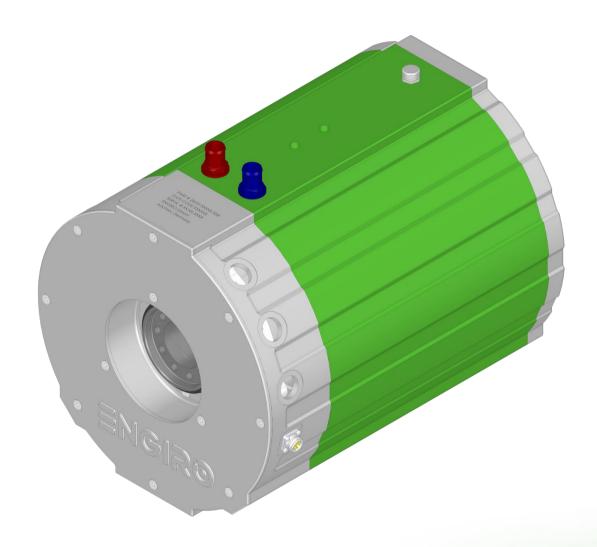


260W-15018-ABC

water-cooled motor/generator with up to 153 kW 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

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Technical Data Machine



Nom	inal Operation (S2,	60 min, cooling	as specifie <u>d</u>	below)			
Torque	T_{nom}		451		22 Nm		
Power	P_{nom}		93	15	53 kW		
Speed	n_{nom}		1910	339	50 rpm		
Phase rms-current	I _{nom}		2381,2)	2221	,2) A		
Battery voltage (DC)	U_{nom}		400	7(00 V		
Electric frequency	$f_{el,nom}$		159	2	79 Hz		
Power factor	cos(φ)		0.73	0.	73		
M	laximal Values (S2,	10s, cooling as	specified bel	ow)			
Torque	T_{max}		830	8	30 Nm		
Power	P_{max}		151	2	73 kW		
Phase rms-current	I _{max}		546 ²⁾	546	3 ²⁾ A		
Battery voltage (DC)	U_{max}			8	50 V		
Speed	n_{\max}			60	00 rpm		
Electric frequency	f _{el, max}			5	00 Hz		
	E	lectrical Data					
Number of phases					3		
Number of pole pairs					5		
Maximal efficiency				!	96 %		
T/I constant (I <i<sub>nom)</i<sub>				1.8	39 Nm/A _{rms}		
U/n constant (AC) at a temperature of 30°C		rms:	113.3	peak: 175	.6 V/(1000rpm		
K _e constant (AC) at a temperature of 30°C		rms:	0.216	peak: 0.33	35 V/(rad*s ⁻¹)		
	Ad	dditional Data					
Weight (w/o cables)				,	97 kg		
Rotor moment of inertia			0.104				
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, 18 l/min, ≤ 45°C, ≤ 0.5 bar				
Temperature monitoring			1 x KTY84-130				
Type approval			CE, EN 60034				
Customs tariff number 8501 5381			31				
	Connectors						
Power terminals	ower terminals 3 x M25 cable gland		nd				
Signal connectors				M16, 10 F	in		
Cooling connectors				2 x ¾" / 19 m			

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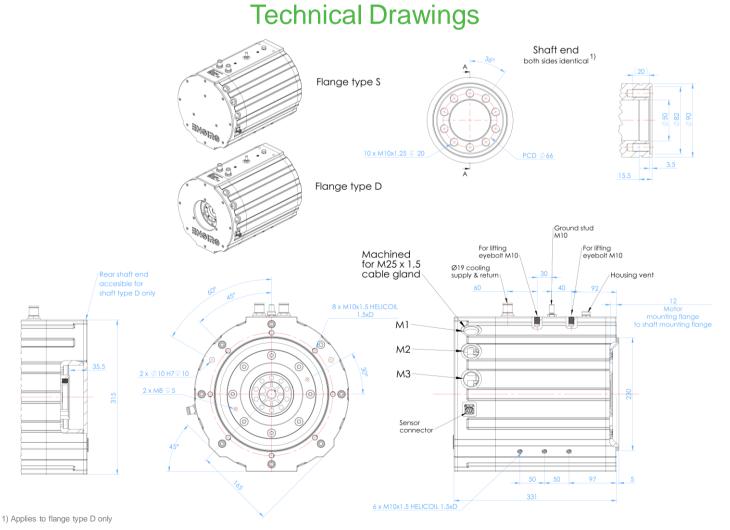
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Table Shaft and Flange Combinations



Shaft and Flange Combinations for 260W-15018-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.

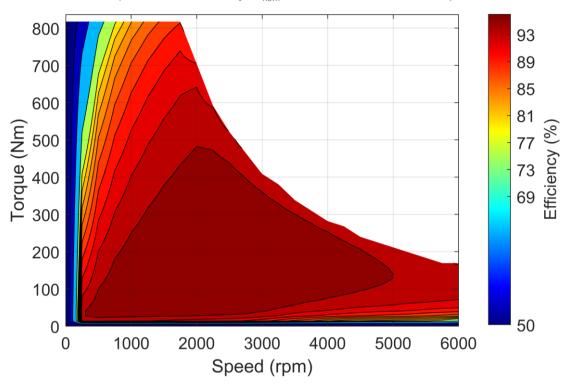


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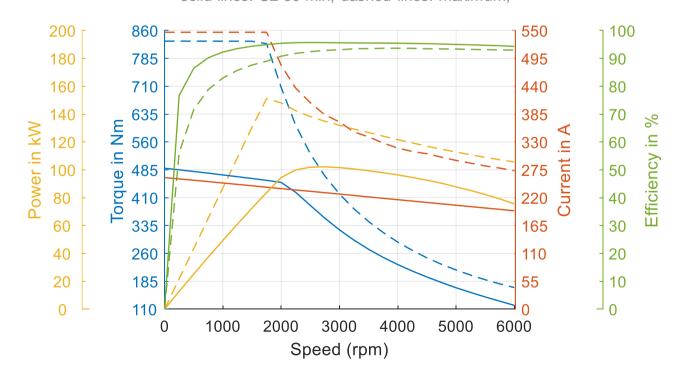
Characteristics Machine







Simulated Characteristic Motor Parameters $U_{\text{nom}} = 400 \text{ V}$ solid lines: S2 60 min; dashed lines: maximum;

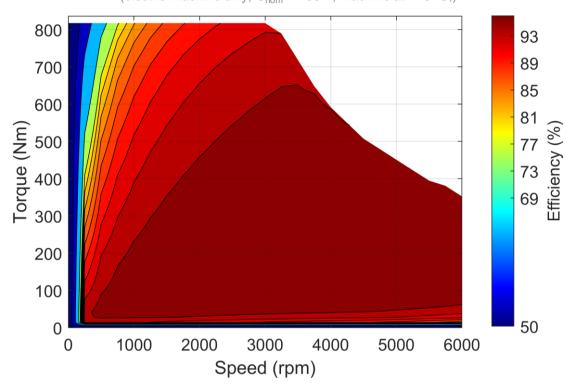


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Characteristics Machine







Simulated Characteristic Motor Parameters $U_{\text{nom}} = 700 \text{ V}$ solid lines: S2 60 min; dashed lines: maximum;

