

Your configured drive

Part number*: B7735DB1A966 Revision 2

maxon motor

driven by precision

Motor - DCX26L GB KL 18V
Planetary gearhead - GPX26 LN 21:1

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

E-Mail: e-shop@maxonmotor.com
Internet: www.maxonmotor.com

After an order is placed at the e-shop, the product is manufactured in Switzerland and delivered after 11 working days.
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Interactive 3D model

Click on the icon to activate your 3D model



Your configuration can be viewed here:

<http://www.maxonmotorusa.com/maxon/view/configurator/?ConfigID=B7735DB1A966>

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

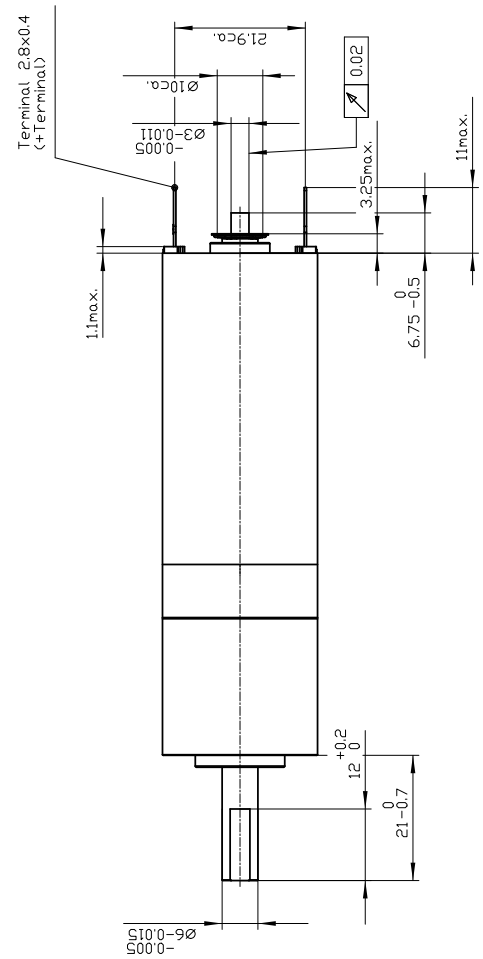
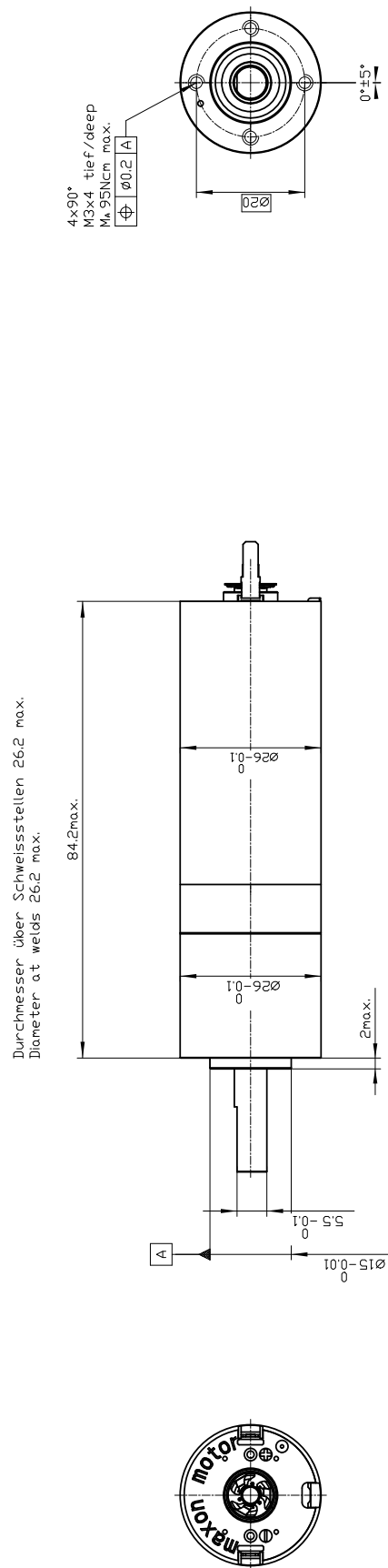
Attachments / CAD files

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.

B7735DB1A966.stp (STP AP 214)

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Drawings are not to scale!



