

Softstarter Control Panel for Fire Deluge Sea Water Pumps



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Founding year:

2000

Employees:

18

Solution
Partner

Automation
Drives

SIEMENS

Solution Partner: Finesse Control Systems Ltd
Customer: Optima Solutions UK Ltd Baku AZ
Industry: Platform

Requirements of the customer:

- Bespoke, compact and cost effective solution for a large pump system
- Control of four 260kW Pumps with a remote control panel at the Pumps
- Build compliant with DNV-GL Standards DNV-OS-D201:2013
- Remote Control Panel to be Exe Certified, suitable for Zone 2 area
- Dual Supply to ensure 2 pumps are available at all times
- Rapid project turnaround from order to delivery
- Startup limited to 1 pump at a time with Alarming if no pump running

Short description of the solution:

Finesse were approached to provide a solution to control Sea Water Pumps for a Rig Cooling Systems. Due to space constraints, heat dissipation and cost, Variable Frequency Drives (VFD's) were not suitable so Softstarters were used to control the four 260kW pumps. Two 1600A busbars were used to handle the power requirements of each pair of pumps and a S7-1200 PLC was used to control the pumps.



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Implementation by the Solution Partner:

- A system was designed with 2 panels each containing 2 x 315kW Sirius Soft Starters and a S7-1200 PLC
- An Exe stainless steel Remote Panel was built, suitable for Zone 2, with controls for all 4 pumps
- Rittal Maxi-PLS and PLS-1600 busbar systems were used in Rittal TS8 enclosures for power distribution
- Siemens low voltage switchgear was used to protect and control the Power System for each Soft Starter

Benefits for the customer:

- Compact solution designed to keep costs down
- Built and Certified to DNV-GL Standards DNV-OS-D201
- Delivery made on a short timescale
- Full test of system capability at Finesse Workshop

