

7.5° 12.5 Watts 2 phases Part number made to order



- 48 steps/revolution (7.5°)
- Absorbed power : 12.5 W
- 2 or 4 phase versions available

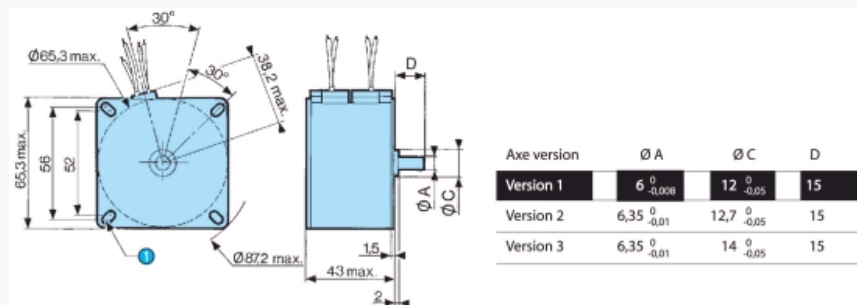
Part numbers

	Type	Type	Number of phases	Electronic controller used	Resistance per phase (Ω)	Inductance per phase (mH)	Current per phase (A)	Voltage at motor terminals (V)
82 940 002	2 phases	82 940 02		Bipolar	26.7	93	0,48	12,7

Specifications

Absorbed power (W)	12,5
Holding torque (mNm)	300
Step angle (°)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm ²)	180
Max. detent torque (mNm)	16
Max. coil temperature (°C)	120
Storage temperature (°C)	-40 → +80
Thermal resistance of coil - ambient air (°C/W)	5,6
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)	540
Protection rating	IP40

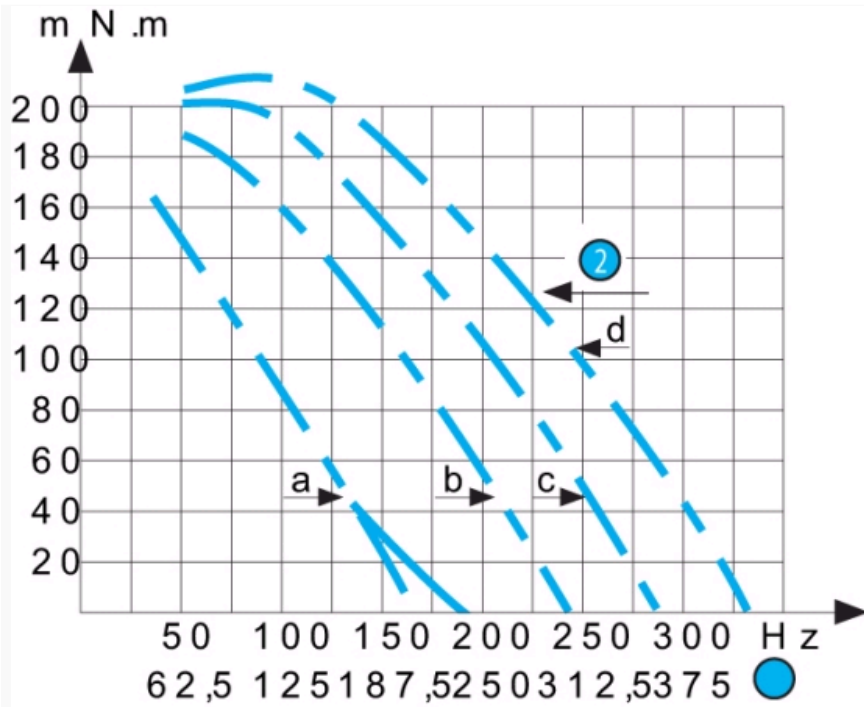
Dimensions (mm)



