Dyno Rig

High Performance Electric Motor Testing

TECHNICAL SPECIFICATION

Rig Dimensions: 1800mm x 1400mm x 1000mm
Driveline Height: 1113mm at rotational axle centreline

Max Motor Diameter: 315mm
Steel Shaft: 40mm diameter & 1500mm length

Power Measurement

- Pecision power analyser for motor and inverter analysis
- Three phase and DC measurements
- Breakdown of system, inverter and motor efficiency.
- BEMF analysis and measurement capability

Torque & Speed Measurement

- T12HP Torque Transducer from HMB.
- Non-contacting high speed transducer with accuracy class 0.02.

Hardware & Instrumentation

- Thermocouple and RTD inputs (16 as standard)
- Mayr ROBA-DS coupling, zero backlash and full balanced assembly
- Noise immunity and fast communications via ethernet connection
- Liquid cooled inverter mounting

Power Supply

- Programable bi-directional power supplies (0-300V, 550A)
- Automatic regeneration from load motor to minimise power consumption

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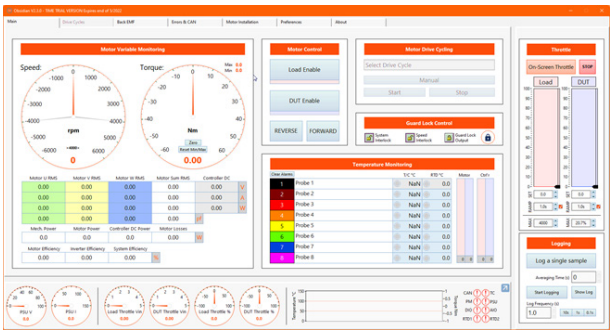
Software, Control & Interface

- High speed communications to inverters and hardware
- Automated efficiency contour plots, drive cycles and torque-speed plots
- Automated control of torque, speed, voltage and current
- Manual control option also available
- Live data and graphical information for instant feedback

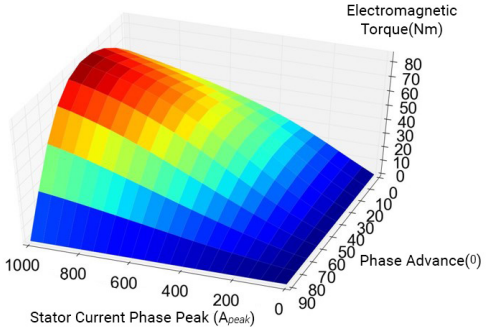
Obsidian Software



Data Acquisition

- Bespoke software for flexible data acquisition
- High speed acquisition for high resolution measurements
- Exportable data in various file formats for analysis
- Built in plotting tools for motor analysis and parameterisation

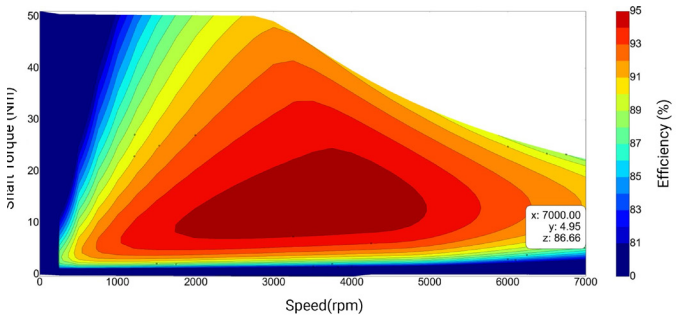
Motor Tuning Plot



Safety & Conformity

- PUWER assessed
- UKCA Certified (conforms to LVD 2014/35/EU and EMC Directive 2014/30/EU)
- Meets Machinery Directive 2006/42/EC requirements
- Emergency stop systems and safety interlocks
- Levelling rig casters with lock out

Efficiency Contour Plot



For more information please contact Electrified Automation
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