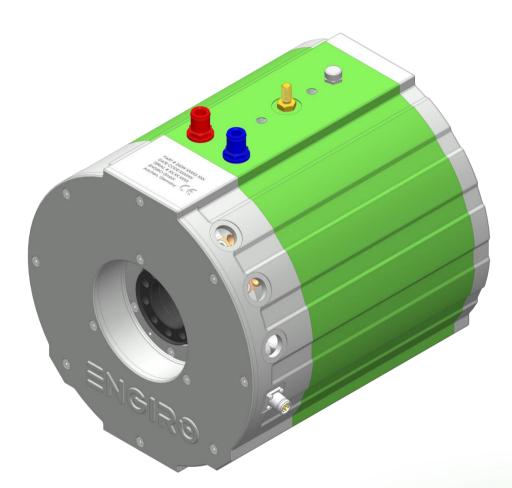


Data Sheet 260W-08058-ABC

water-cooled motor / generator with 47 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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Hc

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Technical Data Machine



Nominal	Operation (S2, 30n	nin, cooling a	as specified	d below)				
Torque	T _{nom}				222	Nm		
Power	P _{nom}	47			kW			
Speed	n _{nom}				1940	rpm		
Phase rms-current	I _{nom}				71 ^{1,2)}	А		
Battery voltage (DC)	U _{nom}				700	V		
Electric frequency	f _{el,nom}				161	Hz		
Power factor	cos(φ)				0.75			
Maximal Values (S2, 10s, cooling as specified below)								
Torque	T _{max}				443	Nm		
Power	P _{max}				80	kW		
Phase rms-current	I _{max}	170 ²⁾			А			
Battery voltage (DC)	U _{max}	850			\vee			
Speed	n _{max}	3600			rpm			
Electric frequency	f _{el, max}	300			Hz			
	Elect	rical Data						
Number of phases					3			
Number of pole pairs		5						
Maximal efficiency		96			%			
T/I constant (I <i<sub>nom)</i<sub>					3.22	Nm/A _{rms}		
U/n constant (AC) at a temperature of 30°C		rms:	194.8	peak:	275.5	V/(1000rpm)		
$K_{\rm e}$ constant (AC) at a temperature of 30°C		rms:	0.372	peak:	0.526	V/(rad*s-1)		
	Addit	ional Data						
Weight (w/o cables)					68	kg		
Rotor moment of inertia		0.066				kg*m²		
Protection category					IP6K9K ³⁾			
Maximal motor temperature		140				°C		
Allowed ambient temperature					-20 454)	°C		
Cooling (medium, flow rate, inlet temperature, pressure)		water/glycol 50/50, 14 l/min, \leq 45°C, \leq 0.5 bar						
Temperature monitoring		1 x KTY84-130						
Type approval		CE, EN 60034						
Customs tariff number 8501 5230								
	Connectors							
Power terminals		3 x M25 cable gland						
Signal connectors		M16, 10 Pin						
Signal connectors								

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.

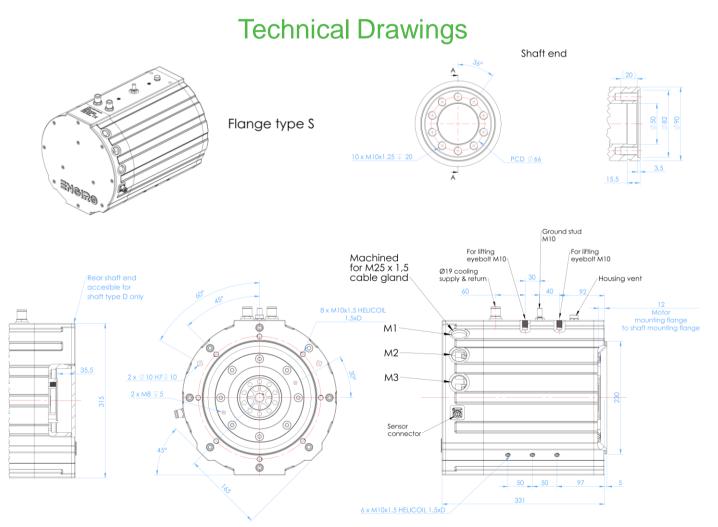
³⁾ Please note that the IP6K9K rating is only valid if the machine is installed with suitable cable glands and an appropriate sealed

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-08058-						
Shaft and Flange Combinations For 260W-08058-ABC		Flange (A) S (Standard)				
Shaft (B)	F (Hollow shaft with two screw flanges)	•				
Position Sensor (C)		R: Resolver N: None				

Other individual combinations are also possible on request.

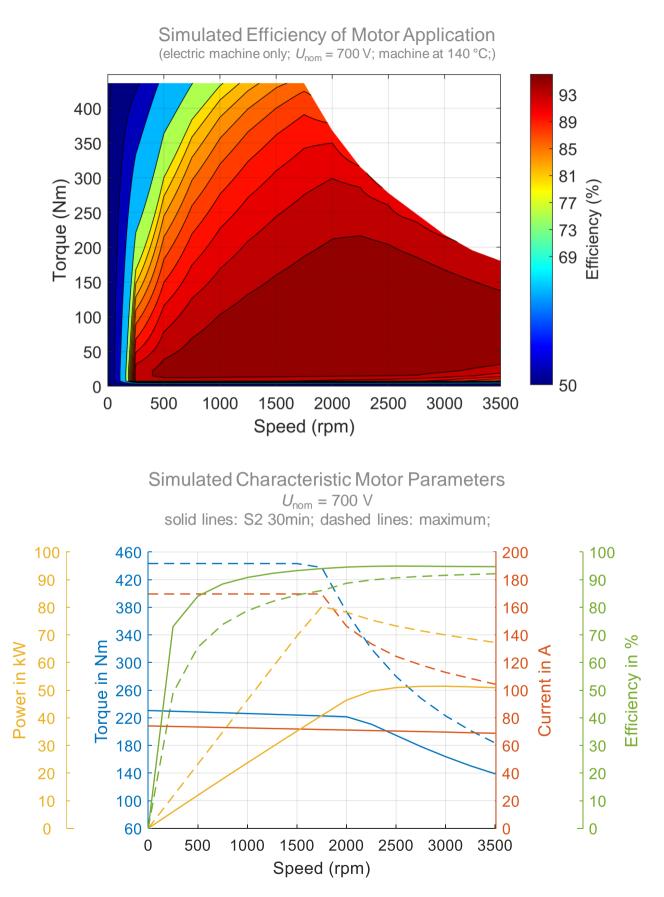


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Characteristics Machine





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