NOVA Series

PLETTENBERG

NOVA 30-50-B10 P50 WK

Inrunner BLDC motor with closed housing

Overview

The NOVA 30 Water-Cooled ("WK") is from our family of super rugged inrunner BLDC motors and has been specifically designed for mission critical applications.

Features

- Super robust housing for applications in the harshest environments
- Designed for high shock and vibration loads
- Best power-to-weight-to-robustness ratio in its class
- Wear-free position and temperature sensors included in standard

Specifications

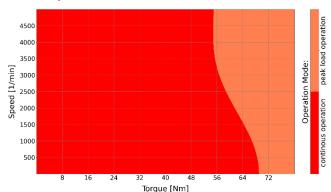
02-043.050.01-000-099	
30	kW
80	Nm
5,000	rpm
100-350	V
15	rpm/V
197	mm
93	mm
6,380	g
100	mm
400	mm
6 10	mm² AWG
IP53	
Front	
Both	
Water cooled	
-20 to +60	°C
+100	°C
Hall effect sensor with UVW-commutation signals	
NTC 47 kΩ	
50	
10	
Flow of 7 liters-per-minute at max. 40°C inlet temp.; coolant pressure shall not exceed 2 bar/ 29 PSI.	
	30 80 5,000 100-350 15 197 93 6,380 100 400 6 10 IP53 Front Both Water cooled -20 to +60 +100 Hall effect se UVW-commun NTC 47 kΩ 50 10 Flow of 7 liter at max. 40°C coolant press

Notes:

Complementary Products

- Plettenberg ESCs: MST 140-200, MST 140-250 WK, MST 400-200 WK, MST 400-133
- Third party ESC from Allocortech
- Plettenberg gold connectors: GC6-00 / GC6-90

Heatmap



Note: Assuming water temperature of 40°C and 7 l/min flow.

Options & Customization

- Custom winding/kV versions
- MIL-STD 810H or RTCA DO160 qualification
- MTBF/S report
- IP67 protection class
- Aerospace or MIL-DTL-38999 connectors
- Mechanical customization
- High/low temperature versions
- High RPM versions





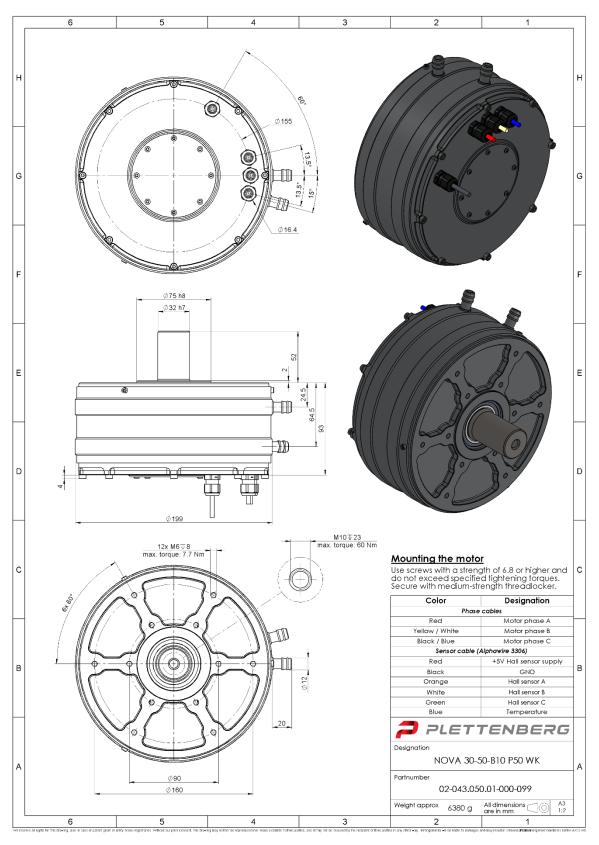
⁽¹⁾ Peak torque with sensor-guided ESC. If using sensorless ESC, peak torque may be 10-20% lower.

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