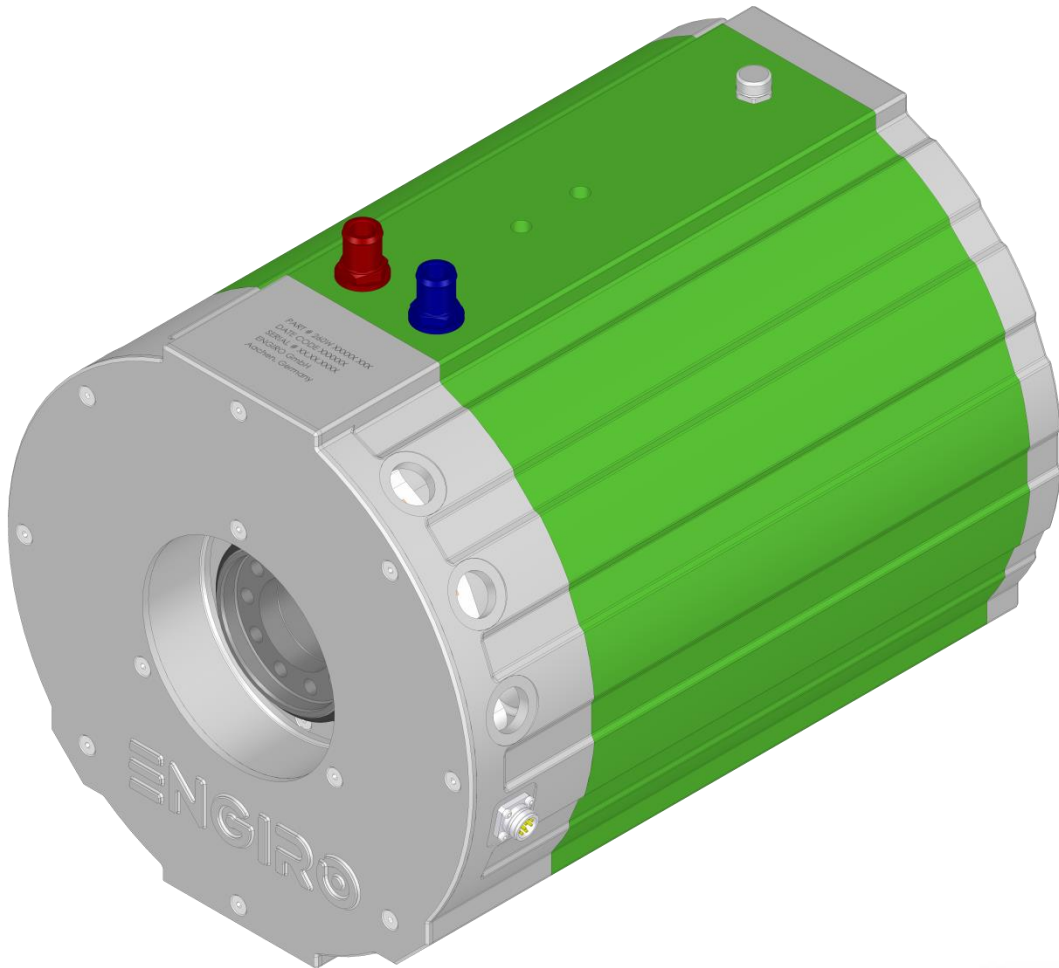


260W-15018-ABC

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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Characteristics Machine – 700V	

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Nominal Operation (S2, 60 min, cooling as specified below)

Torque	T_{nom}	451	422	Nm
Power	P_{nom}	93	153	kW
Speed	n_{nom}	1910	3350	rpm
Phase rms-current	I_{nom}	238 ^{1,2)}	222 ^{1,2)}	A
Battery voltage (DC)	U_{nom}	400	700	V
Electric frequency	$f_{el,nom}$	159	279	Hz
Power factor	$\cos(\varphi)$	0.73	0.73	

Maximal Values (S2, 10s, cooling as specified below)

Torque	T_{max}	830	830	Nm
Power	P_{max}	151	273	kW
Phase rms-current	I_{max}	546 ²⁾	546 ²⁾	A
Battery voltage (DC)	U_{max}		850	V
Speed	n_{max}		6000	rpm
Electric frequency	$f_{el,max}$		500	Hz

