

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 in general and to this altitude in particular requires powerful pumping capability, derating multipliers, and the advanced soft-starting ability of Softstart with a reputation for high quality and long term reliability.

For this built-into-container application, We supplied the HRVS-DN in an IP44 enclosure, and type tested the unit to the BIL60KV standards. The special 4160V construction by Softstart, was derated to withstand the creepage distances applied at this altitude. The starter was then stiffened according to the requirements in the UBC 3&4, and is ready for installation in seismic zone 3&4. The incorporated Motor Protection monitors the motor for signs of malfunction and communicates any anomalies through Profibus communication. Not only does the system soft-starter eliminate the high inrush current and pressure surges on every start, but also has the ability to *soft-stop* these pumps, eliminating damaging water hammer that threatens the pipe joints, valves, and instruments.



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4 x 4.16KV, 400A

All in one solution, incorporating a load make fault break switch disconnecter, earthing bar, fuse base, fuses, line and bypass contactors, profibus communications.

