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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 7.5° 5 Watts 2 phases Part number 82910001



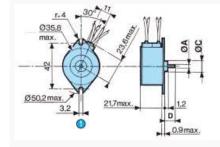
- 48 steps/revolution (7.5°)Absorbed power : 5 W
- 2 or 4 phase versions available

## Part numbers

Туре	Туре	Electronic controller used	Bearings
<b>82 910 001</b> 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 (gcm²)	4,9
Max. detent torque (mNm)	3
Max. coil temperature (°C)	120
Storage temperature ( <sup>0</sup> C)	-40 →+80
Thermal resistance of coil - ambient air (°C/W)	14
Insulation resistance (at 500 Vcc) (M $\Omega$ ) following NFC 51200 standard	> 10 <sup>3</sup>
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)

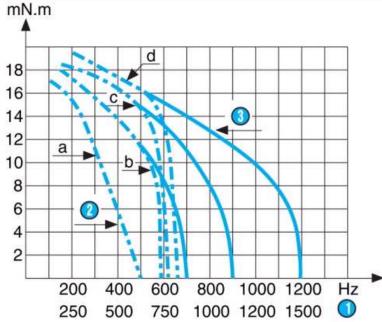


Axe version		ØA		ØC	D
Version 1	2	-0,002 -0,006	9	-0,010 -0,060	9
Version 2	2	-0,002 -0,006	10	-0,010 -0,060	9
Version 3	3,17	0 -0,006	9,52	-0,010 -0,060	9

No	Legend
0	2 fixing holes Ø 3.2

2 phases

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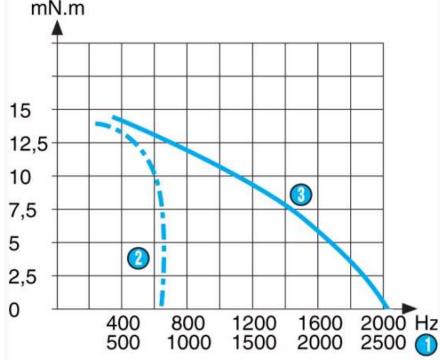


Inertia of measuring chain: 1,5 g.cm2 a = constant voltage controller with Rs (resistance in series) = 0 b = constant voltage controller with Rs (resistance in series) = R motor c = constant voltage controller with Rs (resistance in series) = 3R motor The measurements are made with full stepping, 2-phases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

No	Legend
1	RPM
<b>②</b>	Max. stopping-starting curves
<b>③</b>	Max. operating curves

### Curves

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



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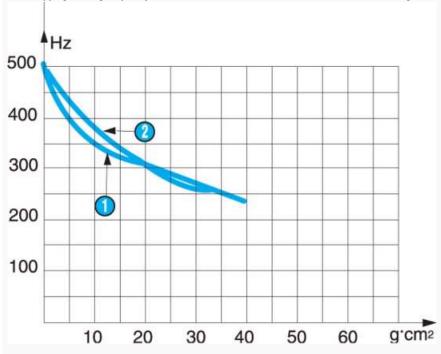
■ RPM	

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



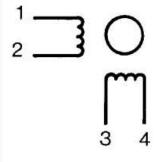
N.B. Measurement conditions : Tam = 25 °C, motor cold

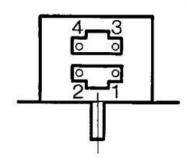
Nº	Legend
0	2 phases
<b>②</b>	4 phases

### Connections

2 phases

		1	2	3	4
	1	· <del>-</del>	+	-	+
19000	2	-	+	+	-
	3	+	-	+	
	4	+	-	-	+
	5	11#	+	-	+





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