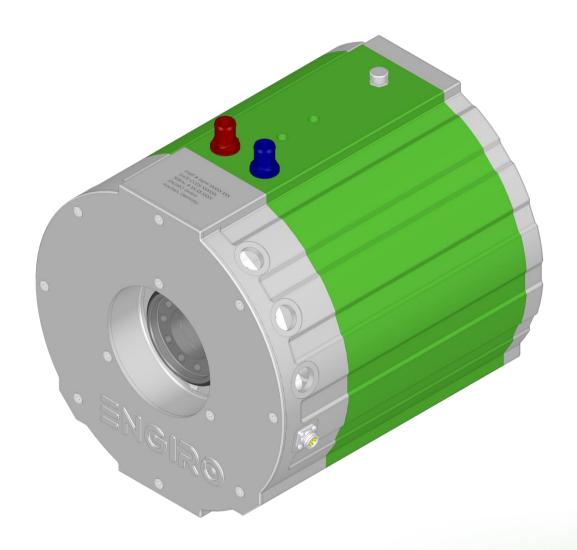


260W-08028-ABC

water-cooled motor / generator with 93 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



No	minal Operation (S2, 6	60min, cooling	as specified b	pelow)			
Torque	T_{nom}				212	Nm	
Power	P_{nom}		93				
Speed	n_{nom}		4200				
Phase rms-current	I _{nom}				1411,2)	А	
Battery voltage (DC)	U _{nom}		700				
Electric frequency	$f_{el,nom}$		340				
Power factor	cos(φ)				0.73		
	Maximal Values (S2, 1	0s, cooling as	specified belo	ow)			
Torque	T_{max}				443	Nm	
Power	P_{max}		162				
Phase rms-current	I _{max}		352 ²⁾				
Battery voltage (DC)	U_{max}		850 V				
Speed	n_{max}		6000 rpm				
Electric frequency	$f_{el,{ m max}}$				500	Hz	
	Ele	ectrical Data					
Number of phases					3		
Number of pole pairs			5				
Maximal efficiency					96	%	
T//constant (I <i<sub>nom)</i<sub>					1.56	Nm/A _{rms}	
U/n constant (AC) at a temperature of 30°C		rms:	94.0	peak:	145.7	V/(1000rpm)	
K _e constant (AC) at a temperature of 30°C		rms:	0.180	peak:	0.278	V/(rad*s-1)	
	Ad	ditional Data					
Weight (w/o cables) 68						kg	
Rotor moment of inertia		0.066					
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, 14 l/min, ≤ 45°C, ≤ 0.5 bar				
Temperature monitoring			1 x KTY84-130				
Type approval		CE, EN 60034					
Customs tariff number					8501 5381		
	C	Connectors					
Power terminals			3 x M25 cable gland				
Signal connectors		M16, 10 Pin					
					³⁄₄" / 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⁾ 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 /

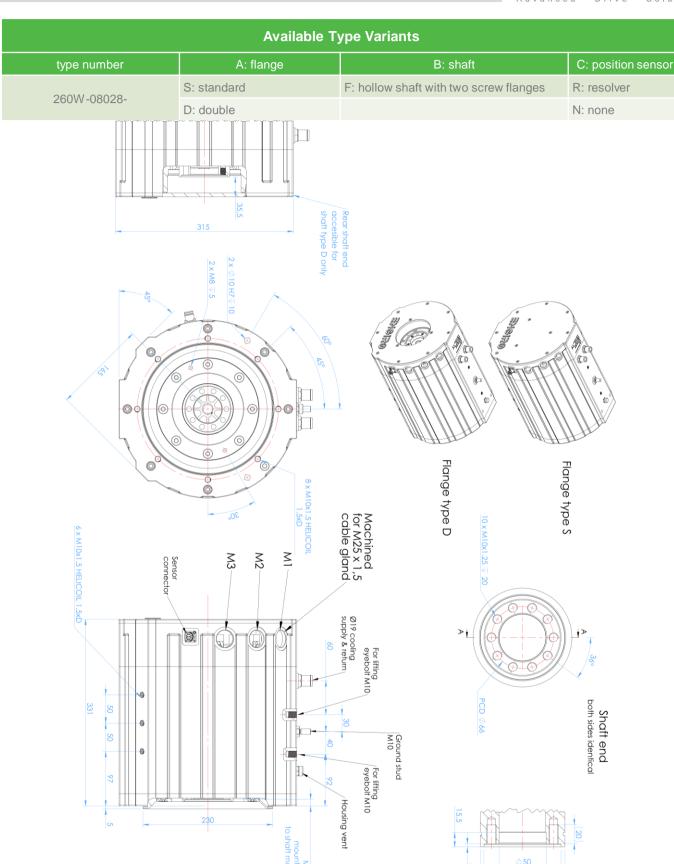
⁴⁾ other range on request

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Technical Drawings





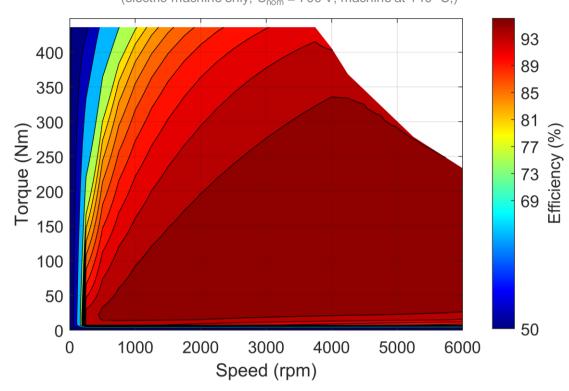
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Characteristics Machine



Simulated Efficiency of Motor Application (electric machine only; $U_{\text{nom}} = 700 \text{ V}$; machine at 140 °C;)



Simulated Characteristic Motor Parameters

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

