

## 7.5° 12.5 Watts 4 phases Part number 82940015



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

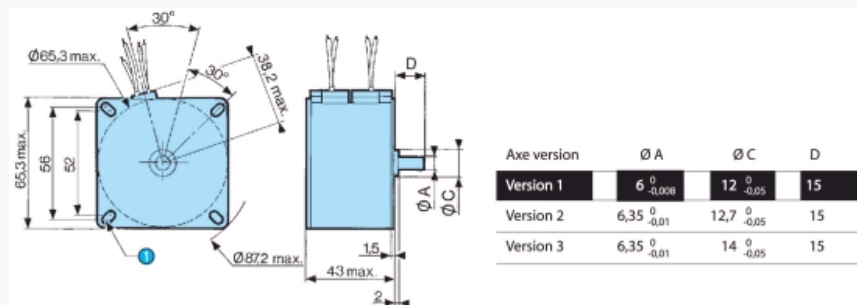
### Part numbers

	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)
<b>82 940 015</b>	4 phases	82 940 0 4		Unipolar	7.4	11	0,9	6,7

### Specifications

Absorbed power (W)	12,5
Holding torque (mNm)	240
Step angle (°)	7,5
Positioning accuracy (%)	5
Rotor inertia (gcm <sup>2</sup> )	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 <sup>3</sup>
Insulation voltage (50 Hz, 1 minute) (V) following NFC 51200 standard	> 600
Wires length (mm)	250
Weight (g)	540
Protection rating	IP 40

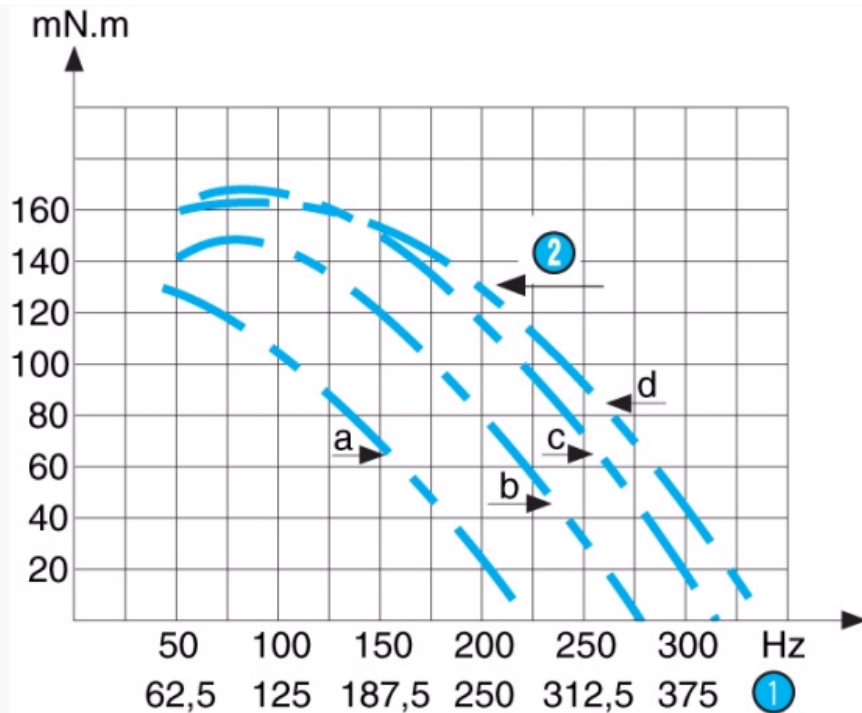
### Dimensions (mm)



