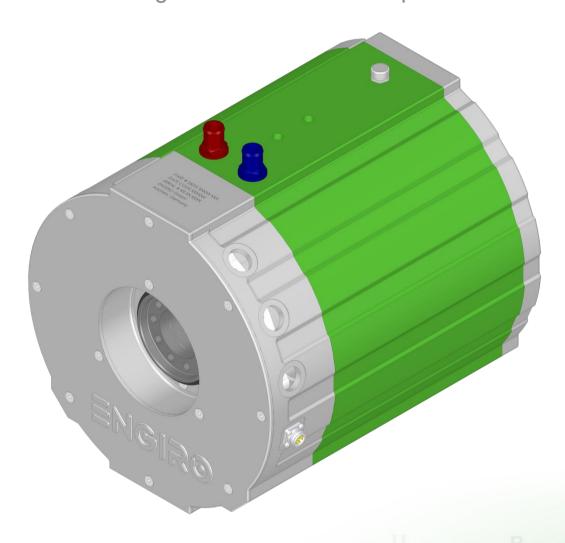


Data Sheet 260W-10014-ABC

water-cooled motor / generator with 104 kW power



KEY FEATURES

- permanent magnet synchronous machine
- water-cooled
- high peak power for motor applications
- convincing cost-benefit ratio
- recommended voltage range from 300V to 500V
- delivery with controller possible

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Technical Data Machine



No.	ominal Operation (S2, 3	0 min, cooling	as specified b	oelow)		
Torque	T_{nom}				264	Nm
Power	P_{nom}		104 kW			
Speed	n_{nom}				3690	rpm
Phase rms-current	I _{nom}				2681,2)	А
Battery voltage (DC)	U_{nom}				400	V
Electric frequency	$f_{el,nom}$				307	Hz
Power factor	cos(φ)				0.73	
	Maximal Values (S2, 10	0s, cooling as s	specified belo	ow)		
Torque	T_{max}				543	Nm
Power	P_{max}		194 kW			
Phase rms-current	I _{max}		703 ²⁾ A			А
Battery voltage (DC)	U_{max}		500 V			
Speed	n_{\max}		6000 rpm			
Electric frequency	f _{el, max}				500	Hz
	Ele	ctrical Data				
Number of phases					3	
Number of pole pairs					5	
Maximal efficiency					96	%
T//constant (I <td></td> <td></td> <td></td> <td>0.98</td> <td>Nm/A_{rms}</td>					0.98	Nm/A _{rms}
U/n constant (AC) at a temperature of 30°C		rms:	58.8	peak:	91.1	V/(1000rpm
K _e constant (AC) at a temperature of 30°C		rms:	0.112	peak:	0.174	V/(rad*s-1)
	Ado	litional Data				
Weight (w/o cables)			77			
Rotor moment of inertia			0.077			
Protection category			IP6K9K ³⁾			
Maximal motor temperature			140			
Allowed ambient temperature			-20 45 ⁴⁾			
Cooling (medium, flow rate, inlet temperature, pressure)		wate	water/glycol 50/50, 16 l/min, ≤ 45°C, ≤ 0.5 bar			
Temperature monitoring			1 x KTY84-130			
Type approval			CE, EN 60034			
Customs tariff number					8501 5381	
	C	onnectors				
Power terminals			3 x M25 cable gland			
Signal connectors					M16, 10 Pin	
Cooling connectors				2 x	³⁄₄" / 19 mm	

 $^{^{\}rm 1)}\,{\rm Nominal}\,$ current strongly dependent on cooling as specified below.

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²⁾ The cables must not exceed a temperature of 140 °C at any time. Temperature and service life depend on the installation condition.

³⁾ Please note that the IP6K9K rating is only valid if the machine is installed with suitable cable glands and an appropriate sealed interface at the drive side of the motor (flange and/or shaft). Please contact ENGIRO for further questions. / Only applies to SFR Variant /

⁴⁾ other range on request

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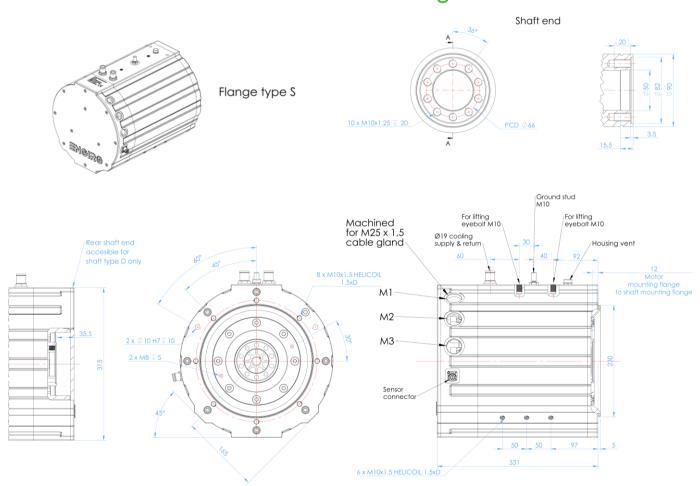
Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-10014-ABC		Flange (A)		
		S (Standard)		
Shaft (B)	F (Hollow shaft with two srew flanges)	•		
Position Sensor (C)		R: Resolver		

Other individual combinations are also possible on request.

Technical Drawings

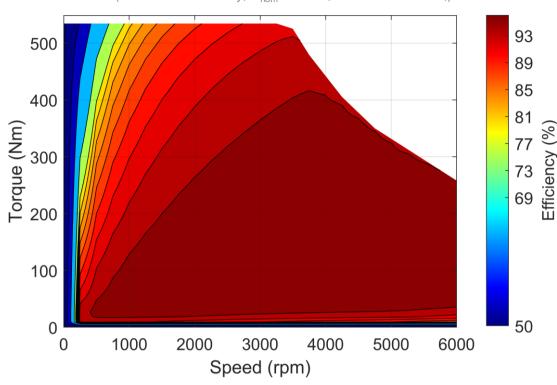


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Characteristics Machine







Simulated Characteristic Motor Parameters

 $U_{\text{nom}} = 400 \text{ V}$ solid lines: S2 30min; dashed lines: maximum;