Electrical Data

Number of phases			3	
Number of pole pairs			5	
Maximal efficiency			96	%
T/I constant ($I < I_{nom}$)			1.89	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:	0.335 V/(rad*s ⁻¹)

Additional Data

Weight (w/o cables)		97	kg
Rotor moment of inertia		0.104	kg*m ²
Protection category		IP6K9K ³⁾	
Maximal motor temperature		140	°C
Allowed ambient temperature		-20 ... 45 ⁴⁾	°C
Cooling (medium, flow rate, inlet temperature, pressure)		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	

Connectors

Power terminals		3 x M25 cable gland	
Signal connectors		M16, 10 Pin	
Cooling connectors		2 x 3/4" / 19 mm	

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.

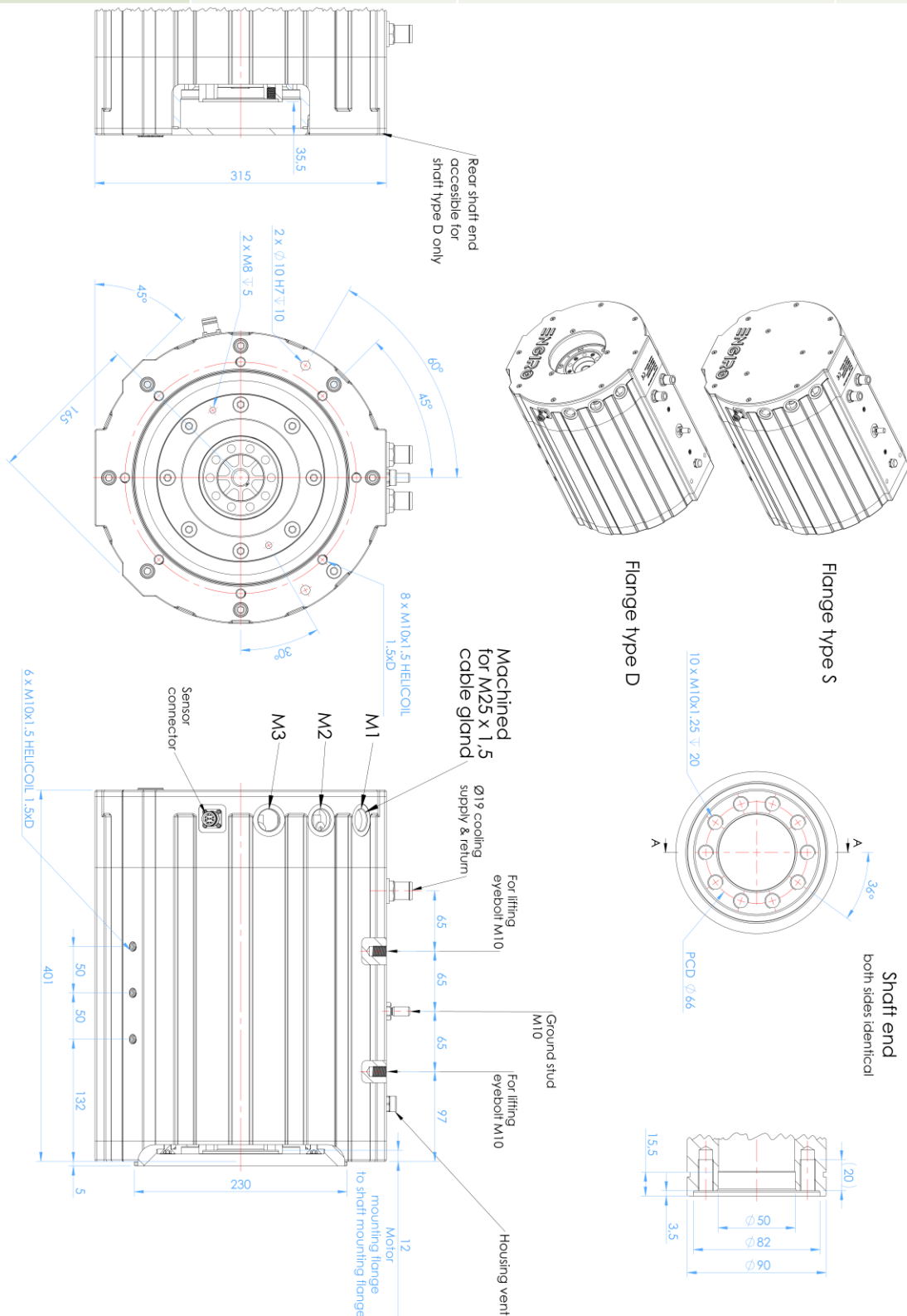
³⁾ Please note that the IP6K9K rating is only valid if the machine is installed with suitable cable glands and an appropriate sealed interface at the drive side of the motor (flange and/or shaft). Please contact ENGIRO for further questions. / Only applies to SFR Variant /

