

Your configuration

Part number*: B72DB9F4DC02

Consists of:

Motor - DCX22S GB KL 24V
Planetary gearhead - GPX22 C 326:1

maxon motor

driven by precision

maxon motor worldwide

http://www.maxonmotor.com/maxon/view/content/contact_page

E-Mail: e-shop@maxonmotor.com

Internet: www.maxonmotor.com

Total price	CHF 299.80	1-4 Pieces
	CHF 250.80	5-19 Pieces
	CHF 211.40	20-49 Pieces

After an order is placed at the e-shop, the product is manufactured in Switzerland and shipped from the factory within 11 days.

General Terms and Conditions: http://www.maxonmotor.com/maxon/view/content/terms_and_conditions_page



Your configuration can be viewed here:

<http://www.maxonmotor.com/maxon/view/configurator/?ConfigID=B72DB9F4DC02>

*If the link doesn't work, you can open your configuration with the part number from the catalog.

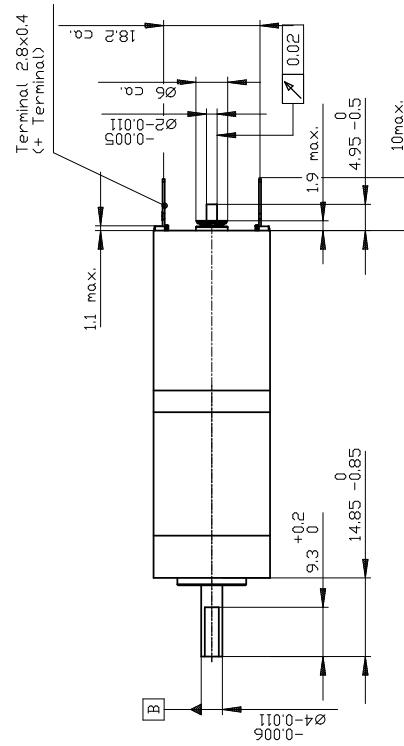
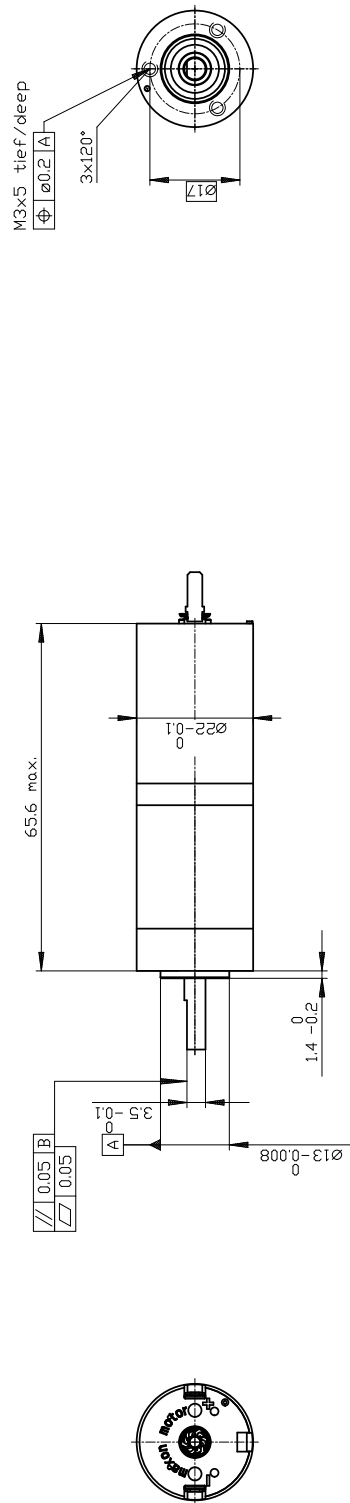
Attachments / CAD files

Please double click with left mouse button on a pushpin symbol to open a file. You could also save a file when you click the symbol with the right mouse button.

B72DB9F4DC02.stp (STP AP 214)

Motor - DCX22S GB KL 24V
Planetary gearhead - GPX22 C 326:1

Drawings are not to scale!



