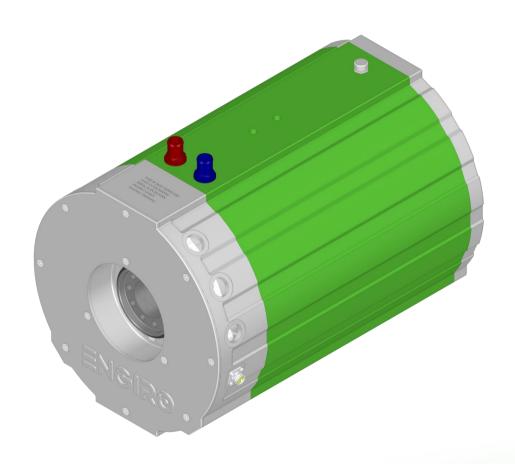


Data Sheet 260W-20014-ABC

water-cooled motor / generator with 186 kW power



KEY FEATURES

- permanent magnet synchronous machine
- water-cooled
- high peak power for motor applications
- convincing cost-benefit ratio
- recommended voltage range from 500V to 850V
- delivery with controller possible



Hc

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Nor	minal Operation (S2, 6	60 min, cooling	as specified b	pelow)		
Torque	T_{nom}			,	509	Nm
Power	P_{nom}				186	kW
Speed	n_{nom}				3500	rpm
Phase rms-current	I _{nom}				2901,2)	А
Battery voltage (DC)	U_{nom}				700	V
Electric frequency	$f_{el,nom}$				292	Hz
Power factor	cos(φ)				0.73	
	Maximal Values (S2, 1	l0s, cooling as	specified belo	ow)		
Torque	T_{max}				1108	Nm
Power	P_{max}		346 kW			kW
Phase rms-current	I _{max}		7032)			А
Battery voltage (DC)	U_{max}		850			V
Speed	n _{max}		6000 rpm			rpm
Electric frequency	f _{el, max}				500	Hz
	El	ectrical Data				
Number of phases					3	
Number of pole pairs					5	
Maximal efficiency					96	%
T//constant (I <i<sub>nom)</i<sub>					1.96	Nm/A _{rms}
U/n constant (AC) at a temperature of 30°C		rms:	117.6	peak:	182.3	V/(1000rpm)
$K_{\rm e}$ constant (AC) at a temperature of 30°C		rms:	0.225	peak:	0.348	V/(rad*s-1)
	Ad	ditional Data				
Weight (w/o cables)		117				
Rotor moment of inertia			0.131			
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, 20 l/min, ≤ 45°C, ≤ 0.5 bar			
Temperature monitoring			1 x KTY84-130			
Type approval			CE, EN 60034			
Customs tariff number 8501 538			8501 5381			
	(Connectors				
Power terminals			3 x M25 cable gland			
Signal connectors			M16, 10 Pin			
Cooling connectors				2 ×	³⁄₄" / 19 mm	

¹⁾ 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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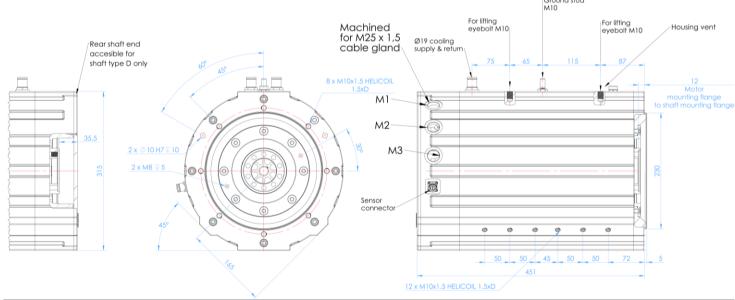
Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-20014-ABC		Flange (A)	
		S (Standard)	
Shaft (B)	F (Hollow shaft with two screw flanges)	•	
Position Sensor (C)		R: Resolver	

Other individual combinations are also possible on request.

Technical Drawings Shaft end Flange type S PCD ∅ 66 Ground stud M10 For lifting



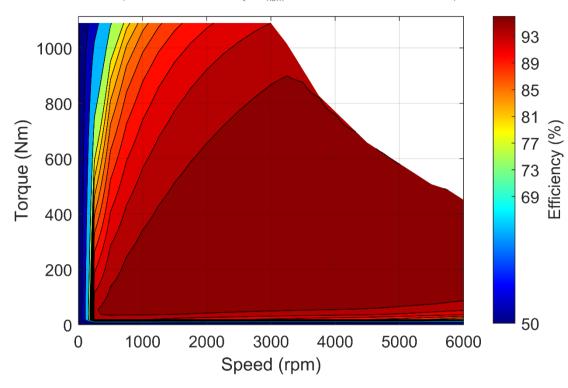
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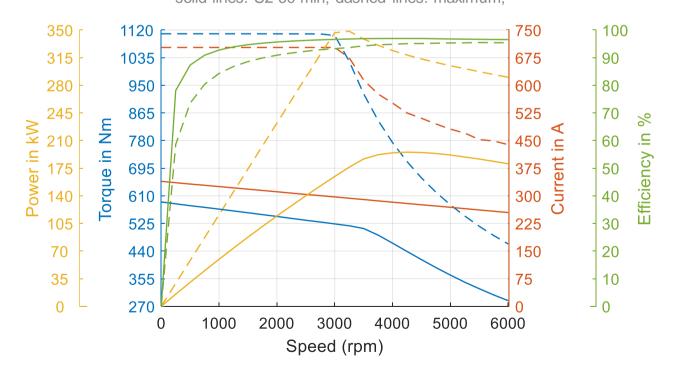
Characteristics Machine







Simulated Characteristic Motor Parameters $U_{\text{nom}} = 700 \text{ V}$ solid lines: S2 60 min; dashed lines: maximum;



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