N°	Legend
①	4 oblong fixing holes 4.2 wide

### Curves

4 phases

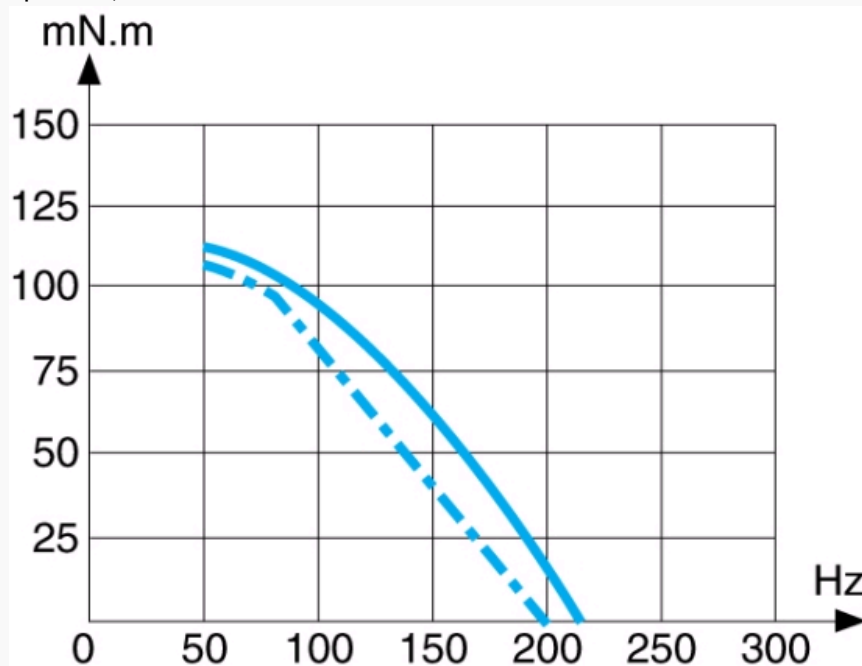


Inertia of measuring chain : 20.5 g.cm<sup>2</sup> a = constant voltage controller with Rs (resistance in series) = 0 b = constant voltage controller with Rs (resistance in series) = R motor c = constant voltage controller with Rs (resistance in series) = 2R motor d = constant voltage controller with Rs (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

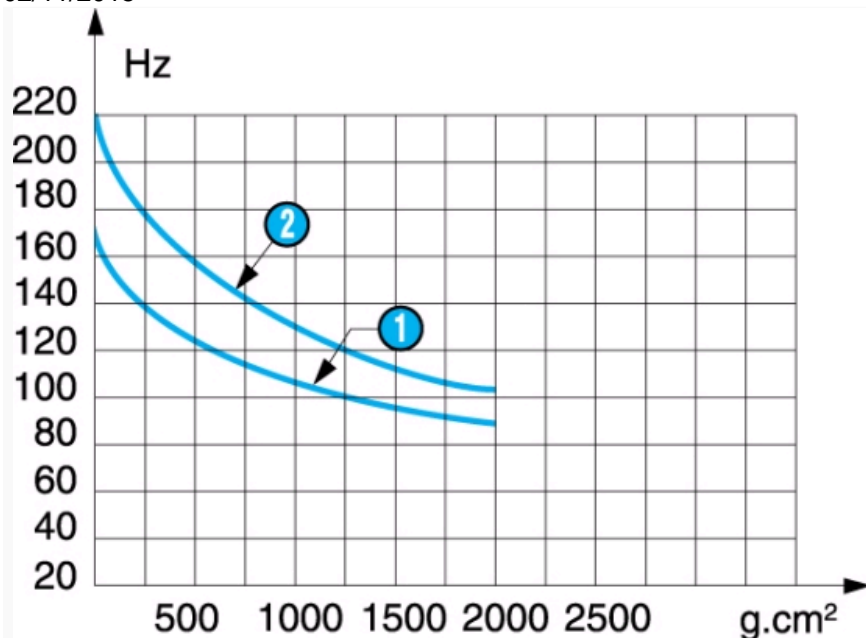
4 phases - 7,4 Ω



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

Curves

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



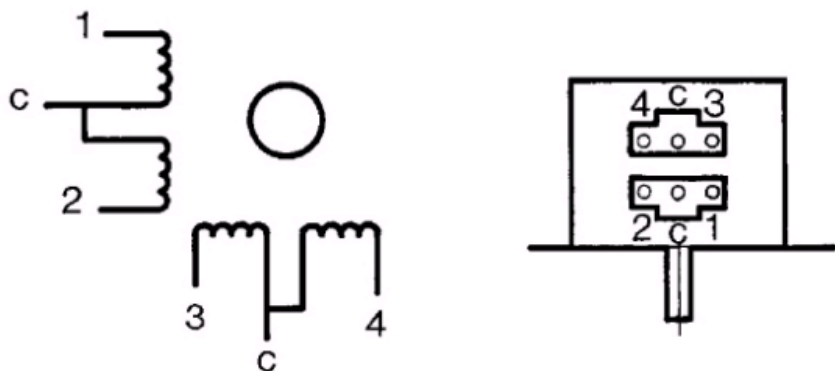
N.B. Measurement conditions : Tam = 25 °C, motor cold

N°	Legend
1	2 phases
2	4 phases

**Connections**

4 phases

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



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

N°	Legend
1	Step

Product adaptations



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