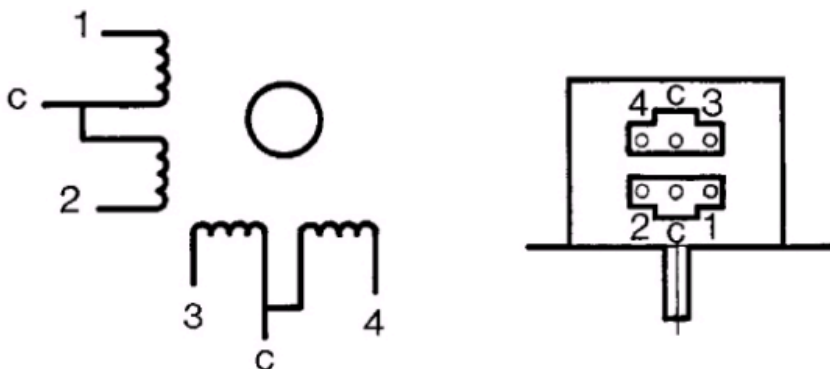
N.B. Measurement conditions : Tam = 25 °C, motor cold

N°	Legend
1	2 phases
2	4 phases

Connections

4 phases

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



Energisation sequence for clockwise rotation : 2 phases energised (viewed shaft end, front forward) Commons connected to positive.

N°	Legend
1	Step

Product adaptations

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