

PMS 150, -

Preliminary Datasheet

2015-06-23

Motor type			
Motor		PMS 150	
Motor ID		-	
Winding-No.		-	
No. of poles	2p	8	
Cooling		Air-cooled with at least 5m/s	

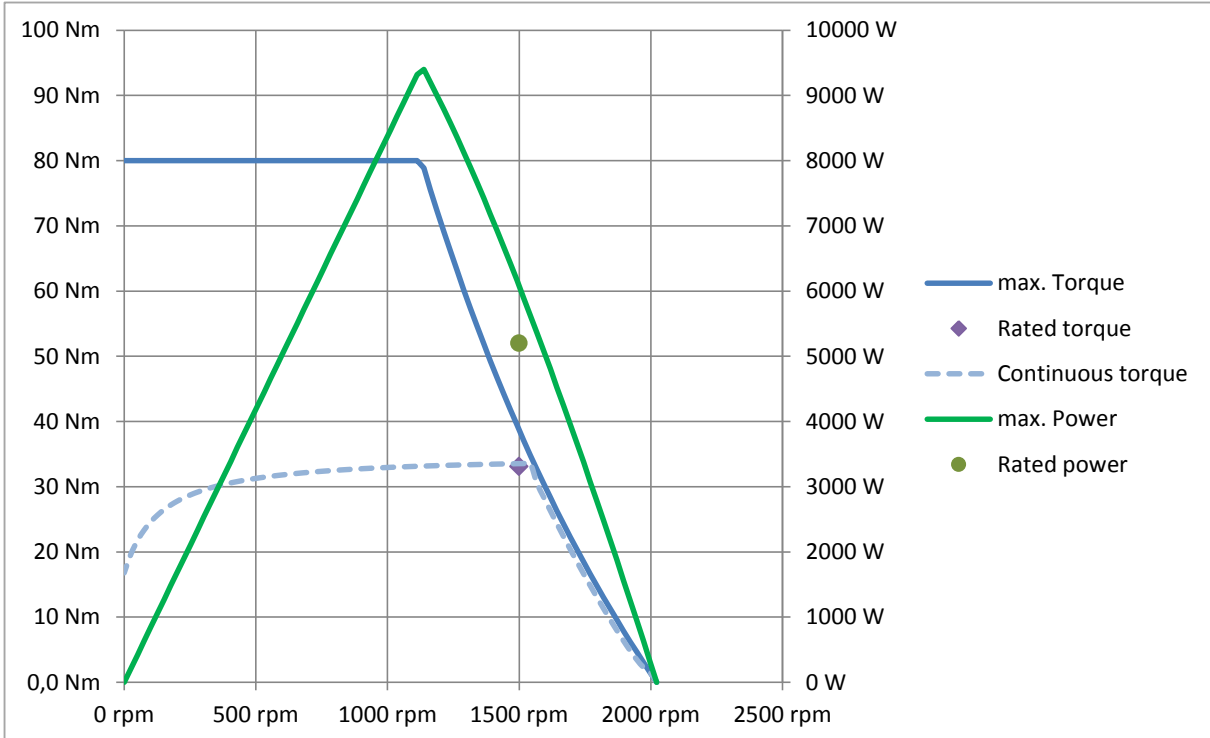
Electrical data			
DC link voltage	U_{dc}	48	VDC
EMF constant	K_E	16,8	V/1000rpm
Torque constant	K_M	0,254	Nm/A
Winding resistance	R_{2ph}	17,1	m Ω
Winding inductance	L_{2ph}	105	μ H

Operation point 1			
Operational mode		S1	
Rated motor voltage	U_n	32,7	VAC
Nominal speed	n_n	1500	rpm
Rated torque	M_n	33,1	Nm
Rated power	P	5,2	kW
Rated AC current	I_n	130	A
Frequency	f_n	100	Hz
Efficiency	η	89,5	%

Mechanical data			
Maximum allowable speed	n_{max}	2020	rpm
Short-time peak power	P_{max}	9,3	kW
Short-time peak torque	M_{max}	80	Nm
Short-time peak current	I_{max}	320	A
Moment of inertia	J	58,6	kg cm ²
Mass	m	22,3	kg
Air gap	s	1,5	mm
Magnet material		N35UH	
Special version		...	

Sensor system			
Temperature sensor		...	

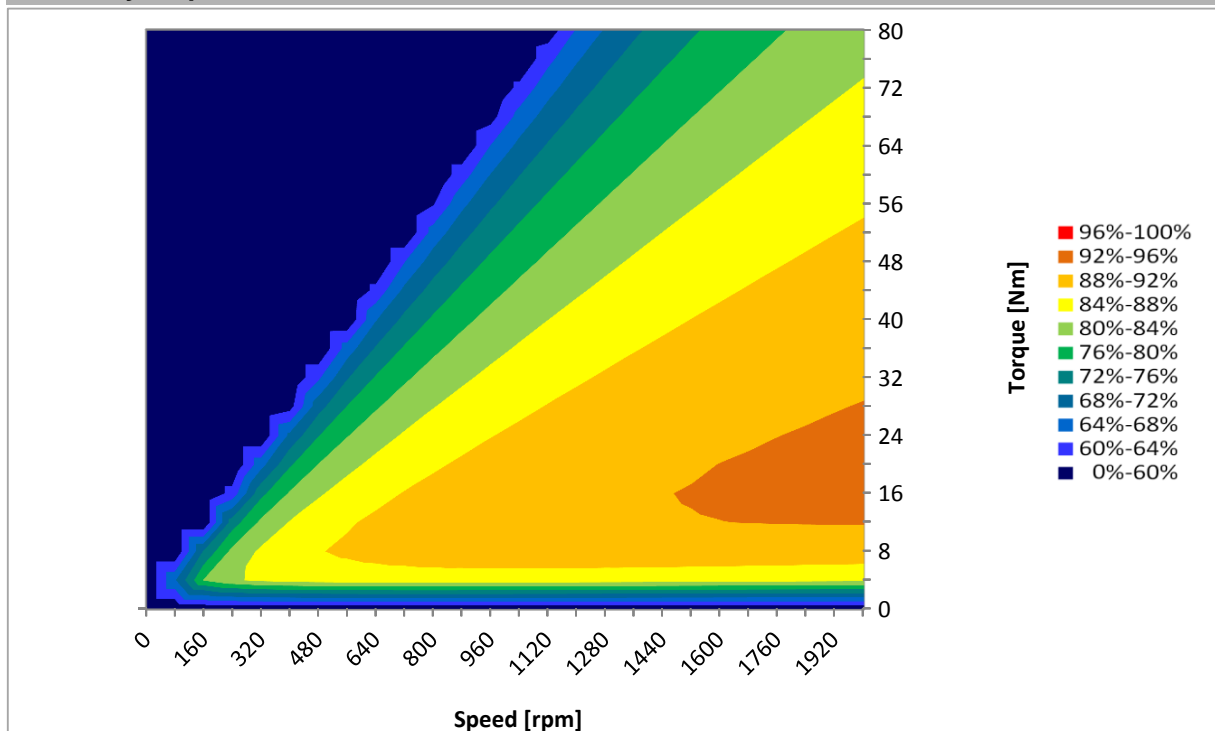
Torque-Speed Characteristic



Please note

Operation points with a higher torque demand than the rated continuous torque are not suited for continuous operation (S1).

Efficiency map



Please note

This map is based on theoretical data. The actual efficiency may vary due to the quality of the motor control in use as well as to production based tolerances.