⁴⁾ other range on request

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Available Type Variants

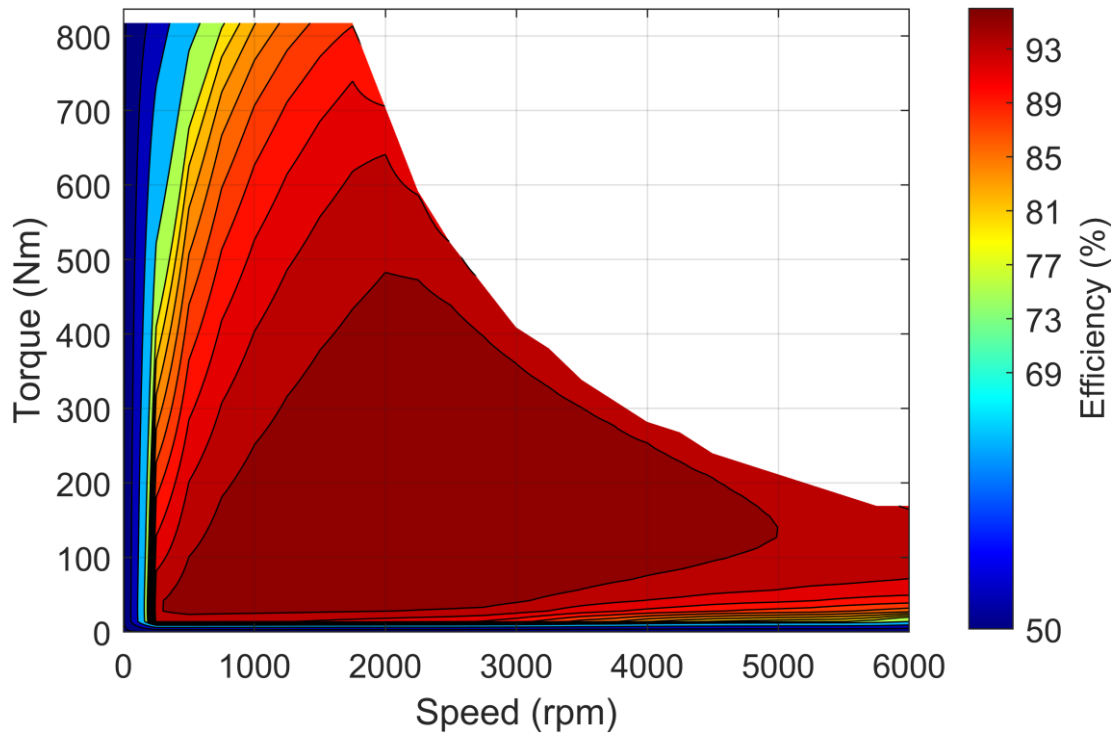
type number	A: flange	B: shaft	C: position sensor
260W-15018-	S: standard	F: hollow shaft with two screw flanges	R: resolver
	D: double		N: none



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Simulated Efficiency of Motor Application

