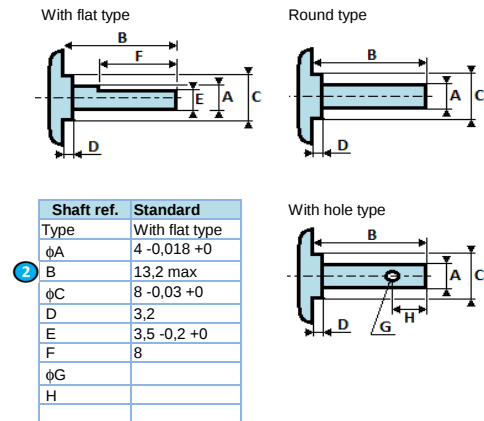
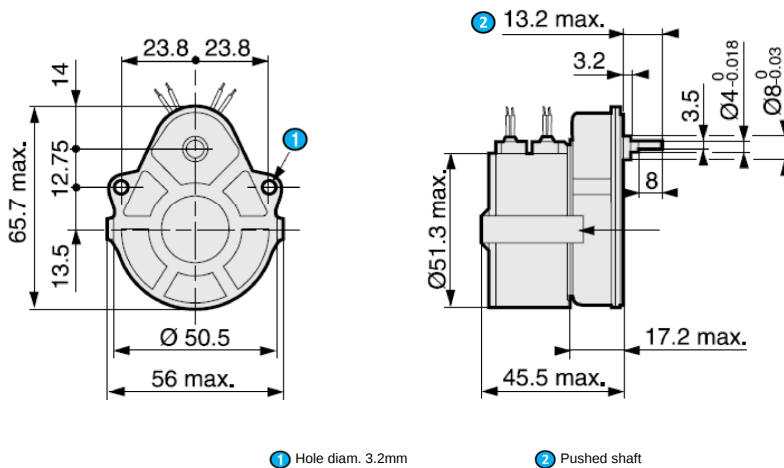


# Stepper gearmotor Data sheet

82 924 036  
ratio 60

Series  
**829240**



## Product

|            |                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------|
| Code       | 82 924 036                                                                                            |
| Family     | 82924                                                                                                 |
| Type       | Stepper gearmotor                                                                                     |
| Definition | Motor 82920 1,7W 500 rpm nominal 7,5 °/t 48 step/t + Gearbox Ovoide ratio 60 2 phases 10,7 Ohms/phase |

## General characteristics

| Motor characteristics (1)                             |                   |  |      |
|-------------------------------------------------------|-------------------|--|------|
| Motor type                                            | 829200            |  |      |
| Number of phases                                      |                   |  | 2    |
| Input power                                           | W                 |  | 7,5  |
| Phase resistor                                        | Ohm               |  | 10,7 |
| Phase inductance                                      | Mh                |  | 24   |
| Phase current                                         | A                 |  | 0,59 |
| Maintain torque                                       | mNm               |  | 70   |
| Voltage per phase                                     | Vcc               |  | 6,3  |
| Step angle                                            | deg               |  | 7,5  |
| Step precision                                        | %                 |  | 5    |
| Rotor inertia                                         | g.cm <sup>2</sup> |  | 18,8 |
| Max. detent torque                                    | mNm               |  | 6    |
| Weight                                                | g                 |  | 210  |
| Output leads                                          |                   |  |      |
| UL style 1569 105°C 300V - 4 leads AWG24 250 mm +- 10 |                   |  |      |

