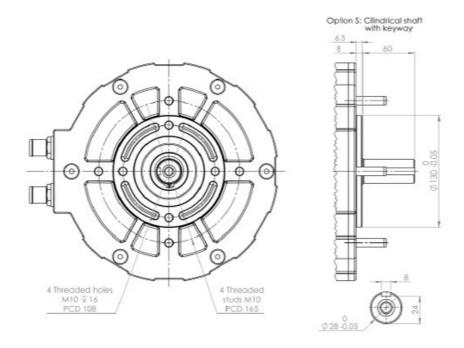
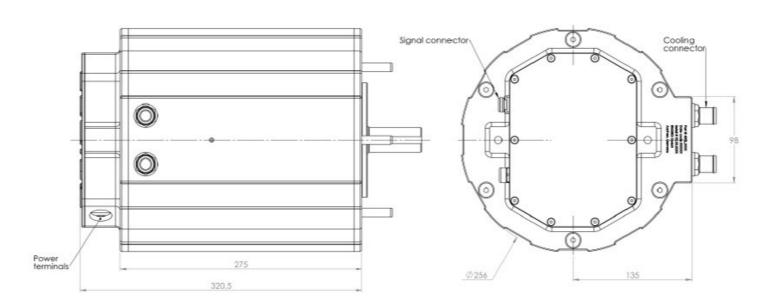
Technical Data Machine

	Nominal Operation (S	1, cooling as spe	ecified belo	w)		
Torque	T _{nom}		134		134	Nm
Power	P _{nom}		14		28	kW
Speed	n _{nom}		990		2000	rpm
Phase rms-current	I _{nom}		385		385	A
Battery voltage (DC)	U _{nom}		48		96	V
Electric frequency	f _{el,nom}		66		147	Hz
Power factor	cos(φ)		0.81		0.80	
	Maximal Values (S2, 10	Os, cooling as sp	ecified belo	ow)		s)
Torque	T _{max}		285		285	Nm
Power	P _{max}		27 56			kW
Phase rms-current	I _{max}		961 961			A
Battery voltage (DC)	U _{max}		200			V
Speed	n _{max}		5700			rpm
Electric frequency	f _{el, max}				380	Hz
	9	ctrical Data				
Number of phases					3	
Number of pole pairs			4			
Maximal efficiency			>96			
T// constant (I					0.35	Nm/A _{rms}
UIn constant (AC)		rms:	23.8	peak:	33.7	V/(1000rpm
K _e constant (AC)		rms:	0.057	peak:	0.080	V/(rad*s ⁻¹)
	Add	litional Data				
Weight (w/o cables)			44			
Rotor moment of inertia			0.03512			
Protection category			IP65 / IP69k			
Maximal rotor temperature			150			
Allowed ambient temperature			-20 45 ¹⁾			
Cooling (medium, flow rate, inlet temperature, pressure)		water	water/glycol 50/50, 6 l/min, ≤ 60°C, ≤ 0.5 bar			
Temperature monitoring			1 x KTY84-130			
Type approval			CE, EN 60034			
Customs tariff number		8501 5230				
	C	onnectors				
Power terminals			3 x M25 cable gland			
Signal connectors			M16, 10 Pin			
Cooling connectors			2 x ¾" / 19 mm			

1) other range on request

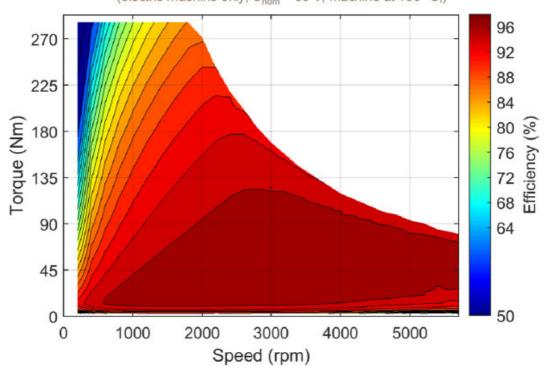
Technical Drawings



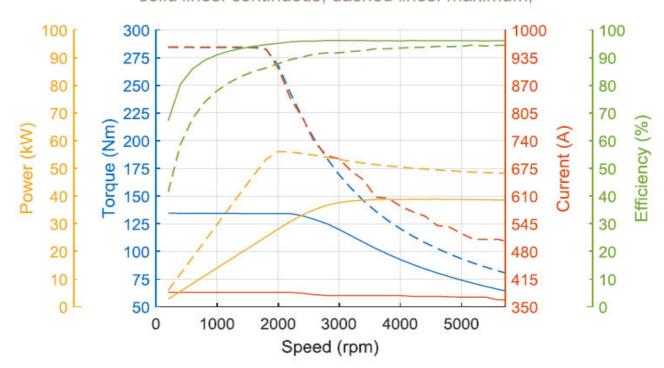


Characteristics Machine

Simulated Efficiency of Motor Application (electric machine only; $U_{nom} = 96 \text{ V}$; machine at 100 °C;)



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



Technical Data Inverter Set

	Nominal Operation Drive Set –	116V (S1)	
Torque	T _{nom}	134	Nm
Power	P _{nom}	28	kW
Speed	n _{nom}	2000	rpm
Phase rms-current	I _{nom}	385	A
Battery voltage (DC)	U _{nom}	116	V
Electric frequency	f _{el,nom}	147	Hz
Power factor	cos(φ)	0.80	
	Maximal Values Drive Set (S2	, 1-10s)	8
Torque	T _{max}	220	Nm
Power	P _{max}	51	kW
Phase rms-current	I _{max}	660	A
Battery voltage (DC)	U _{max}	116	V
Speed	n _{max}	5350	rpm
Electric frequency	f _{el, max}	357	Hz

Simulated Efficiency and Motor Characteristic of Motor Application

(electric machine only; U_{nom} = 116 V; machine at 100 °C;)

