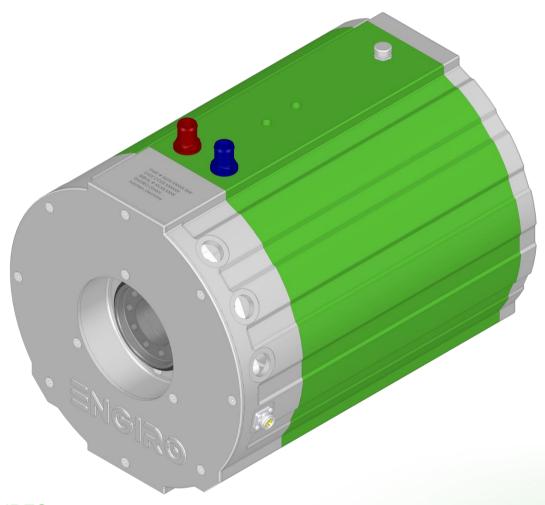


Data Sheet 260W-15031-ABC

water-cooled motor / generator with 94 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 available

Hc

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Technical Data Machine



	Nominal Operation (S2, 6	0min, cooling as	specified b	elow)		
Torque	T_{nom}				451	Nm
Power	P_{nom}					kW
Speed	n_{nom}		1940			rpm
Phase rms-current	I _{nom}		138 ^{1,2)}			Α
Battery voltage (DC)	U_{nom}		700			V
Electric frequency	$f_{el,nom}$		161			Hz
Power factor	cos(φ)		0.83			
	Maximal Values (S2, 1	0s, cooling as sp	ecified belo	ow)		
Torque	T_{max}				830	Nm
Power	P_{max}		152 k\			
Phase rms-current	I _{max}		3182)			А
Battery voltage (DC)	U_{max}		700			V
Speed	n_{\max}		3620 rpm			
Electric frequency	f _{el, max}		302			Hz
		ectrical Data				
Number of phases		3				
Number of pole pairs		5				
Maximal efficiency		96		%		
7/I constant (I <i<sub>nom)</i<sub>					3.2	Nm/A _{rms}
U/n constant (AC) at a temperature of 30°C		rms:	195.2	peak:	302.5	V/(1000rpm
$K_{\rm e}$ constant (AC) at a temperature of 30°C		rms:	0.373	peak:	0.578	V/(rad*s-1)
	Ado	ditional Data				
Weight (w/o cables)			97 kg			kg
Rotor moment of inertia			0.104			kg*m²
Protection category			IP6K9K ³⁾			
Maximal motor temperature			140			
Allowed ambient temperature		-20 45 ⁴)			°C	
poling (medium, flow rate, inlet temperature, pressure) water/glycol 50/50, 18 l/min, ≤ 45°C, ≤ 1		l5°C, ≤ 1 bar				
nperature monitoring 1 x KTY84-		k 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			

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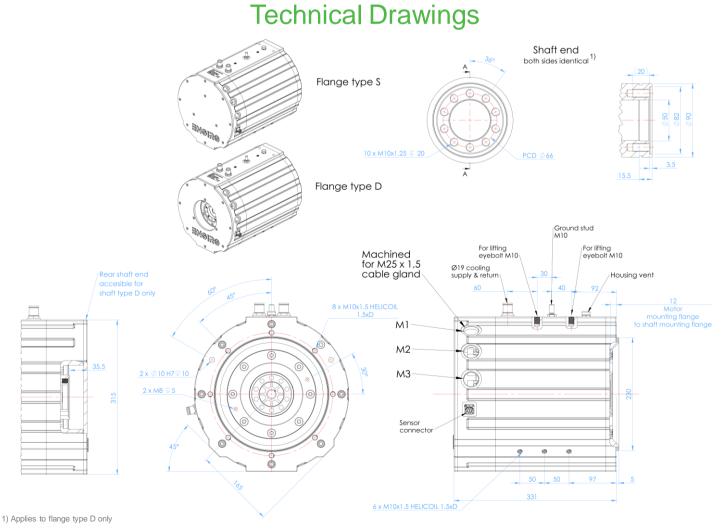
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Table Shaft and Flange Combinations



Shaft and Flange Combinations		Flange (A)			
	for DW-15031-ABC	S (Standard)	D (Double)		
Shaft (B)	F (Hollow shaft with two screw flanges)	•	•		
Position Sensor (C)		R: Resolver			

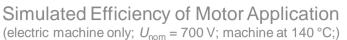
Other individual combinations are also possible on request.

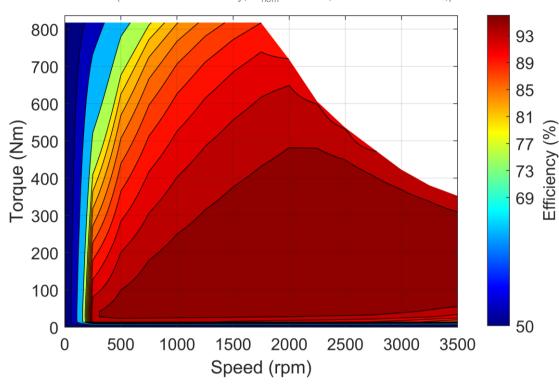


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Characteristics Machine







Simulated Characteristic Motor Parameters

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

