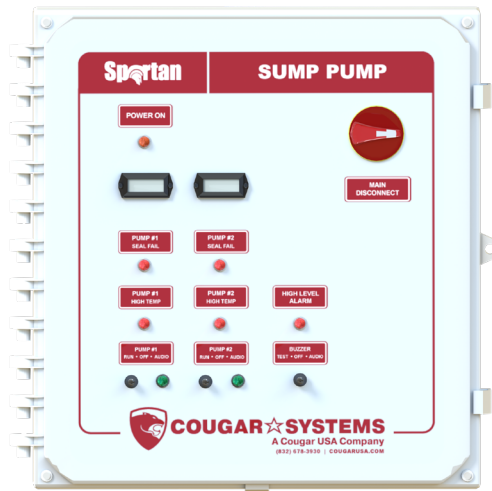




SUBMITTAL

Spartan + Sump



Spartan

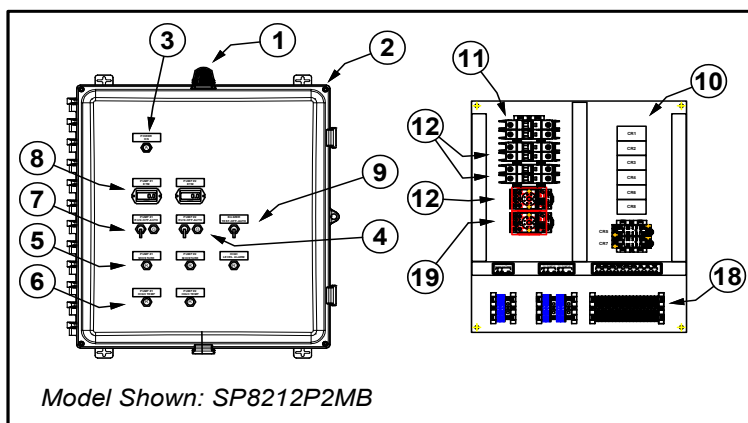


FEATURES

- Type 4X construction withstands outdoor installations and prevents corrosion
- Lockable hinged front enclosure door
- Dual Power Feed construction
- Thru-the-Door Main disconnect
- Nema Motor Start Contactor/Overload
- White Power on Light
- Pump Hand-On-Auto selector switch with green pump run lights
- Alarm Buzzer Push-to-Silence pushbutton
- High Temp Motor Protection Circuit with Orange alarm Indication
- Pump Seal Leak Monitoring with Blue alarm indication
- Electronic pump alternation
- Multi float count configurable
- Control voltage stepdown transformer
- Manual Overload Pushbutton (Door Mounted)
- Power Transfer relay
- 360° visible red alarm beacon
- Piezo alarm buzzer
- Dry contact remote alarm interface
- Color coded wiring
- Numbered screw type field termination block
- Field wiring diagram and installation instructions included

PANEL COMPONENTS

- | | |
|--------------------------|--|
| 1. Alarm Beacon | 11. Main Disconnect |
| 2. TYPE 4X Enclosure | 12. Pump Breaker |
| 3. Power On Indicator | 13. Alarm Horn |
| 4. Pump Run Indicator | 14. Pump Contactor |
| 5. Seal Leak Indicator | 15. Motor Starter Combo Circuit Breaker/Overload (3Phase Only) |
| 6. High Temp Indicator | 16. Alternator (Duplex only) |
| 7. Pump Selector switch | 17. Control Transformer (3Phase Only) |
| 8. Pump Run Time Meter | 18. Field Terminal blocks |
| 9. Alarm Selector switch | 19. Seal Fail Relay (only with option) |
| 10. Control Relay | |



