

Soft starter benefits for Irrigation Applications

BENEFIT		FEATURE	Pump
Protect equipment	Prevent damage due to reverse operation	Phase sequence	■
	Prevent damage from debris in water	Instantaneous overcurrent	■
	Prolong life of pumps, pipes, valves and headworks by preventing water hammer	Soft stop	■
	Early warning of abnormal load conditions (broken couplings, blocked pipes, etc.)	Undercurrent	■
	Extend life of pumps and pipes by protecting against extremes of pressure, depth or flow	Digital inputs	■
Maximize productivity	Safely use full motor capacity without nuisance tripping	Motor thermal model	■
	Complete critical processes	PowerThrough	■
	Automate restarting after temporary disturbances	Auto reset	■
Smoother operation	Minimize stress on electrical supply	Reduced start current	■
	Reduce mechanical stress during start	Gentle acceleration	■
	Minimize pressure surges	Gentle acceleration	■
Intelligent control of the whole system	Simplify control circuits by directly connecting pressure, depth and flow switches	Digital inputs	■
	Specify start and stop times	Auto-start/stop	■
Reduce capital cost	Reduce infrastructure costs by using smaller supply transformers and pole fuses	Reduced start current	■
	Start additional pumps using existing supply capacity	Reduced start current	■

■ Very significant benefit
 ■ Significant benefit
 □ Useful