

7.5° 5 Watts 2 phases Part number 82910001



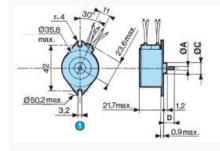
- 48 steps/revolution (7.5°)Absorbed power : 5 W
- 2 or 4 phase versions available

Part numbers

T		Electronic controller wood	Description .
Туре	Туре	Electronic controller used	Bearings
82 910 001 2 phases	82 910 0	Bipolar	Sintered bronze

Resistance per phase (Ω)	9
Inductance per phase (mH)	12
Current per phase (A)	0,52
Holding torque (mNm)	25
Voltage at motor terminals (V)	4,7
Absorbed power (W)	5
Step angle (°)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm ²)	4,9
Max. detent torque (mNm)	3
Max. coil temperature (°C)	120
Storage temperature (⁰ C)	-40 →+80
Thermal resistance of coil - ambient air (°C/W)	14
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)	90
Protection rating	IP 40

Dimensions (mm)

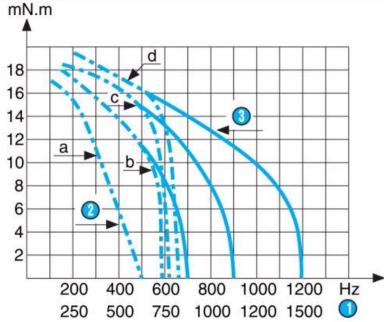


Axe version		ØA		ØC	D
Version 1	2	-0,002 -0,006	9	-0,010 -0,060	9
Version 2	2	-0,002 -0,006	10	-0,010 -0,060	9
Version 3	3,17	0-0,006	9,52	-0,010 -0,060	9

No	Legend
0	2 fixing holes Ø 3.2

2 phases

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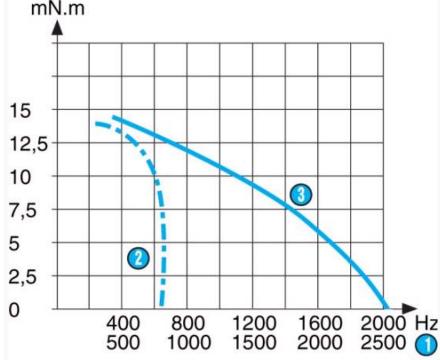


Inertia of measuring chain: 1,5 g.cm2 a = constant voltage controller with Rs (resistance in series) = 0 b = constant voltage controller with Rs (resistance in series) = R motor c = constant voltage controller with Rs (resistance in series) = 3R motor The measurements are made with full stepping, 2-phases energised.

No	Legend Legend	
1	RPM	
②	lax. stopping-starting curves	
③	Max. operating curves	

Curves

Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 12.9 Ω



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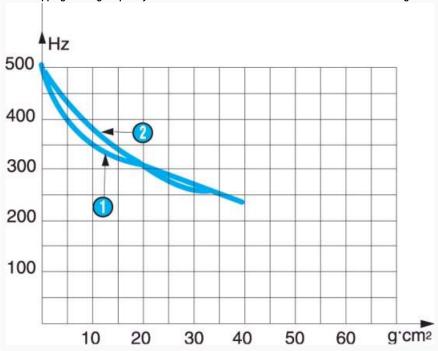
N°	Legend	
0	RPM	

Max. stopping-starting curves

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



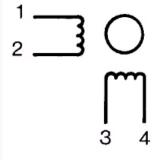
N.B. Measurement conditions : Tam = 25 °C, motor cold

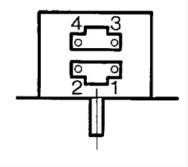
N°	Legend
0	2 phases
②	4 phases

Connections

2 phases

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





Energisation sequence for clockwise rotation (viewed shaft end)

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No	Legend
0	Step

Product adaptations



- Special output shaftsSpecial supply voltagesSpecial cable lengthsSpecial connectors