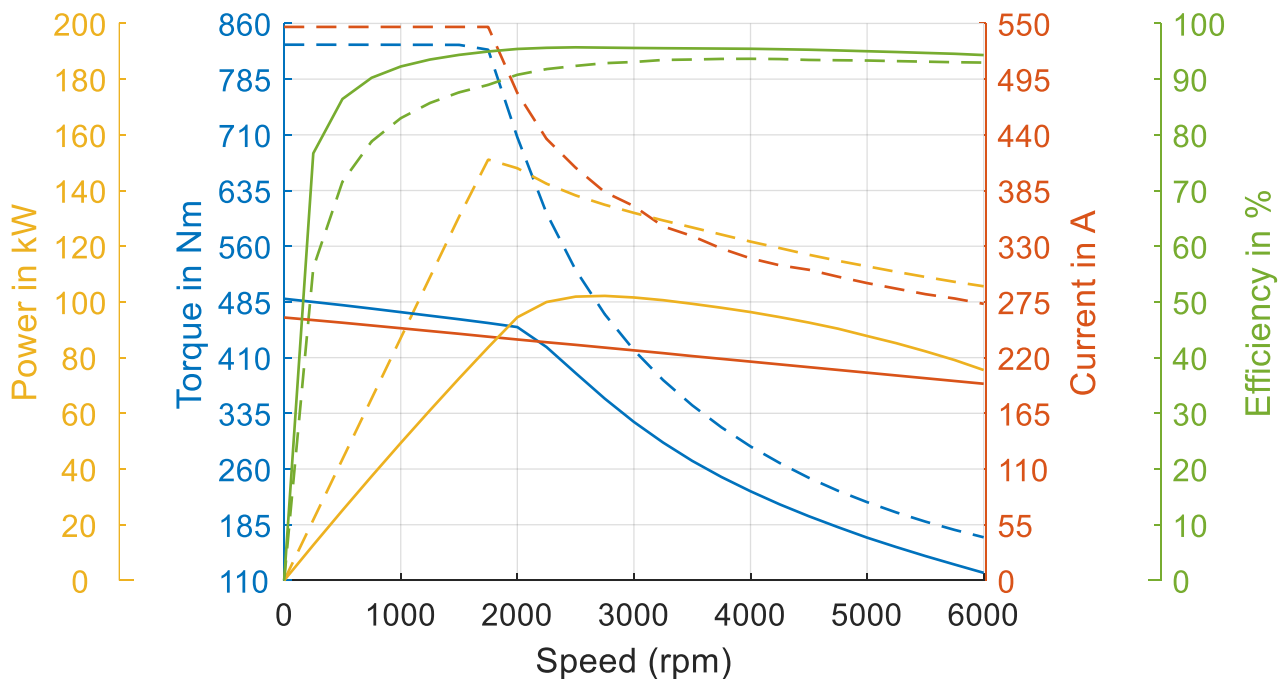
(electric machine only; $U_{\text{nom}} = 400 \text{ V}$; machine at $140 \text{ }^{\circ}\text{C}$;))



Simulated Characteristic Motor Parameters

$U_{\text{nom}} = 400 \text{ V}$

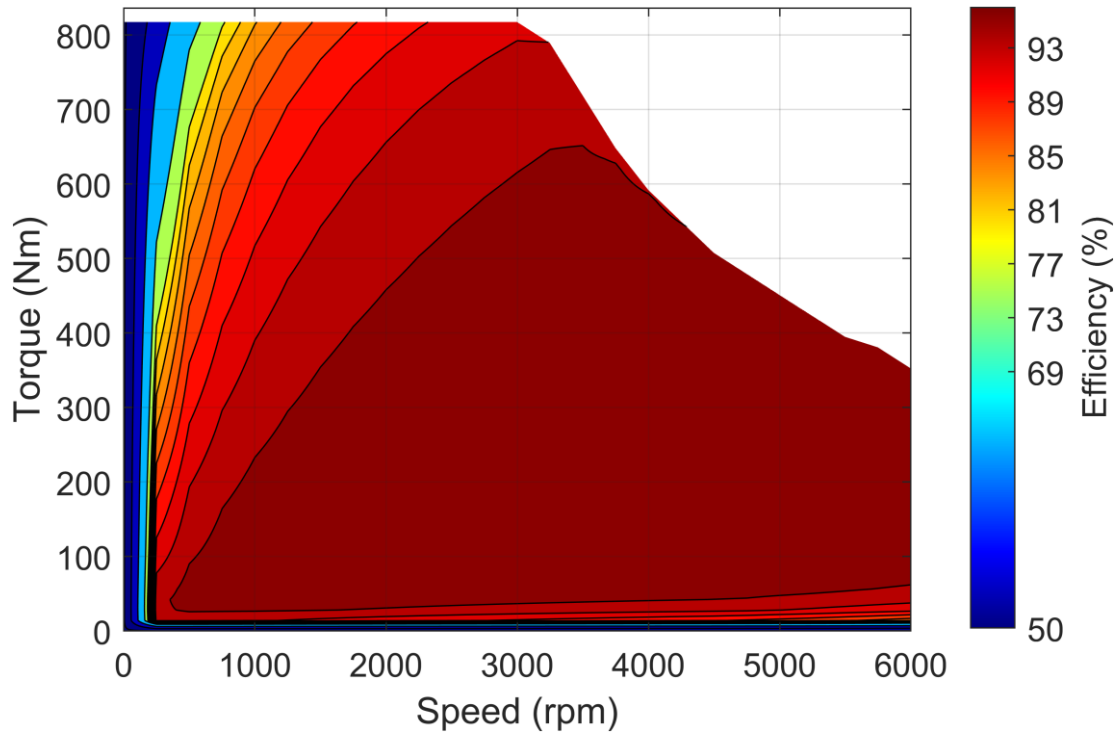
solid lines: S2 60 min; dashed lines: maximum;