Summary of your selected configuration

Motor - DCX26L GB KL 18V

Planetary gearhead - GPX26 LN 21:1

Total weight of the drive: 253 g

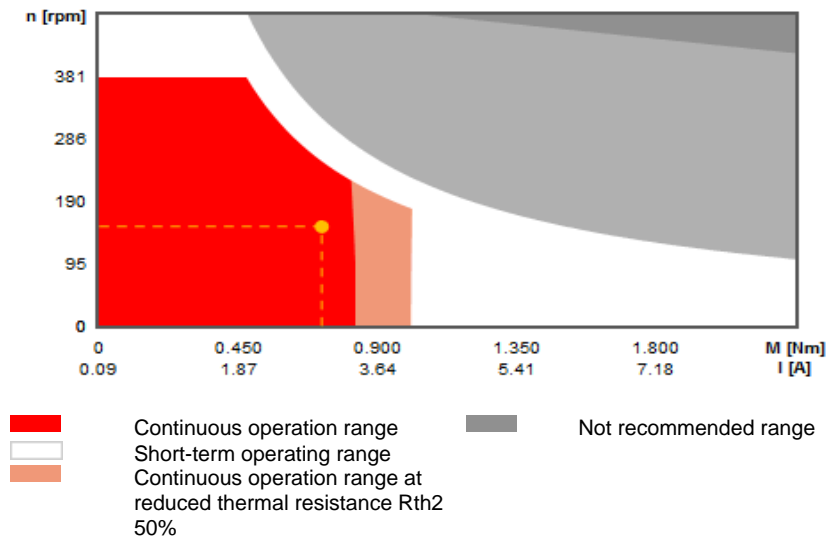
Motor: DCX26L GB KL 18V

Commutation	Graphite brushes
Nominal voltage	18 V
Motor bearings	Preloaded ball bearing

Gearhead GPX26 LN 21:1

Gearhead type	Reduced noise level
Reduction	21:1
Number of stages	2

Operating range



Motor - DCX26L GB KL 18V

Values at nominal voltage

Nominal voltage	18 V
No load speed	11100 rpm
No load current	93 mA
Nominal speed	10000 rpm
Nominal torque (max. continuous torque)	54.3 mNm
Nominal current (max. continuous current)	3.59 A
Stall torque	653 mNm
Stall current	42.2 A
Max. efficiency	90 %

Characteristics

Max. output power	67.5 W
Terminal resistance	0.427 Ohm
Terminal inductance	0.0671 mH
Torque constant	15.5 mNm/A
Speed constant	616 rpm/V
Speed/torque gradient	17 rpm/mNm
Mechanical time constant	3.79 ms
Rotor inertia	21.3 gcm ²

Thermal data

Thermal resistance housing-ambient	10.2 K/W
Thermal resistance winding-housing	3.01 K/W
Thermal time constant of the winding	24 s
Thermal time constant of the motor	620 s
Ambient temperature	-40..100 °C
Max. winding temperature	155 °C

Mechanical data

Max. permissible speed	14400 rpm
Min. axial play	0 mm
Max. axial play	0.1 mm
Radial backlash	0.02
Max. axial load (dynamic)	5.5 N
Max. force for press fits (static)	40 N
max. radiale Last 5 mm from flange	20.5 Nm

Further specifications

Number of pole pairs	1
Number of commutator segments	11
Weight	158.4 g
Number of autoclave cycles	0
Typical noise level	44 dBA

Information about motor data: http://www.maxonmotor.com/medias/CMS_Downloads/DIVERSES/12_137_EN.pdf

Planetary gearhead - GPX26 LN 21:1



Gearhead data

Reduction	21:1
Absolute reduction	5175/247
Max. transmittable power (continuous)	19 W
Max. transmittable power (intermittent)	24 W
Number of stages	2
Max. continuous torque	1.8 Nm
Max. intermittent torque	2.25 Nm
Direction of rotation, drive to output	=
Max. efficiency	78 %
Weight	95 g
Average backlash no-load	1 degree
Mass inertia	1.319 gcm ²
Gearhead length	30.2 mm

Technical data

Output shaft bearing	KL
Gearhead type	GPX
Max. radial play	0.1 mm
mm from flange	10 mm
Min. axial play	0 mm
Max. axial play	0.4 mm
Max. permissible radial load	145 N
mm from flange	10 mm
Max. axial load (dynamic)	80 N
Max. force for press fits	120 N
Max. continuous input speed	8000 rpm
Max. intermittent input speed	10000 rpm
Min. recommended temperature range	-15..85 °C
Number of autoclave cycles	0

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