N°	Legend
①	4 oblong fixing holes 4.2 wide

Curves

2 phases

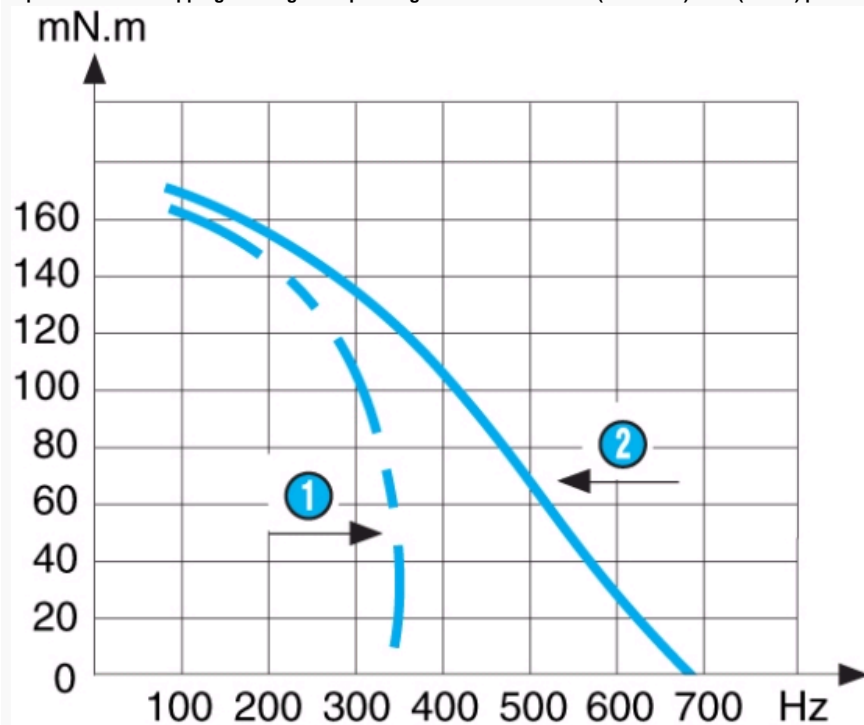


Inertia of measuring chain : 20.5 g.cm² a = constant voltage controller with R_s (resistance in series) = 0 b = constant voltage controller with R_s (resistance in series) = R motor c = constant voltage controller with R_s (resistance in series) = 2R motor d = constant voltage controller with R_s (resistance in series) = 3R motor The measurements are made with full stepping, 2-phases energised.

N°	Legend
1	RPM
2	Max. stopping-starting curves

Curves

2 phases - Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 5.2 Ω. Holding torque 240 mN.m. Current per phase 0.55 A



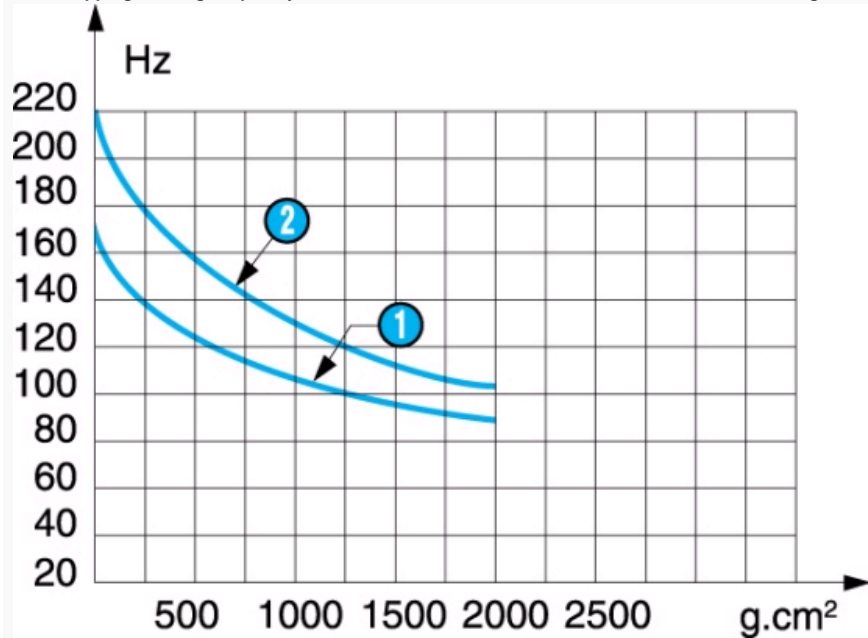
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N°	Legend
1	Max. stopping-starting curves

	Max. operating curves
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Curves

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



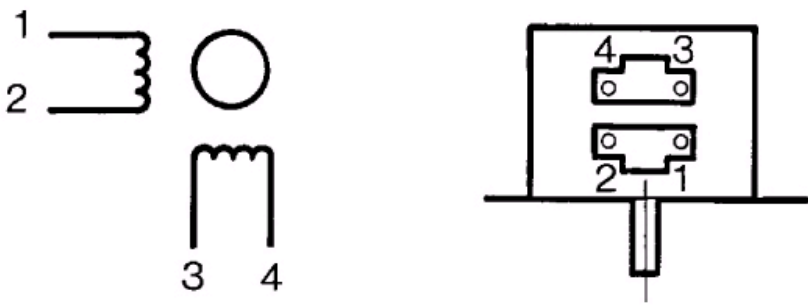
N.B. Measurement conditions : Tam = 25 °C, motor cold

N°	Legend
①	2 phases
②	4 phases

Connections

2 phases

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



Energisation sequence for clockwise rotation : (viewed shaft end)

N°	Legend



Product adaptations



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