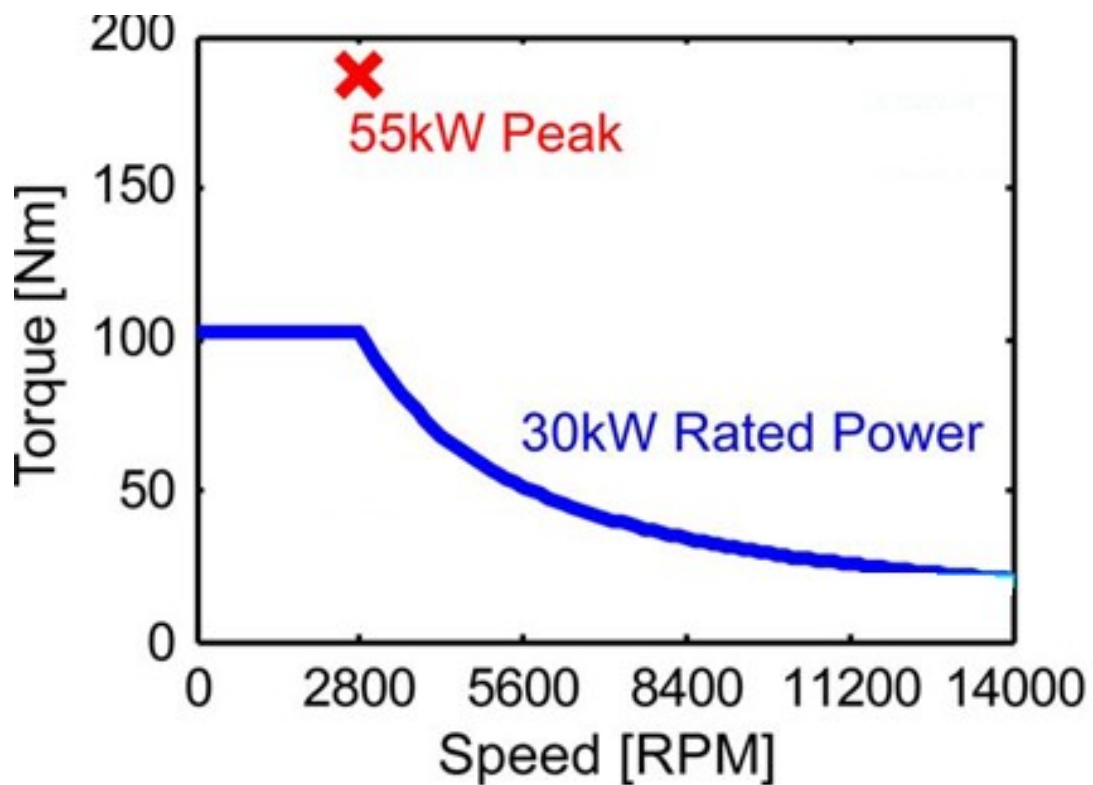


Brushless motor for electric traction type BSMW 285-30-14



The BSMW 285-30-14 is an interior rare earth permanent magnet synchronous motor with a continuous power of 30 kW over 20–100 % speed range and a peak power of 55 kW. This motor produce a continuous torque of 100 Nm between 0 and 2800 rpm, and a continuous power of 30 kW between 2800 rpm and 14000 rpm.



Parameter	Unit	Value
Nominal power	kW	30
Nominal speed	rpm	2800
Maximum speed	rpm	14000
Voltage	V	600
Normal torque	Nm	100
Peak torque	Nm	185
Back EMF	V_{pk}/k_{rpm}	35.7
Torque constant	Nm/A_{rms}	2.04
Nominal current	A_{rms}	250
Line to line resistance (@25°C)	mΩ	6.5
Line to line inductance	mH	0.4
Number of poles		10
Insulation class		F
Cooling method		water
Water flow	l/min	6
Weight	Kg	40

