CASE STUDY – ELECTRICAL STEEL VS. COBALT-IRON

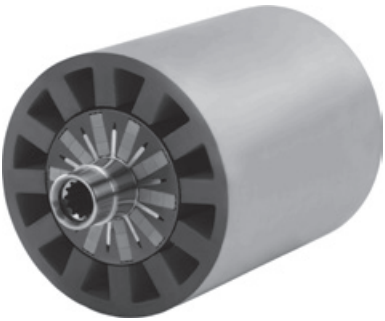
HIGH PERFORMANCE PERMANENT MAGNET MOTOR

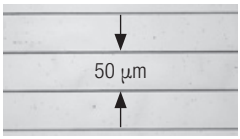
MADE BY AMZ

Formula Student Electric 2014: AMZ racing team with 4 wheel drive system.

MAIN FEATURES

- Powered by VACSTACK®-Technology
- Stator & rotor material VACOFLUX® 48
- Segmented magnets VACODYM® 776 TP
- Fully assembled rotor magnet system
- Strip thickness 0.05 mm
- Filling factor 96 %





Cobalt-Iron Alloys for High Performance Motors: AMZ Racing Team, Switzerland

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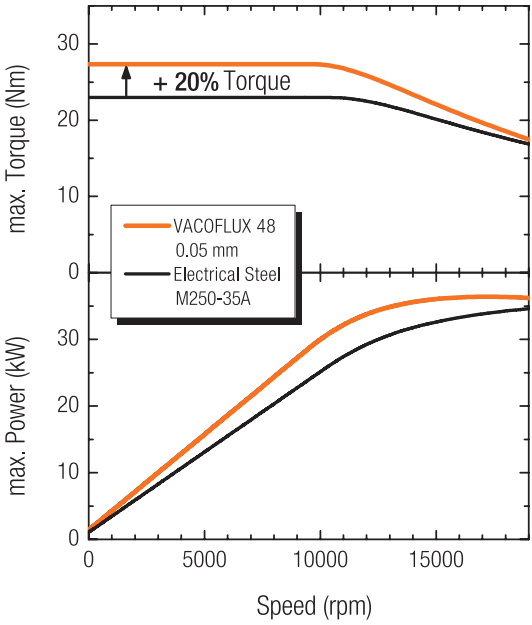
MOTOR DATA

- Max. Power 37 kW
- Max. Torque 27 Nm
- Nominal Speed 9,500 rpm
- Weight 3.38 kg
- Power Density 10.9 kW/kg
- Torque Density 7.8 Nm/kg



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