Summary of your selected configuration

Motor - DCX16S EB SL 12V Planetary gearhead - GPX16 A 26:1 Sensor - ENX16 EASY 256IMP

Total weight of the drive: 59 g

Functions				
Gearhead type	Standard version			
Reduction	26 : 1		*	
Number of stages	2		*	
Commutation	Precious metal brushes			
Spark suppression (CLL)	with CLL			
Supply voltage	Nominal voltage 12 V			
Motor bearings	Sintered sleeve bearings			
Counts per turn	256		*	
Form and Fit				
Gear shaft	with flat			
Shaft length L1	11.75	mm		
Length of flat L2	7.8	mm		
Height of flat D2	2.8	mm		
Gear flange	Standard flange			
Amount of threads	3			
Thread diameter	M2			
Pitch circle diameter TK		mm		
Electrical connection, motor	Cable		*	
Connector type, motor	No connector			
Cable length L1 for motor		mm		
Cable type	AWG24			
Electrical connection, encoder	Standard			
Cable length L1 for encoder		mm		
Cable type for encoder	TPE ribbon cable			
Connector type, encoder	10-pol 2.54mm pin header	4		
Connection orientation (motor)		degree		
Connection orientation (encoder)	0	degree		
Add-ons				
Labeling	Standard labeling			

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





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Values at nominal voltage		
Nominal voltage	12	
No load speed	6260	rpm
No load current		mA
Nominal speed	3320	rpm
Nominal torque (max. continuous torque)	5.19	mNm
Nominal current (max. continuous	0.299	Α
current)		
Stall torque	11.2	mNm
Stall current	0.624	Α
Max. efficiency	75.4	%
Characteristics		
Max. output power	4.35	
Terminal resistance		Ohm
Terminal inductance	0.581	
Torque constant	_	mNm/A
Speed constant		rpm/V
Speed/torque gradient		rpm/mNm
Mechanical time constant	6.11	ms
Rotor inertia	1.03	gcm^2
Thermal data		
Thermal resistance housing-ambient	23.5	K/M/
		K/W
Thermal resistance winding-housing Thermal time constant of the winding		
Thermal time constant of the winding Thermal time constant of the motor	9.32 227	
Ambient temperature	-3085	-
Max. winding temperature	100	°C
Mechanical data		
Max. permissible speed	8680	rpm
Min. axial play		mm
Max. axial play		mm
Radial backlash	0.015	
Max. axial load (dynamic)	0.010	******
Max. force for press fits (static)	60	
Max. radial load		N
Further specifications		
Number of pole pairs	1	
Number of commutator segments	7	
Weight	28	g
Number of autoclave cycles	0	
Typical noise level	40	dBA

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

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Planetary gearhead - GPX16 A 26:1



Gearhead data	
Reduction	26:1
Absolute reduction	4950/190
Max. transmittable power (continuous)	3.1 W
Max. transmittable power (intermittent)	3.9 W
Number of stages	2
Max. continuous torque	0.2 Nm
Max. intermittent torque	0.23 Nm
Direction of rotation, drive to output	=
Max. efficiency	80 %
Weight	25 g
Average backlash no-load	1.6 degree
Mass inertia	0.108 gcm^2
Gearhead length	20.7 mm

Technical data		
Output shaft bearing	KL	
Gearhead type	GPX	
mm from flange	5	mm
Min. axial play	0	mm
Max. axial play	0.1	mm
Max. permissible radial load	60	N
mm from flange	5	mm
Max. axial load (dynamic)	12	N
Max. force for press fits	60	N
Recommended motor speed	14000	rpm
Max. intermittent input speed	17500	rpm
Min. recommended temperature range	-40100	°C
Number of autoclave cycles	0	

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

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Sensor - ENX16 EASY 256IMP

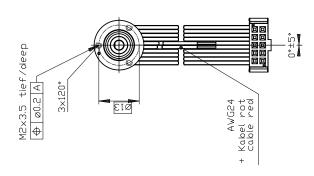


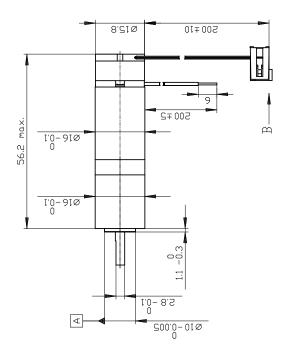
Туре		
Counts per turn	256	
Number of channels	3	
Line Driver	RS422	
Max. outer diameter	15.8	mm
Max. housing length	8.5	mm
Max. electrical speed	120000	rpm
Max. speed	30000	rpm
Technical data		
Supply voltage	4.55.5	V
Output signal driver	Differential, EIA RS 422	
Current per cable	-2020	mA
Min. statuslengte	30	°el
Max. state length	175	°el
Signal rise time/Signal fall time	20/20	ns
Min. state duration	500	ns
Direction of rotation	A for B, CW	
Index position	A low & B low	
Index synchronously to AB	yes	
Index pulse width	90	°e
Typical current draw at standstill	17	mA
Max. moment of inertia of code wheel		gcm^2
Weight (Standard cable length)	6.4	g
Operating temperature range	-40100	°C

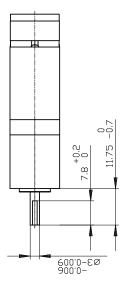
Datasheet: http://www.maxonmotor.com/medias/CMS_Downloads/DIVERSES/ENXEASY_en.pdf

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Number of autoclave cycles







Pin 2	r Typ Sensor connector type	Federleiste/pin header	Pinbelegung in allocation	Nicht verbinden do not connect	אככ	GND	Nicht verbinden do not connect	Kanal A \ channel A \	Kanal A channel A	Kanal B \ channel B \	Kanal B channel B	Kanal I ∖ channel I∖	Kanal I channel I
Pin 10 B	Stecker sensor co	2.54mm Federle	Pinbe pin al	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10

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Kabel nicht dargestellt no cable visualisation

