

Configured drive

Motor - DCX22S GB KL 24V

Part number: B7CFCC1CA37A Revision number 2

Orders are processed and shipped from Switzerland within 11 working days.

General Terms and Conditions: https://www.maxongroup.ch/maxon/view/content/terms_and_conditions_page

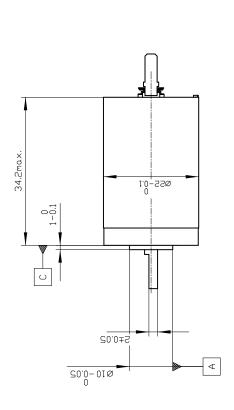


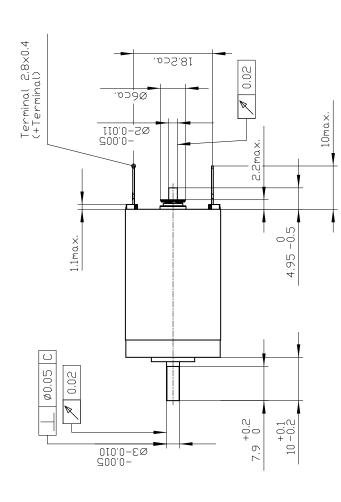
To open the integrated CAD file, please save this document and open it in Acrobat Reader. The STEP file is available after a double-click on the pin icon.

B7CFCC1CA37A.stp (STP AP 214)

 $Open\ configuration:\ \underline{https://www.maxongroup.com/maxon/view/configurator/?ConfigID=B7CFCC1CA37A}$

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Summary of your selected configurationTotal weight of the drive: 66 g

	DCX22S GB KL 24V	
Product detail		
	Commutation	Graphite brushes
	Nominal voltage	24 V
	Motor bearings	Preloaded ball bearing
	Shaft machining surcharge	
Shaft, front		
	Shaft, front	Configurable shaft
	Shaft shape	with flat
	Length of flat	7.9 mm
	Height of flat	2 mm

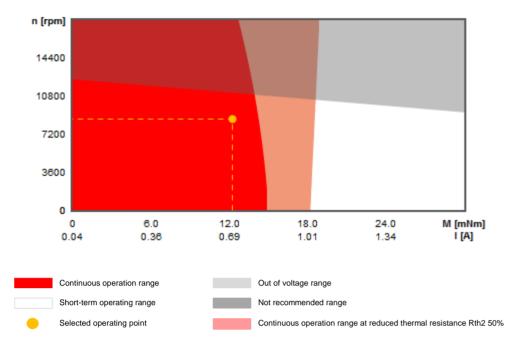


Legend for part designation

EB A GPX ST STE ABS	Precious metal brushes Hall sensors Planetary gearhead Number of stages Sterilizable Absolute	GB B ENX HP INT	Graphite brushes Sensorless Encoder High Power integ. Reduced noise level	CLL KL ENC S/M/L STD	Spark suppression Ball bearings Encoder Short/medium/long Standard Standard	BL SL IMP HS SP	Brushless Sintered bearings Pulses High Speed Speed Reduced backlash
ABS C	Absolute Ceramic bearing	LN	Reduced noise level	A STEC	Standard Sterilizable, Ceramic bearing	LZ	Reduced backlash

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Drive disposition



Combination deta	ails
Your entries	
Available voltage	24 V
Speed	8640 min ⁻¹
Torque	12.24 mNm
Values of the drive at available voltage	
Available voltage	24 V
Max. speed at given lo	ad 11120 min ⁻¹
Max. continuous torqu	e 15.30 mNm
Max. continuous curre	nt 0.87 A
Descriped electrical data for your expection	walint
Required electrical data for your operating	point

Required electrical data for your operating point		
Speed	8640 min ⁻¹	
Torque	12.24 mNm	
Required voltage	19.21 V	
Required current	0.70 A	



DCX22S GB KL 24V



Dun derek a	
Product s	pecification

Values at nominal voltage		
Nominal voltage	24 V	
No load speed	12400 min ⁻¹	
No load current	35.9mA	
Nominal speed	10800 min ⁻¹	
Nominal torque (max. continuous torque)	15.3 mNm	
Nominal current (max. continuous current)	0.869 A	
Stall torque	120 mNm	
Stall current	6.51 A	
Max. efficiency	85.9 %	

Characteristics		
	Max. output power continuous	24 W
	Terminal resistance	3.69 Ω
	Terminal inductance	0.231 mH
	Torque constant	18.4 mNm A ⁻¹
	Speed constant	520 min ⁻¹ V ⁻¹
	Speed/torque gradient	104 min ⁻¹ mNm ⁻¹
	Mechanical time constant	6.07ms
	Rotor inertia	5.55 gcm ²

Thermal data		
	Thermal resistance housing-ambient	16 KW ⁻¹
	Thermal resistance winding-housing	7 KW-1
	Thermal time constant of the winding	20 s
	Thermal time constant of the motor	528 s
	Ambient temperature	-40100 °C
	Max. winding temperature	125 °C

Mechanical data		
Max. p	permissible speed	18000 min ⁻¹
Axial p	olay	00.1 mm
Preloa	d	2.5 N
Radial	backlash	0.02 mm
Max. a	axial load (dynamic)	2.5 N
Max. fo	orce for press fits (static)	30 N



Static, supported shaft	440 N
Max. radial load 5 mm from flange	16 N
Measurement from the flange	5 mm

Further specifications		
Number of pole pairs	1	
Number of commutator segments	9	
Motor weight	66 g	
Motor length	34.2 mm	
Typical noise level	41 dBA (min ⁻¹)	

Information about motor data: https://www.maxongroup.com/medias/CMS_Downloads/DIVERSES/12_049_EN.pdf