Beschriftung Labeling
24 v 326 - 1

Summary of your selected configuration

Motor - DCX22S GB KL 24V

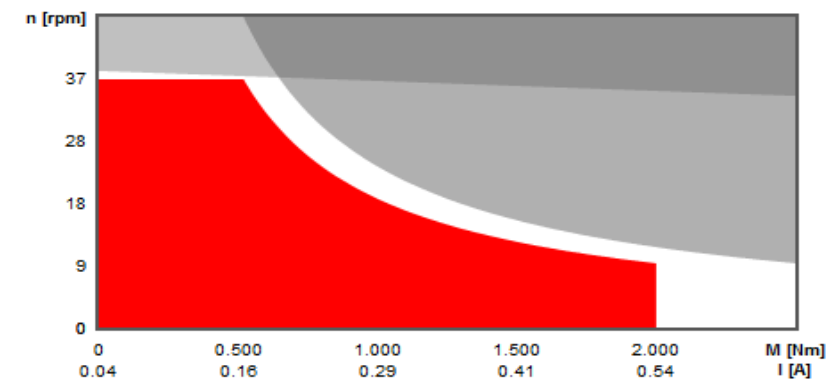
Planetary gearhead - GPX22 C 326:1

Total weight of the drive: 121 g

Functions			
Gearhead type	Ceramic version		*
Reduction	326 : 1		*
Number of stages	4		*
Commutation	Graphite brushes		
Supply voltage	Nominal voltage 24 V		*
Motor bearings	Preloaded ball bearing		
Form and Fit			
Gear shaft	with flat		
Shaft bore	without transverse bore		
Shaft length L1	14.85	mm	
Length of flat L2	9.3	mm	
Height of flat D2	3.5	mm	
Position of borehole L3	3	mm	*
Gear flange	Standard flange		
Amount of threads	3		
Thread diameter	M3		*
Pitch circle diameter TK	17	mm	
Flange, rear	No flange		
Shaft, rear	straight		
Shaft length L1	4.95	mm	
Electrical connection, motor	Terminal		
Connection orientation (motor)	0	degree	
Add-ons			
Labeling	24 v 326 - 1		*
EMI Filter	no suppression		

(*) These values have been changed through the configuration.

Drive disposition



	Continuous operation range		Out of voltage range
	Short-term operating range		Selected operating point
	Continuous operation range at reduced thermal resistance Rth2 50%		

Values of the drive at max. available voltage

Max. motor voltage	24 V
Max. load speed	33 min ⁻¹
Continuous torque	3313.46 mNm
Nominal current (max. continuous current)	0.51 A

Your operating point - The required data for the load

Required voltage	0.1 V
Max. load speed	0 min ⁻¹
Effective load torque (rms)	0 mNm
Effective load current (rms)	0.04 A

Motor - DCX22S GB KL 24V



Values at nominal voltage

Nominal voltage	24 V
No load speed	12400 rpm
No load current	35.9 mA
Nominal speed	10800 rpm
Nominal torque (max. continuous torque)	15.4 mNm
Nominal current (max. continuous current)	0.87 A
Stall torque	120 mNm
Starting current	6.51 A
Max. efficiency	85.9 %

Characteristics

Max. output power	24 W
Terminal resistance	3.69 Ohm
Terminal inductance	0.231 mH
Torque constant	18.4 mNm/A
Speed constant	520 rpm/V
Speed/torque gradient	104 rpm/mNm
Mechanical time constant	6.07 ms
Rotor inertia	5.55 gcm ²

Thermal data

Thermal resistance housing to ambient	16 K/W
Thermal resistance winding to housing	7 K/W
Thermal time constant of the winding	20 s
Thermal time constant of the motor	528 s
Ambient temperature	-40..100 °C
Max. permissible winding temperature	125 °C

Mechanical data

Max. permissible speed	18000 rpm
Min. axial play	0 mm
Max. axial play	0.1 mm
Radial backlash	0.02 mm
Max. axial load (dynamic)	2.5 N
Max. force for press fits (static)	30 N
Max. radial load	16 N

Further specifications

Number of pole pairs	1
Number of collector segments	9
Weight	60 g
Number of sterilization cycles	0
Typical noise level	41 dBA

Information about motor data: http://www.maxonmotor.com/medias/CMS_Downloads/DIVERSES/12_049_EN.pdf

Planetary gearhead - GPX22 C 326:1



Gearhead data

Reduction	326:1
Absolute reduction	29109375/89167
Max. transmittable continuous power	2 W
Max. transmittable intermittent power	2.5 W
Number of stages	4
Max. continuous torque	2 Nm
Permissible intermittent torque	2.5 Nm
Direction of rotation, drive to drive	=
Max. efficiency	66 %
Weight	61 g
Average no-load backlash	1.9 degree
Moment inertia	0.392 gcm ²
Gearhead length	36.1 mm

Technical data

Output shaft bearing	Ball bearings
Gearhead type	GPX
Max. radial backlash	0.2 mm
mm from flange	5 mm
Min. axial play	0 mm
Max. axial play	0.05 mm
Max. permissible radial load	70 N
mm from flange	5 mm
Max. axial load (dynamic)	100 N
Max. force for press fits	100 N
Recommended motor speed	12000 rpm
Max. short-term input speed	15000 rpm
Min. recommended temperature range	-40..100 °C
Number of sterilization cycles	0

Information about gearhead data: http://www.maxonmotor.com/medias/CMS_Downloads/DIVERSES/12_203_EN.pdf

The following controllers are available for this drive:

Note: Please use this part number to order in the online catalog .



EPOS2 24/2
390003



EPOS2 Module 36/2
360665



EPOS2 50/5
347717



ESCON 36/2 DC
403112



ESCON Module 50/5
438725



MAXPOS 50/5
447293



EPOS2 P 24/5
378308



EPOS2 24/5
367676



EPOS3 70/10 EtherCAT
411146



ESCON 50/5
409510