

7.5° 5 Watts 2 phases Part number 82910001





- 2 or 4 phase versions available

Part numbers

Туре	Туре	Electronic controller used	Bearings
82 910 001 2 phases	82 910 0	Bipolar	Sintered bronze

Specifications

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 (^o)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm ²)	4,9
Max. detent torque (mNm)	3
Max. coil temperature (^o 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)

035.8 max. 0502max.	
3,2 21,7max.	0.9 max.

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

N°	Legend
0	2 fixing holes Ø 3.2

Curves

2 phases





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
0	Max. 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 $m \Omega$



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N°	Legend	
0	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

No	Legend
0	2 phases
0	4 phases



Energisation sequence for clockwise rotation (viewed shaft end)

Nº	Legend
0	Step

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