

# Soft starter benefits for HVAC/Building Service Applications

BENEFIT	FEATURE	Compressor	Fan	Pump	Escalator	Elevator
Protect equipment	Prevent damage due to reverse operation	■		■	■	■
	Prevent damage due to ammonia fluid	■				
	Prevent damage from misalignment of compressor screws	■				
	Prolong life of pumps, pipes, valves and headworks by preventing water hammer			■		
	Early warning of abnormal load conditions (broken couplings, blocked pipes, etc.)			□		
Maximize productivity	Safely use full motor capacity without nuisance tripping		■	■	■	■
	Maximize operation during periods of high loading	■				
	Control compressor loading according to motor loading	■				
Smoother operation	Minimize stress on electrical supply	■	■	■	■	■
	Reduce mechanical stress during start	■	■	■		
	Smoother start for passengers				■	■
	Minimize pressure surges			■		
Intelligent control of the whole system	Override motor and system protections in emergency situations (e.g. fire pumps)			■		
	Simplify control circuits by directly connecting pressure switches			■		

■ Very significant benefit   ■ Significant benefit   □ Useful