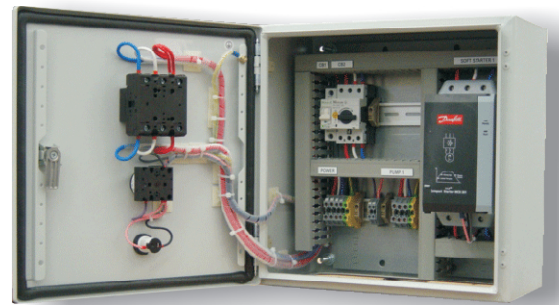
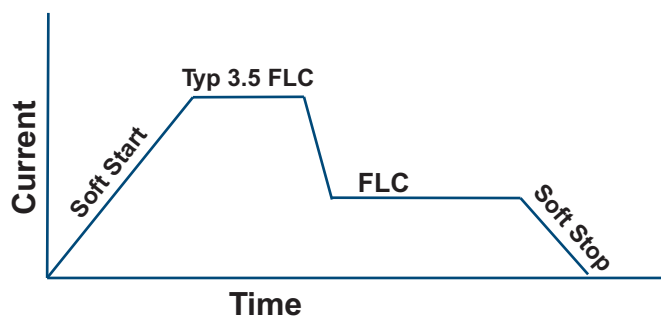


SOFT START PANELS

Soft Start Panel

The Techsys Soft Start panel is designed to start pumps and motors with reduced voltage assistance

The Soft Start Panel will allow the reduction in starting current when starting pumps.



Other Features Include

- Soft Start - Soft stop
- Built-In bypass contactor
- Motor circuit breaker
- Main isolator
- AS3000 compliant wiring
- Current ratings for normal and heavy starting
- Versions for 200- 575 V AC
- Voltage ramps or current limit ramp soft start
- Built-in motor protection
- Compact design with internal bypass system for minimum power loss
- Add on modules for remote operation and serial communication

Benefits

- Simple & flexible control over starting current and torque
- Smooth control of voltage & current – free from steps or transitions and stop conditions
- Capable of starting frequently
- Minimised hydraulic shock in pipelines during start and stop.
- Reduced starting current.
- Minimised mechanical stress on motor shaft.

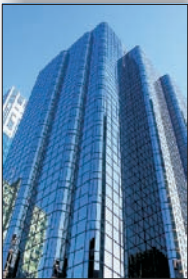
Specifications

ITEM	DESCRIPTION
Soft Start Model	
1.1-110kW	Danfoss MCD201 with built in bypass
132-800kW	Danfoss MCD3000 with external bypass contactor
Control Voltage	240VAC-other voltages available on request
Supply frequency range	45-66Hz
Switchboard IP rating	IP56 min
Bypass contactor:	
1.1-110kW	Built in
132-800kW	Klockner Moeller DIL series
Motor circuit Breaker	
1.1-15kW	Klockner Moeller PKZMO series
18.5kW +	Klockner Moeller NZMN series
Main isolator:	
0-30kW	Klockner Moeller P series
37kW+	Merlin Gerin INS series with door interlock
Manufacture Standard	AS3000
Operating temperature	-10°C / +60°C
Humidity	5-95% Relative Humidity – non condensing
Vibration	4Hz-13.2Hz: ± 1mm displacement
EMC Equipment Class	Class A
Fault rating:	
1.1-37kW	5kA
37-110kW	10kA
132-800kW	refer Techsys Corporation
Starts per hour:	
1.1-110kW	15 starts per hr – dependant on start time/current draw
132-800kW	Refer Techsys Corporation

Options

Serial comms	High/Low Pressure Protection
Remote start	Time clock
Ammeter - Voltmeters	Emergency stop button
Telemetry:	Hour run meter
Radio	Thermistor protection
Autodialler	Phase failure
Two way SMS	Under/Over Voltage protection
SMS fault reporting	24VAC/110VAC control voltage
Pilot Lights	Flow switch c/w timer
Lightning Protection	Loss of prime protection
Enclosure material:	
Stainless Steel	
Aluminium	

Applications



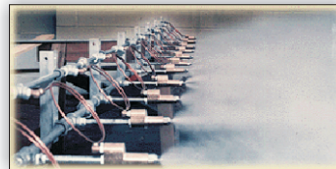
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Industry



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