mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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!



Contact us

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7.5° 10 Watts 4 phases Part number made to order



- 48 steps/revolution (7.5°)
- Absorbed power : 10 W
- 2 or 4 phase versions available

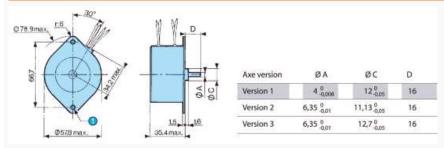
Part numbers

| | Туре | Туре | | Electronic controller used | Resistance per phase (ö) | Inductance per phase (mH) | Current per phase (A) | Voltage at motor terminals (V) |
|------------|-------------|----------|---|-------------------------------|-----------------------------|------------------------------|--------------------------|-----------------------------------|
| 82 930 015 | 4 phases | 82 930 0 | 4 | Unipolar | 22.3 | 47 | 0,39 | 12,5 |

Specifications

| Absorbed power (W) | 10 |
|---|-------------------|
| Holding torque (mNm) | 155 |
| Step angle (^o) | 7,5 |
| Positioning accuracy (%) | 5 |
| Rotor inertia (gcm ²) | 84 |
| Max. detent torque (mNm) | 12 |
| Max. coil temperature (°C) | 120 |
| Storage temperature (⁰ C) | -40 →+80 |
| Thermal resistance of coil - ambient air (°C/W) | 7 |
| 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) | 340 |
| Protection rating | IP 40 |

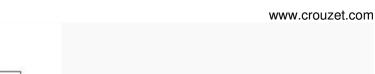
Dimensions (mm)

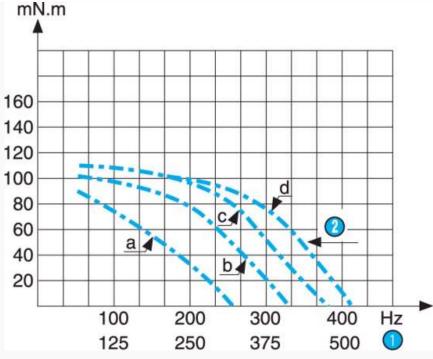


| N° | Legend |
|----|----------------------|
| 1 | 2 Fixing holes Ø 4.4 |

Curves

4 phases



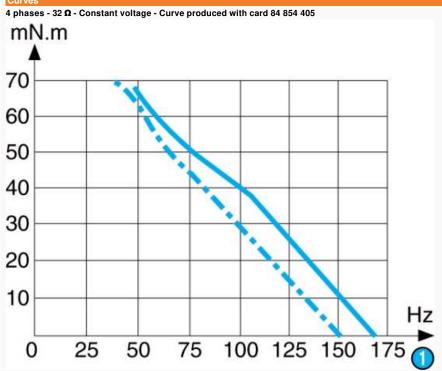


Inertia of measuring chain : 3.4 g.cm2 a = constant voltage controller with Rs (resistance in series) = 0 b = constant voltage controller with Rs (resistance in series) = R motor c = constant voltage controller with Rs (resistance in series) = 3R motor The measurements are made with full stepping, 2-phases energised.

| Nº | Legend | |
|----|-------------------------------|--|
| • | RPM | |
| 0 | Max. stopping-starting curves | |

Curves

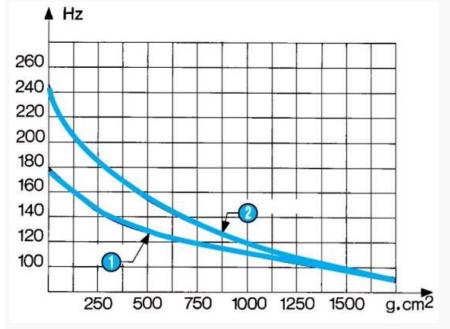
02/11/2015



Max. stopping-starting and operating curves at I constant (PBL 3717) for 2 (motor) phases 9 ohms. Holding torque 150 mN.m Current per phase 0.53 A

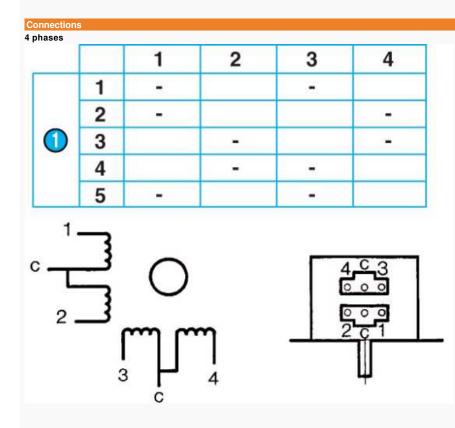
| Nº | Legend | |
|----|--------|--|
| 0 | RPM | |

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 |
| 0 | 4 phases |



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

| N° | Legend | |
|----|--------|--|
| 0 | Step | |

Product adaptations

Special output shafts
Special supply voltages
Special cable lengths
Special connectors