

## *SCM150-XXX Axial Flux, Brushless PM Motor*

The New Generation Motors (NGM) SCM150 motor is ideal for small, direct drive, experimental electric vehicles where efficiency is key. The SCM150 motor can be driven as a 3-phase AC synchronous or DC brushless electric motor with advanced capabilities and superior efficiency. Standard features include:

- *High Power Rare Earth Permanent Magnets*
- *Variable gap mechanism allows for torque constant to be changed on the fly.*
- *Fits NGM solar car wheel, NGM PN 300-000115.*
- *Ultra high efficiency*
- *Open motor design for improved thermal performance and reduced weight.*
- *Field proven -- Used by top 5 finishers in Sunrayce 99 and ASC 2001*



### **\* Specifications (*Preliminary*)**

### **SCM150**

Peak Power	kW	7.5
Continuous Power @ $V_{nom}$	kW	3.75
Speed @ Peak Power	RPM	1300
No-Load Speed	RPM	1700
Peak Torque @ $I_{max}$ ( $T_p$ )	Nm	135
DC Bus Voltage Nominal ( $V_{nom}$ )	V	96 & 48
Weight	kg	20

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