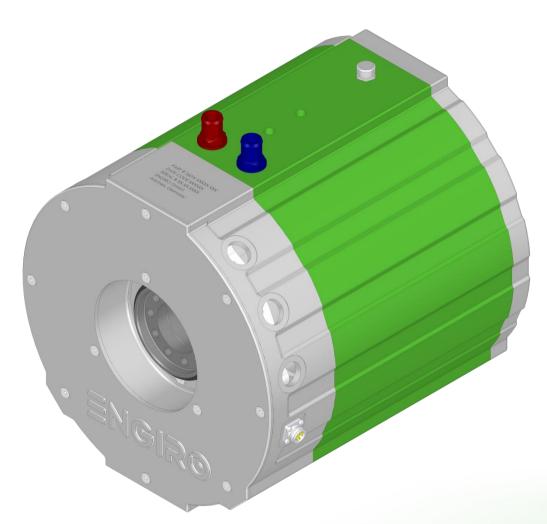


Data Sheet 260W-08028-ABC

water-cooled motor / generator with 93 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

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Technical Data Machine



1	Nominal Operation (S2, 6	0min, cooling	as specified	d below)		
Torque	T _{nom}				212	Nm
Power	P _{nom}					kW
Speed	n _{nom}				4200	rpm
Phase rms-current	I _{nom}				141 ^{1,2)}	A
Battery voltage (DC)	U _{nom}				700	V
Electric frequency	f _{el,nom}				340	Hz
Power factor	cos(φ)				0.73	
	Maximal Values (S2, 1	0s, cooling as	specified be	elow)		
Torque	T _{max}				443	Nm
Power	P _{max}		162			kW
Phase rms-current	I _{max}		352 ²⁾			A
Battery voltage (DC)	U _{max}		850			V
Speed	n _{max}		6000			rpm
Electric frequency	f _{el, max}		500			Hz
	Ele	ectrical Data				
Number of phases					3	
Number of pole pairs			5			
Maximal efficiency			96			%
T/I constant (I <i<sub>nom)</i<sub>					1.56	Nm/A _{rms}
U/n constant (AC) at a temperature of 30°C		rms:	94.0	peak:	145.7	V/(1000rpm)
$K_{\rm e}$ constant (AC) at a temperature of 30°C		rms:	0.180	peak:	0.278	V/(rad*s-1)
	Add	ditional Data				
Weight (w/o cables)					68	kg
Rotor moment of inertia			0.066			kg*m²
Protection category			IР6К9К ³⁾			
Maximal motor temperature			140			
Allowed ambient temperature			-20 454)			°C
Cooling (medium, flow rate, inlet temperature, pressure)		wate	water/glycol 50/50, 14 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 ¾" / 19 mm			

¹⁾ Nominal current strongly dependent on cooling as specified below.

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

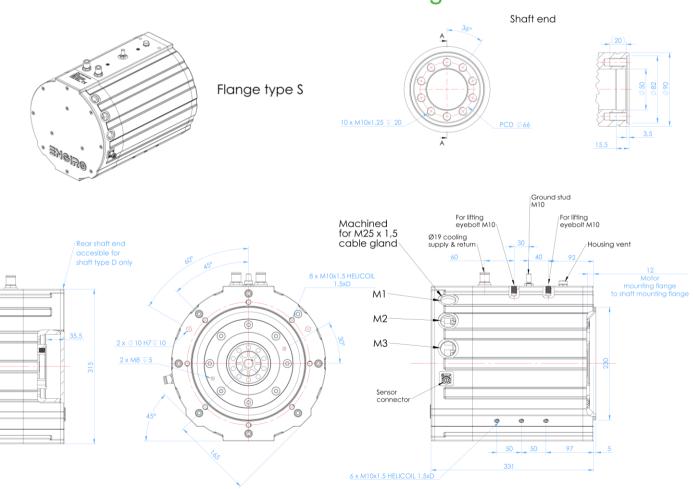
drive side of the motor (flange and/or shaft). Please contact ENGIRO for further questions. / Only applies to SFR Variant /

⁴⁾ other range on request

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Data Sheet 260W-08028-	Table Shaft and Flange Combinations					
Shaft and Flange Combinations for 260W-08028-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.



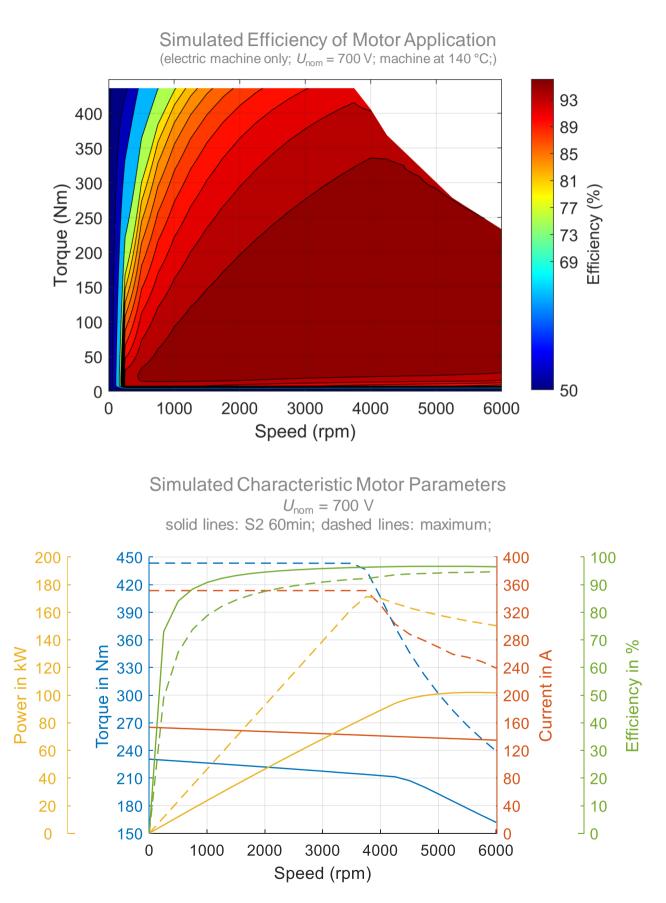
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Technical Drawings

Characteristics Machine





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