

NOVA Series

NOVA 30-50-B4 P50

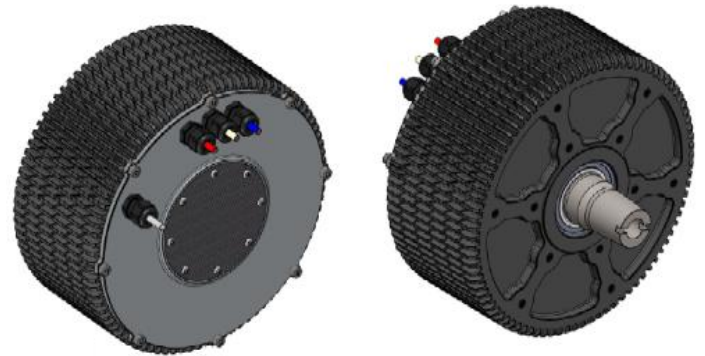
Inrunner BLDC motor with closed housing

Overview

The NOVA 30 is from our family of super rugged inrunner BLDC motors and has been specifically designed for the most demanding applications, including uncrewed systems and aerospace.

Features

- Super robust housing for mission critical applications in the harshest environments
- Best power-to-weight-to-robustness ratio in its class
- Position and temperature sensors included in standard
- Optimized shaft for Plettenberg propeller coupling



Specifications

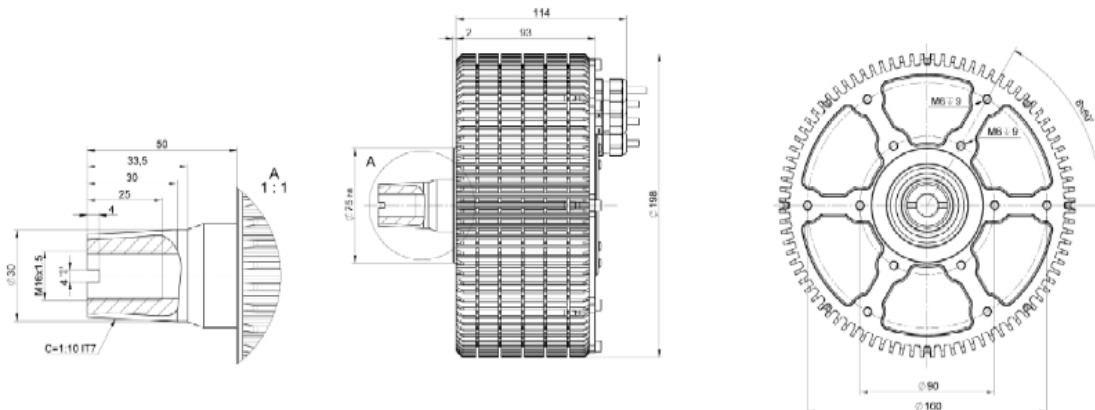
Peak output power	30	kW
Peak torque ¹	80	Nm
Max. speed	5,000	rpm
Voltage range	30-120	V
Speed constant (kV)	37	rpm/V
Diameter	198	mm
Length	93	mm
Weight	6,200	g
Phase cable length	100	mm
Sensor cable length	400	mm
Protection class	IP53	
Cooling	Air cooled	
Ambient Temperature range	-20 to +60	°C
Max. temperature of stator (as measured by sensor)	+100	°C
Position sensor types	Hall effect sensor with UVW-commutation signals	
Temperature sensor	NTC 47 kΩ	
Number of poles	50	
Number of windings	4	
Peak thrust	115 kg with 60x21" prop	

Complementary Products

- Plettenberg ESCs: MST 140-200, MST 140-250 WK
- Plettenberg gold connectors: GC6-00 / GC6-90

Notes:

¹ With sensor-guided ESC



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