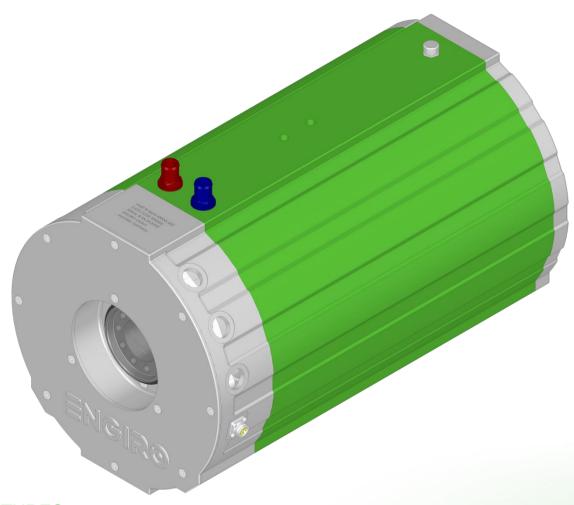


Data Sheet 260W-28018-ABC

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
- Double shaft end with screw flange

Hc

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Technical Data Machine



1	Nominal Operation (S2, 3	omin, cooling as	specified b	elow)		
Torque	T_{nom}			,	887	Nm
Power	P_{nom}		186 kW			
Speed	n_{nom}		2000			rpm
Phase rms-current	I _{nom}		264 ^{1,2)}			
Battery voltage (DC)	U_{nom}		700			V
Electric frequency	f _{el,nom}		166			Hz
Power factor	cos(φ)		0.74			
	Maximal Values (S2, 1	0s, cooling as sp	ecified belo	ow)		
Torque	T_{max}				1378	Nm
Power	P_{max}				256	kW
Phase rms-current	I _{max}		4422)			Α
Battery voltage (DC)	U_{max}		850			V
Speed	n_{max}		3340 rpm			
Electric frequency	f _{el, max}		278 H			
		ectrical Data				
Number of phases			3			
Number of pole pairs			5			
Maximal efficiency			96			%
T/I constant $(I < I_{nom})$					3.53	Nm/A _{rms}
U/n constant (AC) at a temperature of 30°C		rms:	211.6	peak:	328	V/(1000rpm)
K _e constant (AC) at a temperature of 30°C		rms:	0.404	peak:	0.626	V/(rad*s-1)
	Ado	ditional Data				
			149	kg		
Rotor moment of inertia						kg*m²
Protection category			IP6K9K ³⁾			
Maximal motor temperature			140			
Allowed ambient temperature			-20 45 ⁴⁾			°C
Cooling (medium, flow rate, inlet temperature, pressure)		water/	water/glycol 50/50, 28 l/min, ≤ 45°C, ≤ 0.5 bar			
Temperature monitoring			1 x KTY84-130			
rpe approval CE, EN 600		E, EN 60034				
Customs tariff number 8501 5381						
		onnectors				
Power terminals				cable gland		
Signal connectors			M16, 10 Pin			
Cooling connectors			2 x ¾" / 19 mm			

 $^{^{\}rm 1)}\,{\rm Nominal}\,$ 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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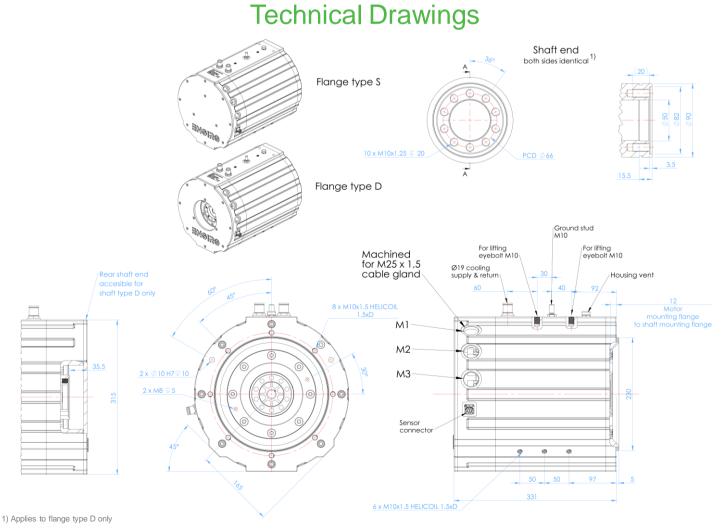
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Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-28018-ABC		Flange (A)			
		S (Standard)	D (Double)		
Shaft (B)	F (Hollow shaft with two screw flanges)	•	(●) DFR variant only approved for ≤ 3500rpm		
Position Sensor (C)		R: Resolver			

Other individual combinations are also possible on request.

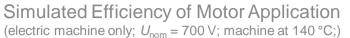


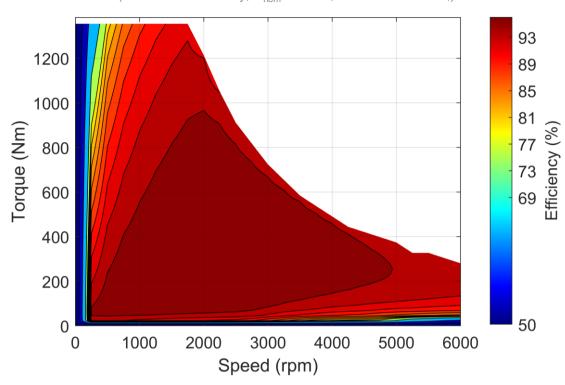
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Characteristics Machine







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

