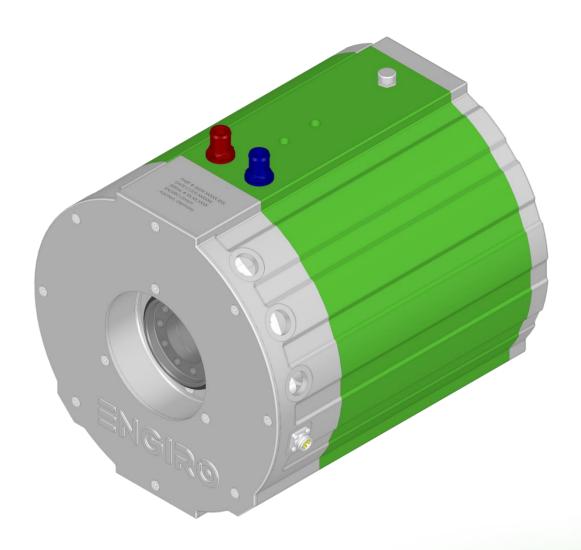


260W-10014-ABC

water-cooled motor / generator with 104 kW continuous 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 850V
- delivery with controller possible
- Double shaft end with screw flange

Hc

260W-10014-ABC

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Technical Data Machine



	Nominal Operation (S	1. cooling as sp	ecified belo	w)		
Torque	T_{nom}	i, eeemig ae ep		/	264	Nm
Power	P_{nom}		104			kW
Speed	n_{nom}		3690			rpm
Phase rms-current	I _{nom}		268 ^{1,2)}			
Battery voltage (DC)	U_{nom}		400			V
Electric frequency	$f_{el,nom}$	397 H			Hz	
Power factor	cos(φ)		0.73			
	Maximal Values (S2, 10	s, cooling as sp	ecified belo	ow)		
Torque	T_{max}				543	Nm
Power	P_{max}				194	kW
Phase rms-current	I _{max}		703 ²⁾ A			
Battery voltage (DC)	U_{max}		850 V			
Speed	n_{max}		6000 rpm			
Electric frequency	f _{el, max}		500 Hz			
	Ele	ctrical Data				
Number of phases			3			
Number of pole pairs		5				
Maximal efficiency		96 %		%		
// constant (I					0.98	Nm/A _{rms}
J/n constant (AC) at a temperature of 30°C		rms:	58.8	peak:	91.1	V/(1000rpm
constant (AC) at a temperature of 30°C		rms: 0.112 peak: 0.174 V/(rad*s		V/(rad*s-1)		
	Add	litional Data				
Weight (w/o cables)					77	kg
Rotor moment of inertia			0.077			kg*m²
Protection category		IP65 / IP69k				
Maximal motor temperature		140			°C	
Allowed ambient temperature			-20 45 ³) °(°C
Cooling (medium, flow rate, inlet te	oling (medium, flow rate, inlet temperature, pressure) water/glycol 50/50, 16 l/min, ≤ 45°C, ≤ 0.5 b		C, ≤ 0.5 bar			
Temperature monitoring		1 x KTY84-130				
Type approval		CE, EN 60034				
Customs tariff number		8501 5381				
	Co	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.

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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⁾ other range on request

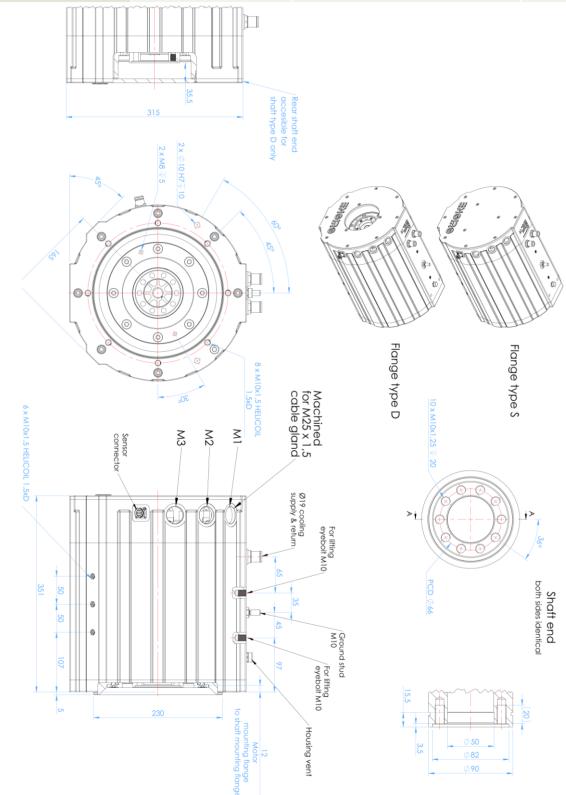
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Technical Drawings



Available Type Variants						
type number	A: flange	B: shaft	C: position sensor			
260W-10014-	S: standard	F: hollow shaft with two screw flanges	R: resolver			
	D: double		N: none			

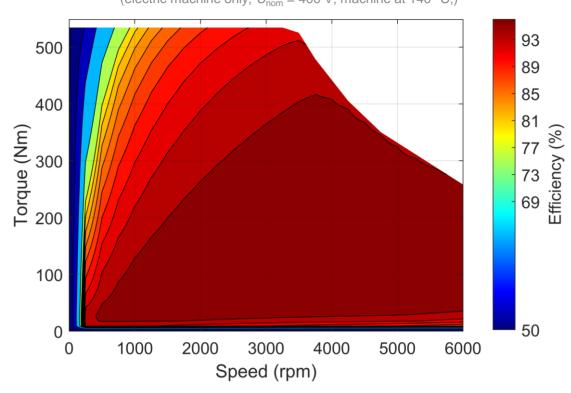


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Characteristics Machine



Simulated Efficiency of Motor Application (electric machine only; $U_{\text{nom}} = 400 \text{ V}$; machine at 140 °C;)



Simulated Characteristic Motor Parameters $U_{\text{nom}} = 400 \text{ V}$ solid lines: continuous; dashed lines: maximum;

