



Soft Starters for the Water Industry

Driving 4 Water Pumps

Motor ratings: 4160V, 330A

Codelco Norte, Open copper plant, Chile



Codelco Norte plant,
Calama Desert, Chile



This copper mine is situated 3000 meters above sea level in the Calama desert. Supplying water at this altitude requires powerful pumping capability and the advanced soft starting ability of Solcon HRVS-DN starters that have a reputation for high quality and long term reliability.

For this built-into-container application, Solcon supplied the HRVS-DN in an IP44 enclosure which was type tested 60 KV BIL standards. This 4160V unit was specially designed for the critical electrical creepage distances required at this altitude. The starter was then stiffened according to the requirements in the UBC 3&, readying it for installation in seismic zones 3 & 4.

The built in motor protection system monitors the motor for signs of malfunction uses Profibus to communicate any anomalies in operation. The Solcon soft starter eliminates the high inrush current and pressure surges on every start. It also has the ability to soft stop these pumps, eliminating damaging water hammer that threatens the pipe joints, valves, etc.

4 x 4.16KV, 400A

All in one solution, incorporating a load make fault break disconnect switch, earthing bar, power fuses, line and bypass contactors and Profibus communications option.



Soft-starting AC motors is what we do best