

# Soft starter benefits for BUILDING SERVICES

BENEFIT	FEATURE	COMPRESSOR	ESCALATOR	FAN	PUMP	TRAVELATOR
<b>Protect equipment</b>	Prevent damage due to reverse operation	Phase sequence	■	■	■	■
	Prevent damage from ammonia fluid	Instantaneous overcurrent	■			
	Prevent damage from misalignment of compressor screws		■			
	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			□	
<b>Maximise productivity</b>	Safely use full motor capacity without nuisance tripping	Motor thermal model		■	■	■
	Maximise operation during periods of high loading		■			
	Control compressor loading according to motor loading	Analog output	■			
<b>Smoother operation</b>	Minimise stress on electrical supply	Reduced start current	■	■	■	■
	Reduce mechanical stress during start		■		■	■
	Smooth start for passengers	Gentle acceleration		■		■
	Minimise pressure surges				■	
<b>Intelligent control of the whole system</b>	Override motor and system protections in emergency situations eg fire pumps	Emergency run			■	
	Simplify control circuits by directly connecting pressure switches	Digital inputs			■	