

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

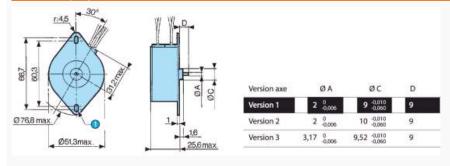
Part numbers

		Туре	Туре	phases	Electronic controller used	Resistance per phase (ö)	(mH)	(A)	Voltage at motor terminals (V)
	82 920 012	4 phases	82 920 0	4	Unipolar	46	48	0,28	12,9

Specifications

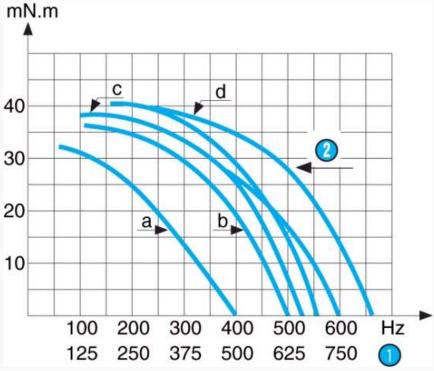
Absorbed power (W)	7,5
Holding torque (mNm)	57
Step angle (°)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm ²)	18,8
Max. detent torque (mNm)	6
Max. coil temperature (°C)	120
Storage temperature (⁰ C)	-40 →+80
Thermal resistance of coil - ambient air (°C/W)	9,3
Insulation resistance (at 500 Vcc) (M Ω) 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)



ı	No.	Legend
2 oblong fixing holes : wide 3.5		2 oblong fixing holes : wide 3.5

4 phases

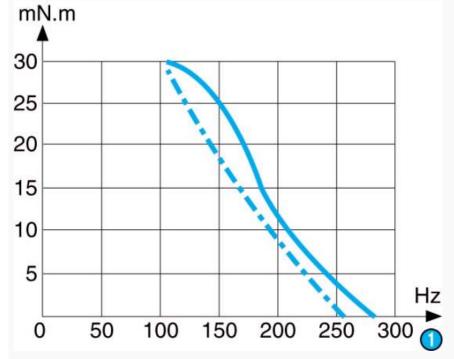


Inertia of measuring chain: 2,2 g.cm2 $a = constant \ voltage \ controller \ with \ Rs \ (resistance in series) = 0 \ b = constant \ voltage \ controller \ with \ Rs \ (resistance in series) = R \ motor \ c = constant \ voltage \ controller \ with \ Rs \ (resistance in series) = 3R \ motor \ The measurements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

Nº	Legend
0	RPM
②	Max. operating curves

Curves

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



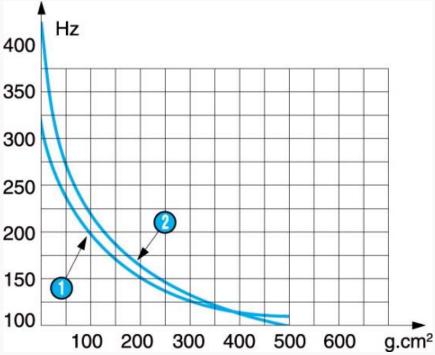
Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 10.7 ohms. Holding torque 70 mN.m Current per phase 0.59 A

N°	Legend
•	RPM

02/11/2015 www.crouzet.com

Curves

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



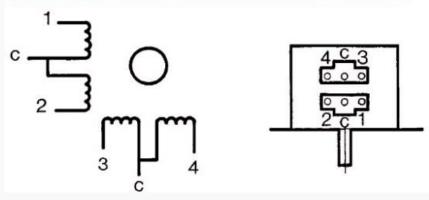
N.B. Measurement conditions : Tam = 25 °C, motor cold

N°	Legend
•	2 phases
②	4 phases

Connections

4 phases

		1	2	3	4
	1	-		-	
	2	•			-
0	3		-		19 <u>4</u>
	4		-	:#:	
	5			-	



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

02/11/2015 www.crouzet.com

Nº	Legend
0	Step

Product adaptations



- Special output shaftsSpecial supply voltagesSpecial cable lengthsSpecial connectors