

# Solution details for

## 2342S036CR

Your comments

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### Your Requirements

Load transmission	Direct rotational	
Ambient temperature	22	°C
Available diameter	100	mm
Available length	400	mm
Available supply voltage	24	V
Available current	5	A
Efficiency, min.	10	%
Required load speed	1.000	1/min
Required load torque	10	mNm

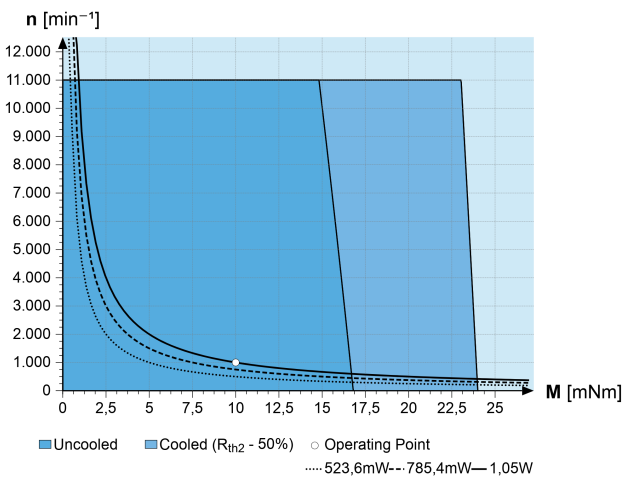
### Results of the Load Calculation

Load current	271,28	mA
Load voltage	9,38	V
Motor winding temperature	41,51	°C
Motor housing temperature	37,73	°C
Required motor torque	10	mNm
Required motor speed	1.000	1/min
Output power	1,05	W
Efficiency (over all)	41,14	%

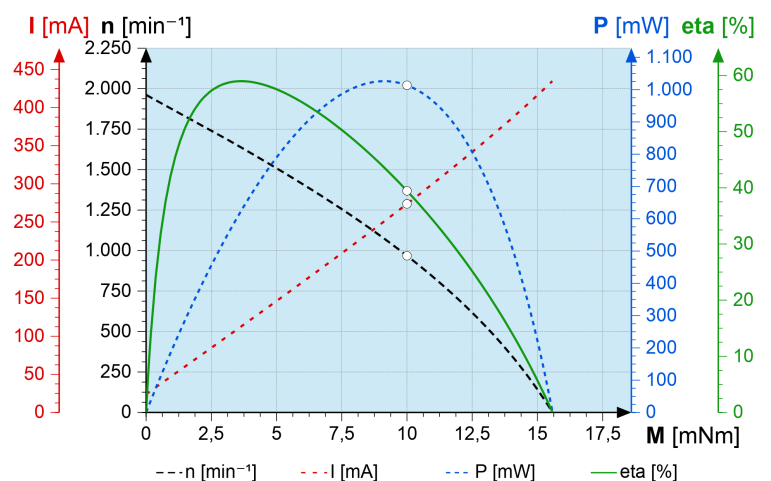
### Overall Dimensions

Diameter	23	mm
Length	42	mm
Mass	88	g

### Operating Area



### Characteristic curves



**Motor Characteristic Data**

Nominal voltage	$U_N$	36	V
Terminal resistance	R	15,9	$\Omega$
Torque constant	$k_M$	41,4	mNm/A
No load speed	$n_0$	8.100	1/min
Stall torque	$M_H$	91,4	mNm
Speed constant	$k_n$	231	1/min/V
Rotor inductance	L	0,59	mH
Slope of n-M curve	$\Delta n/\Delta M$	88,6	1/min/mNm
Rotor inertia	J	6,5	gcm <sup>2</sup>
Mechanical time constant	$\tau$	6	ms
Efficiency max.	$\eta_{max}$	81	%

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