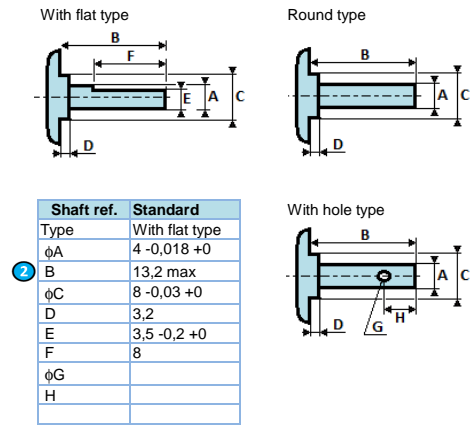
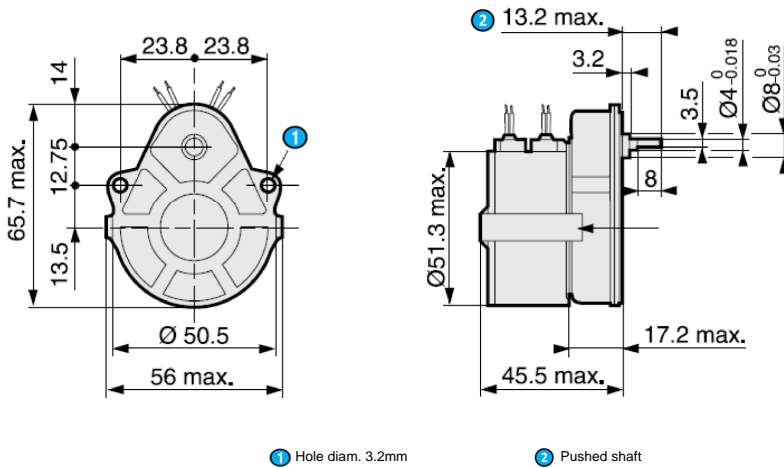


Stepper gearmotor Data sheet

82 924 031
ratio 25 - 4 phases

Series
829240



Product

Code	82 924 031
Family	82924
Type	Stepper gearmotor
Definition	Motor 82920 1,7W 500 rpm nominal 7,5 °/t 48 step/t + Gearbox Ovoide ratio 25 4 phases 46 Ohms/phase

General characteristics

Motor characteristics (1)	
Motor type	829200
Number of phases	4
Input power	W 7,5
Phase resistor	Ohm 46
Phase inductance	mH 24
Phase current	A 0,28
Maintain torque	mNm 70
Voltage per phase	Vcc 12,9
Step angle	deg 7,5
Step precision	% 5
Rotor inertia	g.cm ² 18,8
Max. detent torque	mNm 6
Weight	g 210
Output leads	
UL style 1569 105°C 300V - 6 leads AWG24	250 mm +- 10

Gearmotor characteristics (1) (2)		A	B	C	D
Additional resistor /phase	Ohm	0	46	92	138
Voltage (phase + add. resistor)	Vcc	12,9	25,8	38,7	51,6
Max. output power	W	0,55	0,99	1,17	1,30
Speed at max. output power	rpm	11,3	16,3	18,8	18,8
Torque at max. output power	Nm	0,47	0,58	0,59	0,66
Max. current	A		0,28		
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		25
Shaft		standard
Front bearing		brass
Continuous max. torque	Nm	0,5
Max. Radial force (6mm from front face)	N	80
Max. axial force	N	10
Weight	g	275

