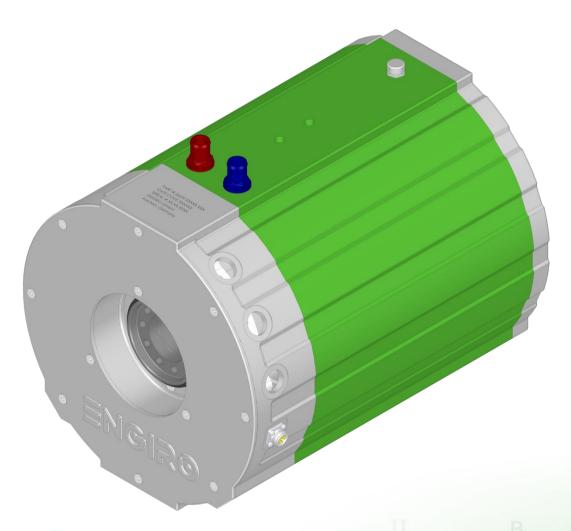


### Data Sheet 260W-15014-ABC

water-cooled motor/generator with up to 116 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



	lominal Operation (S2, 3	0min, cooling as	specified b	elow)		
Torque	$T_{nom}$				443	Nm
Power	$P_{nom}$		116			kW
Speed	$n_{nom}$				2450	rpm
Phase rms-current	I <sub>nom</sub>				3001,2)	Α
Battery voltage (DC)	$U_{nom}$		400			V
Electric frequency	$f_{el,nom}$		205			Hz
Power factor	cos(φ)		0.73			
	Maximal Values (S2, 10	Os, cooling as sp	ecified belo	ow)		
Torque	$T_{max}$				831	Nm
Power	$P_{max}$		195			
Phase rms-current	I <sub>max</sub>		702 <sup>2)</sup>			А
Battery voltage (DC)	$U_{max}$		500			V
Speed	$n_{max}$		6000			rpm
Electric frequency	f <sub>el, max</sub>		500			Hz
		ctrical Data				
Number of phases			3			
Number of pole pairs			5			
Maximal efficiency			96			%
T// constant (I <i<sub>nom)</i<sub>					1.47	Nm/A <sub>rms</sub>
U/n constant (AC) at a temperature of 30°C		rms:	88.2	peak:	124.7	V/(1000rpm
$K_{\rm e}$ constant (AC) at a temperature of 30°C		rms:	0.168	peak:	0.238	V/(rad*s-1)
	Add	litional Data				
Weight (w/o cables)		97			kg	
Rotor moment of inertia		0.104				
Protection category			IP6K9K <sup>3)</sup>			
Maximal motor temperature			140			
Allowed ambient temperature			-20 45 <sup>4)</sup>			
Cooling (medium, flow rate, inlet temperature, pressure)		water/g	water/glycol 50/50, 18 l/min, ≤ 45°C, ≤ 0.5 bar			
Temperature monitoring			1 x KTY84-130			
pe 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 ¾" / 19 mm			

 $<sup>^{\</sup>mbox{\scriptsize 1)}}$  Nominal current strongly dependent on cooling as specified below.

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

<sup>&</sup>lt;sup>3)</sup> 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 /

<sup>4)</sup> other range on request

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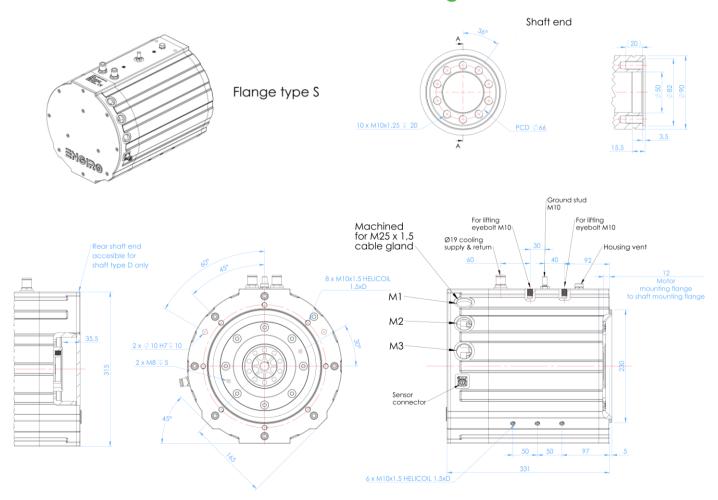
## Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-15014-ABC		Flange (A)		
		<b>S</b> (Standard)		
Shaft (B)	<b>F</b> (Hollow shaft with two screw flanges)	•		
Position Sensor (C)		R: Resolver		

Other individual combinations are also possible on request.

### **Technical Drawings**

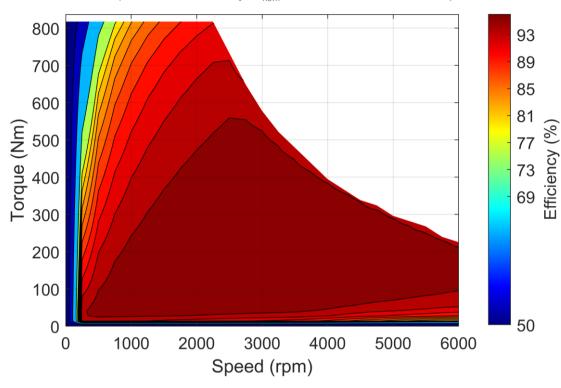


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### Characteristics Machine







### Simulated Characteristic Motor Parameters

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

