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 the most demanding applications.

Features

- Super robust housing for mission critical applications
- Best power-to-weight-to-robustness ratio in its class
- Position and temperature sensors included in standard



| Peak output power | 30 | kW |
|--|---|-------|
| Peak torque ¹ | 80 | Nm |
| Max. speed | 5,000 | rpm |
| Voltage range | 100-350 | V |
| Speed constant (kV) | 15 | rpm/V |
| Diameter (ex. water inlet) | 197 | mm |
| Length | 93 | mm |
| Weight | 6,300 | g |
| Phase cable length | 100 | mm |
| Sensor cable length | 400 | mm |
| Protection class | IP53 | |
| Mounting | Front | |
| Cooling | Water 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 | 10 | |
| Recommendations for water cooling | Flow of 7 liters-per-minute at max. 40°C inlet temp.; coolant pressure shall not exceed 2 bar/ 29 PSI. | |

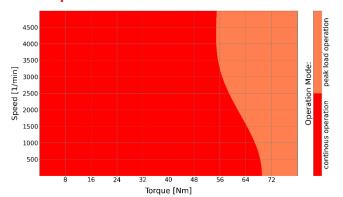




Complementary Products

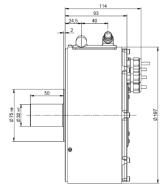
- Plettenberg ESCs: MST 140-200, MST 140-250 WK, MST 400-200 WK, MST 400-133
- Plettenberg gold connectors: GC6-00 / GC6-90

Heatmap



Notes:

¹ With sensor-guided ESC



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