

# Soft Start Panels

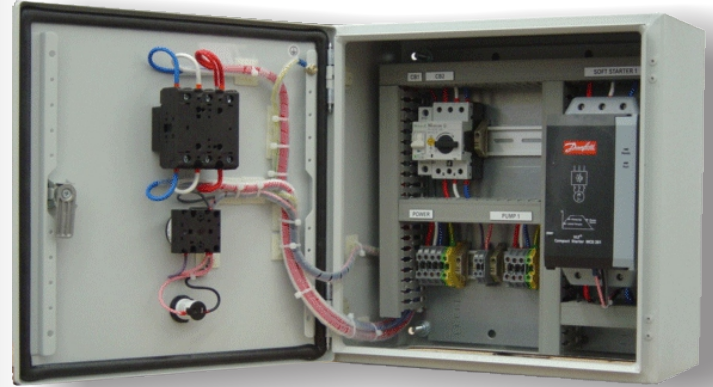
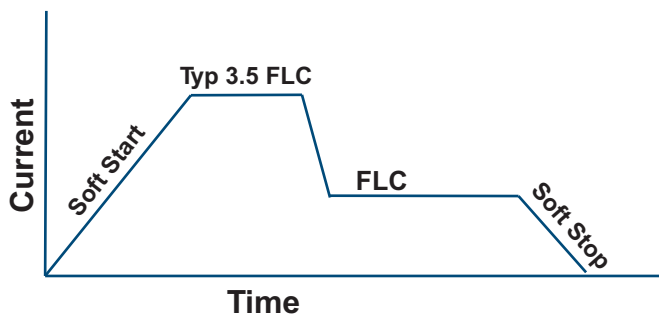


**Techsys**  
Engineering

## Soft Start Panel

The Techsys Soft Start panel is designed to start pumps and motors with reduced power supply demand.

The Soft Start Panel allows for adjustable the reduction in starting current when starting pumps to suit each application



Standard Soft Start Panel

## Other Features Include

- Soft Start - Soft Stop
- Built-In bypass contactor
- Motor circuit breaker
- Mains isolator
- AOM Switch
- Run light
- 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 frequent starts
- Minimises hydraulic shock in pipelines during start and stop.
- Reduced starting current.
- Minimises mechanical stress on motor shaft.



## Specifications

ITEM	DESCRIPTION
Soft Start Model	
1.1-110kW	Danfoss MCD201 with built in bypass
132-800kW	Danfoss MCD500 with external bypass contactor
Control Voltage	240VAC-other voltages available on request
Supply frequency range	45-66Hz
Switchboard IP rating	IP54 min
Bypass contactor:	
1.1-110kW	Built in
132-800kW	External to soft starter
Motor circuit Breaker	
1.1-15kW	Typically Eaton PKZM0 or similar
18.5kW +	Typically Eaton NZM or similar
Main isolator:	
0-30kW	Typically Eaton P Series or similar
37kW+	Typically Schneider INS series or similar
Manufacture Standard	AS3000
Operating temperature	-10°C / +50°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

## Options

Serial comms	High/Low Pressure Protection
Remote start	Line isolating contactor
Ammeter - Voltmeter	Emergency stop button
Telemetry:	Hour run meter
Radio	Thermistor protection
Auto-dialler	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 materials:	Time clock
Stainless Steel	
Aluminium	

## Applications



**Multi Story Buildings**



**Sewerage & Water Authorities**



**Water Supplies**



**Industry**



**Irrigation**

[www.techsys.com.au](http://www.techsys.com.au)

Product performance, specifications or design may change without notice



**Techsys**  
Engineering

Techsys Engineering is an Australian owned and operated company specialising in the design and manufacture of pump control systems and solutions.  
Email: [sales@techsys.net.au](mailto:sales@techsys.net.au)

Unit 11 6 Nuban ST,  
Currumbin Waters, QLD 4223 Australia.  
Ph: (07) 5534 1879