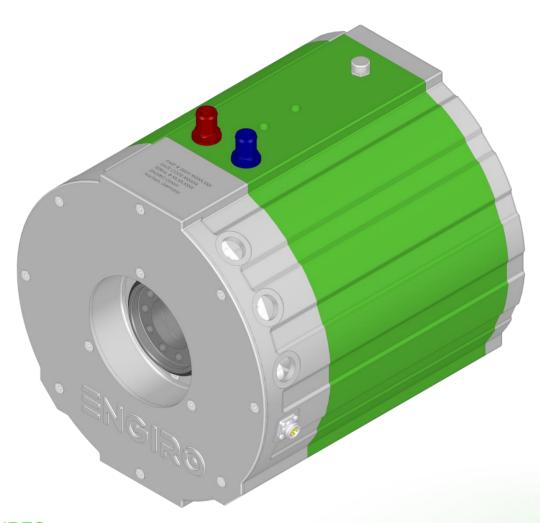


260W-08011-ABC

water-cooled motor/generator with up to 32 kW power



KEY FEATURES

- permanent magnet synchronous machine
- water-cooled
- high peak power for motor applications
- convincing cost-benefit ratio
- recommended voltage range from 48V to 96V
- delivery with controller possible
- Double shaft end with screw flange

Hc

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Note:

On September 1st, 2024, we transferred our ERP systems to SAP. Due to this change, we are altering our current part numbers.

From now on, configurations regarding the rear interface of the motor (e.g., accessible rear shaft end, closed, ...) will be specified in a separate part of the motor naming. Therefore, all 260W **D1-flanges will be renamed to S1-flanges** with the according B-side specification.

To see how our article numbers and motor naming scheme has changed, please consider the conversion table below:

Article number conversion						
Part.no.	Old part.no.	Flange	Shaft	Position sensor	B-side interface	
4807274	260W_08011_SFR	S1	F1	R	S11	
4807273	260W_08011_DFR	S1	F1	R	D01	

To be noted:

The information in this technical data sheet is based on our current knowledge and experience. Due to the wide range of possible influences during application, they do not exempt the processor and user from carrying out their own tests and trials. Although the suitability for a specific application can be estimated from our information, a legally binding assurance is by no means possible. Depending on the individual case, we recommend consultation with us. Any industrial property rights and applicable laws must be observed by the recipient of our products on his own responsibility.

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Operating Range



					112/101		ATIONAL
Nominal	Operation (S2, 30min, cool	ing as s	pecifi	ed bel	ow)		
Torque	T_{nom}		221				Nm
Power	P_{nom}					32	kW
Speed	n_{nom}					1400	rpm
Phase rms-current	I_{nom}					3791,2)	А
Battery voltage (DC)	U_{nom}					96	V
Electric frequency	$f_{el, { m nom}}$					116	Hz
Power factor	cos(φ)					0.74	
Maxir	mal Values (S2, 10s, cooling	as spec	cified	below))		
Torque	T_{max}					444	Nm
Power	P_{max}					57	kW
Phase rms-current	I _{max}		895 ²⁾				А
Battery voltage (DC)	U_{max}					200	V
Speed	n_{\max}		3500				rpm
Electric frequency	f _{el, max}		291				
	Electrical Dat	a					
Number of phases						3	
Number of pole pairs			5				
Maximal efficiency						96	%
T/I constant (I <i<sub>nom)</i<sub>						Nm/A _{rms}	
UIn constant (AC) at a temperature of 30°C			rms:	37.0	peak:		V/(1000rpm)
$K_{\rm e}$ constant (AC) at a temperature of 30°C			rms:	0.071	peak:	0.11	V/(rad*s-1)
	Additional Dat	ta					
Weight (w/o cables)						68	kg
Rotor moment of inertia							kg*m²
Protection category			IP6K9K ³⁾				_
Maximal motor temperature						140	°C
Allowed ambient temperature				°C			
Cooling (medium, flow rate, inlet temperature, pressure)			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				
	Connectors						
Power terminals				3 :	x M32 cat	ole gland	
Signal connectors			M16, 10 Pin				
Cooling connectors						/ 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 variants with closed B-side / 4) other range on request

Available Type Variants **ENGI**



Available Type Variants						
Flange	Shaft	Pos. sensor	B-side interface	Weight (kg)		
S1	F1	R	S11 Closed B-side	e. CO ke		
Flange with mounting threads (Ø230 mm centering, Ø250 PCD 8 x M10)	Hollow shaft with screw flange (Ø90 and Ø50 mm centering, Ø66 mm PCD 10 x M10)	Resolver	D01 ¹) Shaft interface on b-side (Ø90 and Ø50 mm centering, Ø66 mm PCD 10x M10)	≈ 68 kg		

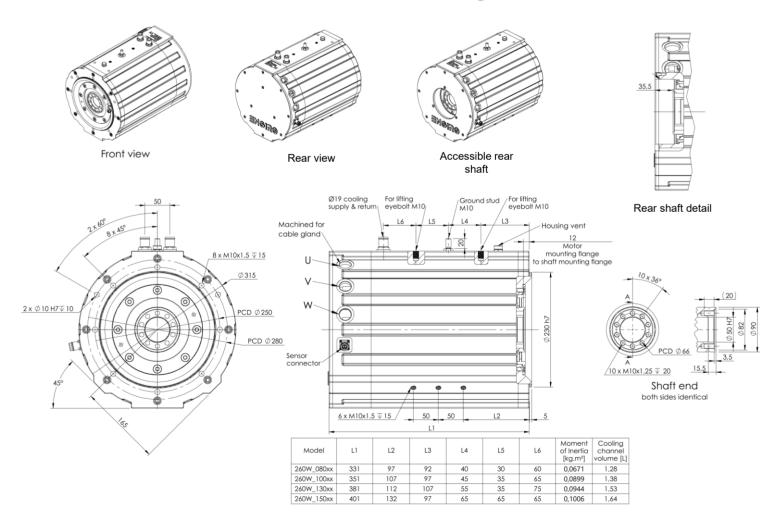
Other individual combinations are also possible on request.

1) Only approved for n ≤ 3500 rpm

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Technical Drawings

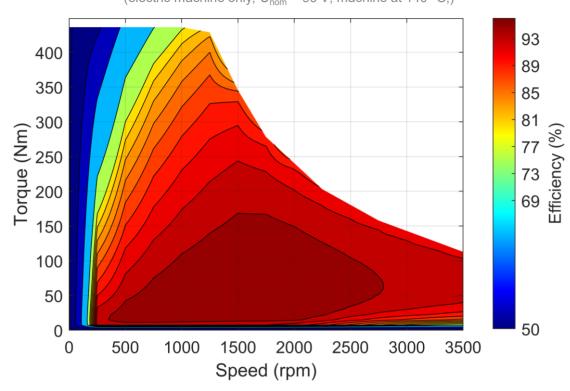


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Performance Plots







Simulated Characteristic Motor Parameters $U_{\text{nom}} = 96 \text{ V}$ solid lines: S2 30min; dashed lines: maximum;