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Simulated Efficiency of Motor Application

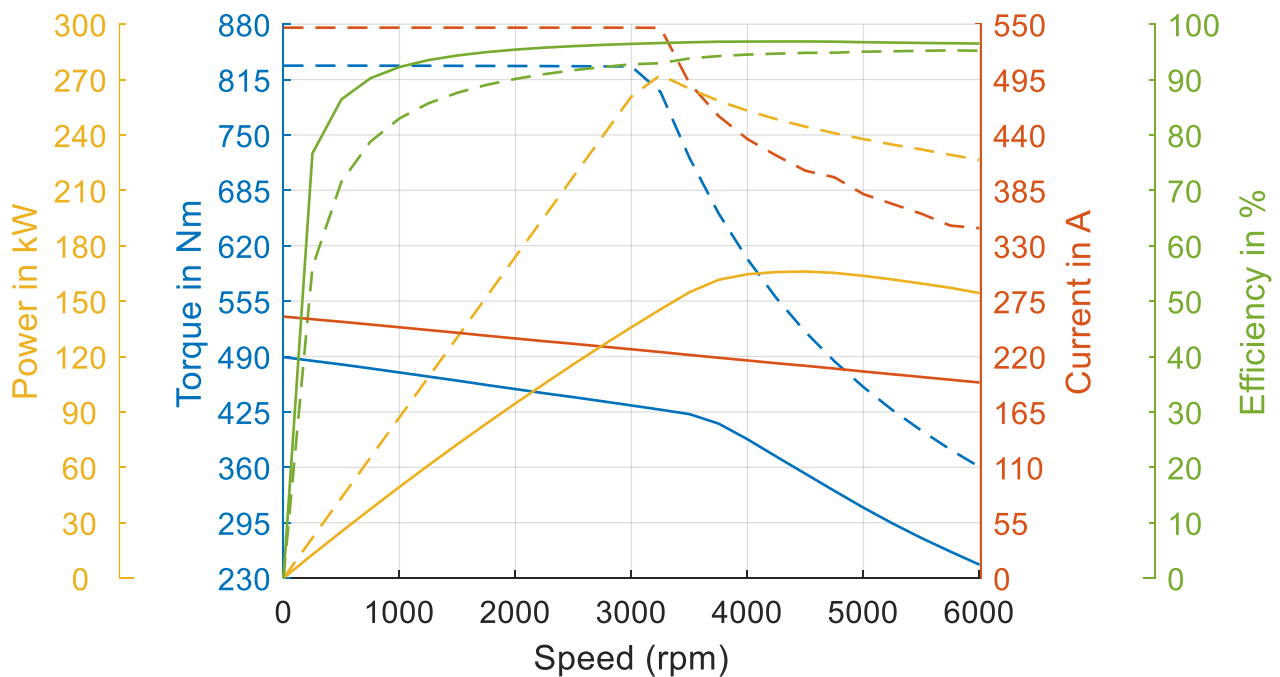
(electric machine only; $U_{\text{nom}} = 700 \text{ V}$; machine at $140 \text{ }^{\circ}\text{C}$;))



Simulated Characteristic Motor Parameters

$U_{\text{nom}} = 700 \text{ V}$

solid lines: S2 60 min; dashed lines: maximum;



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