

SPD

Quick Start Up Guide

Refer to the status code label on the side of the controller access cover to diagnose system errors. See the following diagram.

STATUS CODES	
GREEN LIGHT CODES	
CONSTANT	STANDBY
BLINKING	PUMP RUNNING
ORANGE LIGHT CODES	
CONSTANT	UNDER VOLTAGE
RED LIGHT CODES	
CONSTANT	REPLACE CONTROLLER
2 BLINKS	NO WATER/LOSS OF PRIME
3 BLINKS	SENSOR FAULT
4 BLINKS	PUMP OR MOTOR BOUND
5 BLINKS	SHORT CIRCUIT/GROUND FAULT
6 BLINKS	INPUT PHASE LOSS
7 BLINKS	TEMPERATURE
8 BLINKS	OVER VOLTAGE
9 BLINKS	MOTOR OVERLOAD

Red Flashes	Fault Code	Restart Action
Constant	Replace Controller	Controller will not restart. Power must be reset to clear the fault.
2 Blinks	No Water/Loss of Prime No Water Restart Time	Controller will restart automatically according to the switches (switches 3 and 4 of bank 2).
3 Blinks	Sensor Fault	Controller will restart automatically when the sensor signal is within the valid operating range.
4 Blinks	Pump or Motor Bound	Controller will restart automatically 5 times. After 5 faults the power must be reset to clear the fault.
5 Blinks	Short Circuit/ Ground Fault	Controller will not restart. Power must be reset to clear the fault.
6 Blinks	Input Phase Loss	Controller will restart automatically 5 times. After 5 faults the power must be reset to clear the fault.
7 Blinks	Temperature	Controller will restart automatically when temperature is within the operating range of the controller.
8 Blinks	Over Voltage	Controller will restart automatically when the input voltage is within the operating range of the controller.
9 Blinks	Motor Overload	Controller will restart automatically.

SPD Motor Overload Settings

Supply Voltage	Frame Size	Model Number	Motor Overload Setting							
			100%	95%	90%	85%	80%	70%	50%*	40%*
208/230	1	SPD20050F	17.8	16.9	16.0	15.1	14.2	12.5	8.9	7.1
	2	SPD20075F	26.4	25.1	23.8	22.4	21.1	18.5	13.2	10.6
		SPD20100F	37.0	35.2	33.3	31.5	29.6	25.9	18.5	14.8
	3	SPD20150F	47.4	45.0	42.7	40.3	37.9	33.2	23.7	19.0
		SPD20200F	60.6	57.6	54.5	51.5	48.5	42.4	30.3	24.2
	4	SPD20250F	76.0	72.2	68.4	64.6	60.8	53.2	38.0	30.4
SPD20300F		94.0	89.3	84.6	79.9	75.2	65.8	47.0	37.6	
460	1	SPD40050F	8.9	8.5	8.0	7.6	7.1	6.2	4.5	3.6
		SPD40075F	13.2	12.5	11.9	11.2	10.6	9.2	6.6	5.3
	2	SPD40100F	18.5	17.6	16.7	15.7	14.8	13.0	9.3	7.4
		SPD40150F	23.7	22.5	21.3	20.1	19.0	16.6	11.9	9.5
		SPD40200F	30.3	28.8	27.3	25.8	24.2	21.2	15.2	12.1
	3	SPD40250F	37.5	35.6	33.8	31.9	30.0	26.3	18.8	15.0
SPD40300F		47.0	44.7	42.3	40.0	37.6	32.9	23.5	18.8	

* Only use 50% and 40% settings for 1Ø input