| Gearmotor characteristics (1) (2) |                | A      | B          | C      | D    |
|-----------------------------------|----------------|--------|------------|--------|------|
| Additional resistor /phase        | Ohm            | 0      | 10,7       | 21,4   | 32,1 |
| Voltage (phase + add. resistor)   | Vcc            | 6,3    | 12,6       | 18,9   | 25,2 |
| Max. output power                 | W              | 0,51   | 0,88       | 1,18   | 1,48 |
| Speed at max. output power        | rpm            | 3,6    | 5,2        | 6,3    | 7,8  |
| Torque at max. output power       | Nm             | 1,34   | 1,67       | 1,80   | 1,82 |
| Max. current                      | A              | 0,59   |            |        |      |
| Weight                            | g              | 140    |            |        |      |
| Noise level                       | dBA            | 35     |            |        |      |
| Motor fixing on gearbox           |                | ✓ Clip |            | Screws |      |
| Miscellaneous                     |                |        |            |        |      |
| Dielectric (1s/2mA/50Hz)          | CEI60335       | Vac    | 600        |        |      |
| Motor insulation                  | CEI60085       | class  | B          |        |      |
| Degree of protection              | CEI60529       | IP     | 40         |        |      |
| Temperature range                 | CEI60068-2-1/2 | °C     | -30 -> +70 |        |      |
| Storage temperature               |                | °C     | -40 -> +80 |        |      |
| Approvals                         |                |        |            |        |      |
| ROHS                              | 2011/65/UE     | ✓      |            |        |      |
| EC                                | 2014/30/UE     | ✓      |            |        |      |

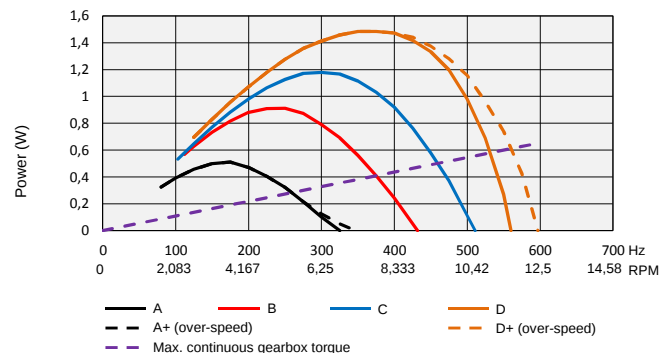
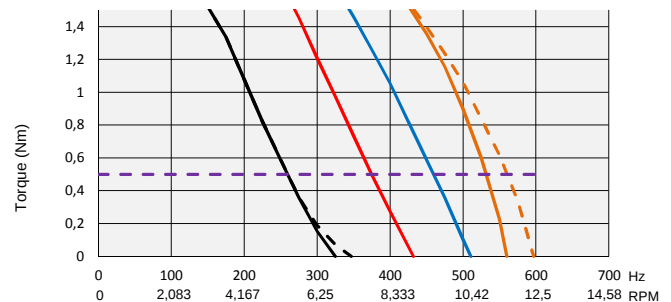
| Notes                                                                                                 |  |
|-------------------------------------------------------------------------------------------------------|--|
| Values without tolerance, are average production values.                                              |  |
| (1) Cold motor, 20 ° C ambient temperature, full speed                                                |  |
| (2) Without taking in count the torque gearbox limits, check gearbox characteristics                  |  |
| (3) Continuously rated torque, zero radial and axial loads                                            |  |
| (4) Max torque for continuous operation at 20 ° C, decrease this value for higher ambient temperature |  |

## Command sequence

### Drive sequence for Clock Wise rotation

| Step | 1 | 2 | 3 | 4 |
|------|---|---|---|---|
| 1    | - | + | - | + |
| 2    | - | + | + | - |
| 3    | + | - | + | - |
| 4    | + | - | - | + |
| 5    | - | + | - | + |

| Gearbox Characteristics                 |        |          |
|-----------------------------------------|--------|----------|
| Type                                    | Ovoide | 81021    |
| ratio                                   |        | 60       |
| Shaft                                   |        | standard |
| Front bearing                           |        | Brass    |
| Continuous max. torque                  | Nm     | 0,5      |
| Max. Radial force (6mm from front face) | N      | 80       |
| Max. axial force (5)                    | N      | 10       |
| Weight                                  | g      | 275      |



Specifications subject to change without notice. Updated 15/09/2016

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