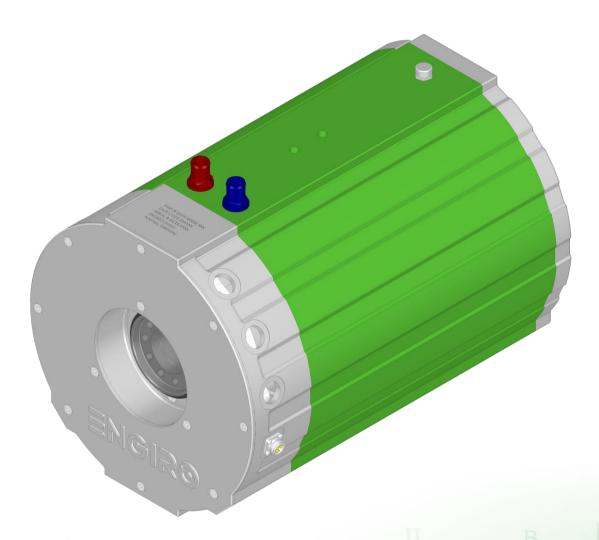


Data Sheet 260W-20020-ABC

water-cooled motor / generator with 127 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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Technical Data Machine



	Nominal Operation (S2, 3	0min, cooling a	as specified b	pelow)		
Torque	T_{nom}				540	Nm
Power	P_{nom}				127	kW
Speed	n_{nom}				2260	rpm
Phase rms-current	I _{nom}				215 ^{1,2)}	А
Battery voltage (DC)	U_{nom}				700	V
Electric frequency	$f_{el,nom}$				188	Hz
Power factor	$cos(\phi)$				0.73	
	Maximal Values (S2, 10	0s, cooling as :	specified belo	ow)		
Torque	T_{max}				1108	Nm
Power	P_{max}		242 kW			kW
Phase rms-current	I _{max}		492 ²⁾ A			А
Battery voltage (DC)	U_{max}		850 V			
Speed	n_{max}		4210 rpm			
Electric frequency	f _{el, max}				351	Hz
	Ele	ctrical Data				
Number of phases			3			
Number of pole pairs			5			
Maximal efficiency					96	%
T/I constant (I <i<sub>nom)</i<sub>					2.8	Nm/A _{rms}
U/n constant (AC)		rms:	167.9	peak:	260.2	V/(1000rpm
$K_{\rm e}$ constant (AC)		rms:	0.321	peak:	0.497	V/(rad*s-1)
	Ado	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 5381		
	С	onnectors				
Power terminals			3 x M25 cable gland			
Signal connectors			M16, 10 Pin			
Cooling connectors				2 x	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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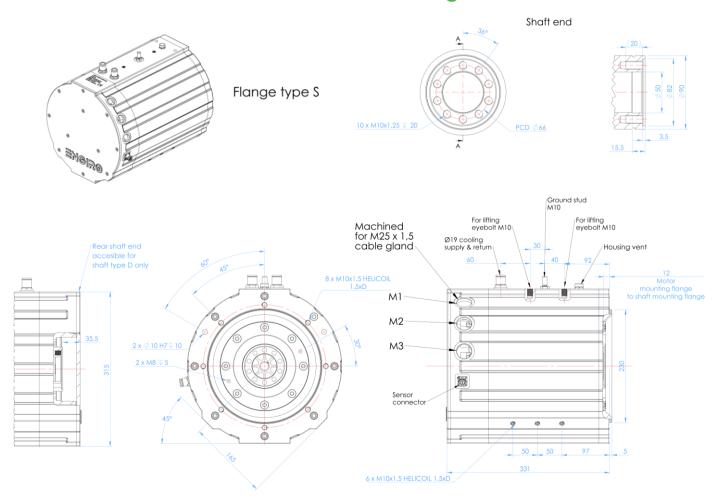
Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-20020-ABC		Flange (A)		
		S (Standard)		
Shaft (B)	F (Hollow shaft with two screw flanges)	•		
Posi	ition Sensor (C)	R: Resolver		

Other individual combinations are also possible on request.

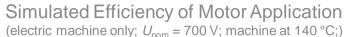
Technical Drawings

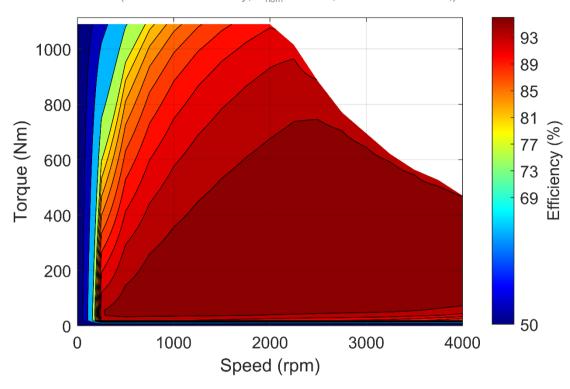


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Characteristics Machine







Simulated Characteristic Motor Parameters $U_{\text{nom}} = 700 \text{ V}$ solid lines: S2, 30 min; dashed lines: maximum;

