CASE STUDY

mjr Power & Automation

Design and Construction of High Voltage ROV Distribution Switchboard





MJR has successfully delivered a bespoke ROV Distribution Switchboard for a leading subsea vehicle manufacturer.

Showcasing our specialist switchgear and control gear capabilities, MJR has successfully delivered a bespoke ROV Distribution Switchboard for a leading subsea vehicle manufacturer. Designed to fit within a very tight space envelope inside an ISO 10' Offshore Container, it provides the main 3.3kV supply and protection for the vehicles subsea HPU and electronics package (Pod).

The system was designed to allow the ROV to work at depths up to 5000m with a multi tap HV step up transformer provided to allow a range of umbilical lengths up to 6000m.

- Very **compact form factor**
- **Sophisticated motor protection functions**
- **Fast delivery, to budget and right first time**
- **Standard solution and proven design**
- **Configurable for a wide range of ROV & Subsea applications**

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Marine & Offshore Electrical Power and Automation Engineering

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Sophisticated subsea motor protection was designed in, including line insulation and earth continuity monitoring with advanced motor protection functions such as winding thermal protection, overcurrent , limited starts per hour, voltage and frequency protections. A PLC/HMI based alarm and monitoring system was also provide for ergonomic, intuitive operate interface.

Designed and manufactured on an extremely short lead time: 8 weeks from placement of order to completed Factory Acceptance Test and shipment to a European client, the project demonstrates MJR's responsiveness, right first time approach and technical competence in delivery of demanding projects to ambitions timescales.

A full suite of detailed project documentation was supplied ensuring that the system met with stringent Client requirements and integrated seamlessly into the overall system without any problems.





> "Yet again we have demonstrated our agility in performing under pressure"…said Paul Cairns, Managing Director of MJR Power & Automation…"in today's tough marine and offshore marketplace, project decisions can come last minute, further compressing an already demanding schedule. Our experience and extensive back catalogue of designs and solutions allows us to work quickly and with the confidence that we can deliver on time."
>
> **Paul Cairns, Managing Director of MJR Power & Automation.**

For further details please contact:

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