

Your configured drive

Part number*: B74631C41DE8 Revision 1

maxon motor

driven by precision

Motor - DC-max 22 S EB 6V

maxon motor worldwide

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

E-Mail: e-shop@maxonmotor.com

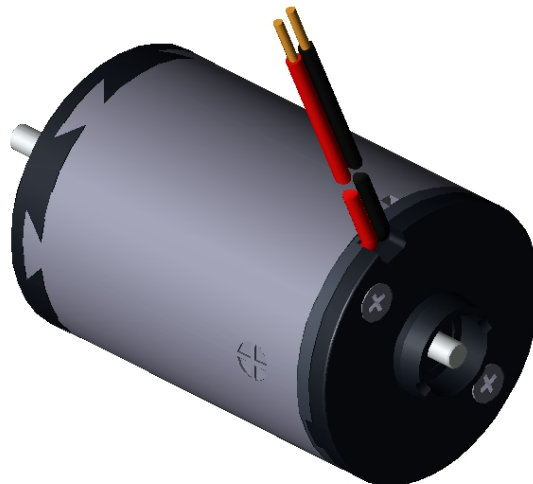
Internet: www.maxonmotor.com

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

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

Interactive 3D model

Click on the icon to activate your 3D model



Your configuration can be viewed here:

<http://www.maxonmotor.com/maxon/view/configurator/?ConfigID=B74631C41DE8>

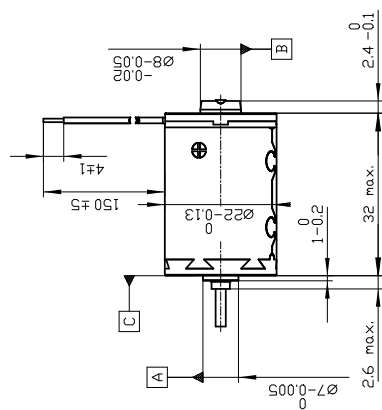
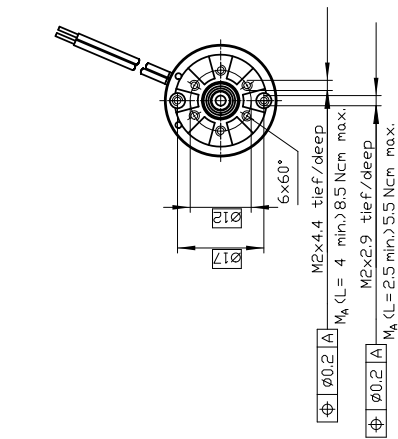
*If the link doesn't work, you can open your configuration with the part number from the catalog.

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.

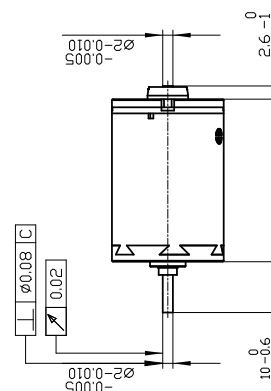
B74631C41DE8.stp (STP AP 214)

Drawings are not to scale!



Abgangswinkel nicht dargestellt
no output angle visualisation

Kabel/cable AWG24/7 UL Style 1061
+ Kabel rot
+ cable red



Kabel nicht dargestellt
no cable visualisation

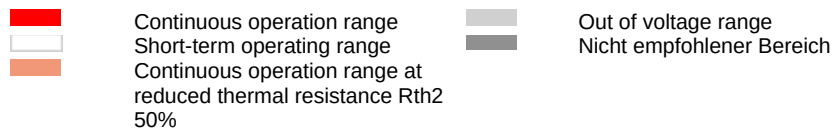
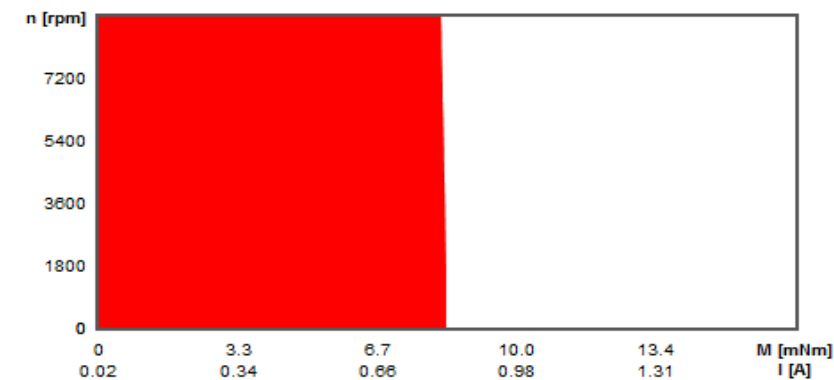
Summary of your selected configuration

Motor - DC-max 22 S EB 6V

Total weight of the drive: 47 g

Motor: DC-max 22 S EB 6V	
Commutation	Precious metal brushes
Nominal voltage	6 V
Motor bearings	Ball bearings
Shaft, rear	
Shaft, rear	Configurable shaft
Spark suppression (CLL)	with CLL

Drive disposition



Motor - DC-max 22 S EB 6V



Values at nominal voltage

Nominal voltage	6 V
No load speed	5490 rpm
No load current	18.9 mA
Nominal speed	4280 rpm
Nominal torque (max. continuous torque)	8.55 mNm
Nominal current (max. continuous current)	0.84 A
Stall torque	39 mNm
Stall current	3.75 A
Max. efficiency	86.5 %

Characteristics

Max. output power	7.74 W
Terminal resistance	1.6 Ohm
Terminal inductance	0.119 mH
Torque constant	10.4 mNm/A
Speed constant	919 rpm/V
Speed/torque gradient	141 rpm/mNm
Mechanical time constant	8.44 ms
Rotor inertia	5.7 gcm ²

Thermal data

Thermal resistance housing-ambient	20 K/W
Thermal resistance winding-housing	6 K/W
Thermal time constant of the winding	17.6 s
Thermal time constant of the motor	538 s
Ambient temperature	-30..65 °C

Max. winding temperature

85 °C

Mechanical data

Max. permissible speed	9000 rpm
Min. axial play	0.05 mm
Max. axial play	0.15 mm
Radial backlash	0.025
Max. axial load (dynamic)	3.3 N
Max. force for press fits (static)	45 N
Max. radial load	12.3 N

Further specifications

Number of pole pairs	1
Number of commutator segments	9
Weight	47 g
Number of autoclave cycles	0
Typical noise level	42 dBA

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