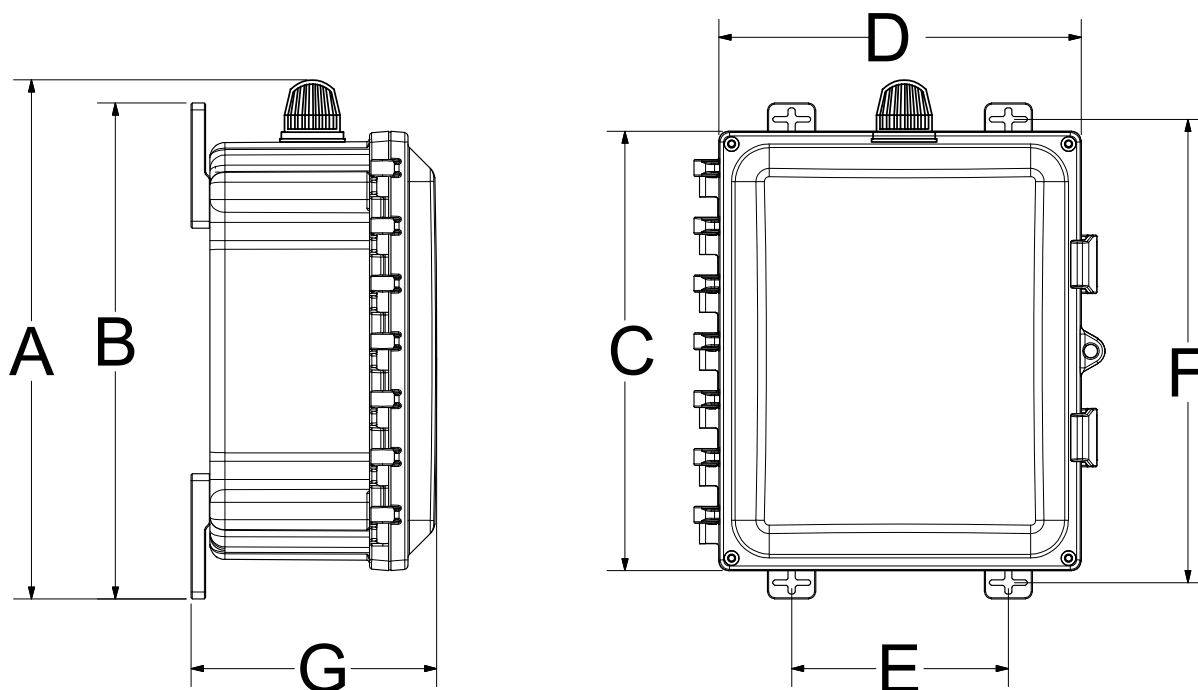
ENCLOSURE DIMENSIONS

SIMPLEX/DUPLEX STANDARD - 18x16x10

A	B	C	D	E	F	G
19.47	18.88	17.41	15.41	11.63	18.03	9.86

SIMPLEX/DUPLEX INTRINSICALLY SAFE - 24x20x10

A	B	C	D	E	F	G
21.45	20.88	19.41	17.41	13.63	20.03	11.86





PANEL SELECTION

	<u>VOLTAGE</u>
(11)	120vac - 1 Phase
(12)	208/240vac - 1 Phase
(32)	208/240vac - 3 Phase
(34)	460/480vac - 3 Phase
(36)	600vac - 3Phase
(52)	Dual 208/240vac - 3Ph
(54)	Dual 480vac - 3Ph
(56)	Dual 600vac - 3Ph

	<u>TYPES</u>
(P1)	Simplex
(P2)	Duplex
(P3)	Triplex
	Multiple Pumps

	<u>1PH AMPERAGE</u>
(B)	0-15Amp

	<u>3PH AMPERAGE</u>
(BW-1.6)	1-1.6 Amp
(BW-2.5)	1.6-2.5 Amp
(BW-4)	2.5-4 Amp
(BW-6.3)	4-6.3 Amp
(BW-10)	6.3-10 Amp
(BW-16)	10-16 Amp
(BW-20)	16-20 Amp
(BW-25)	20-25 Amp
(BS-5)	1.25-5 Amp
(BS-12)	3-12 Amp
(BS-32)	8-32 Amp

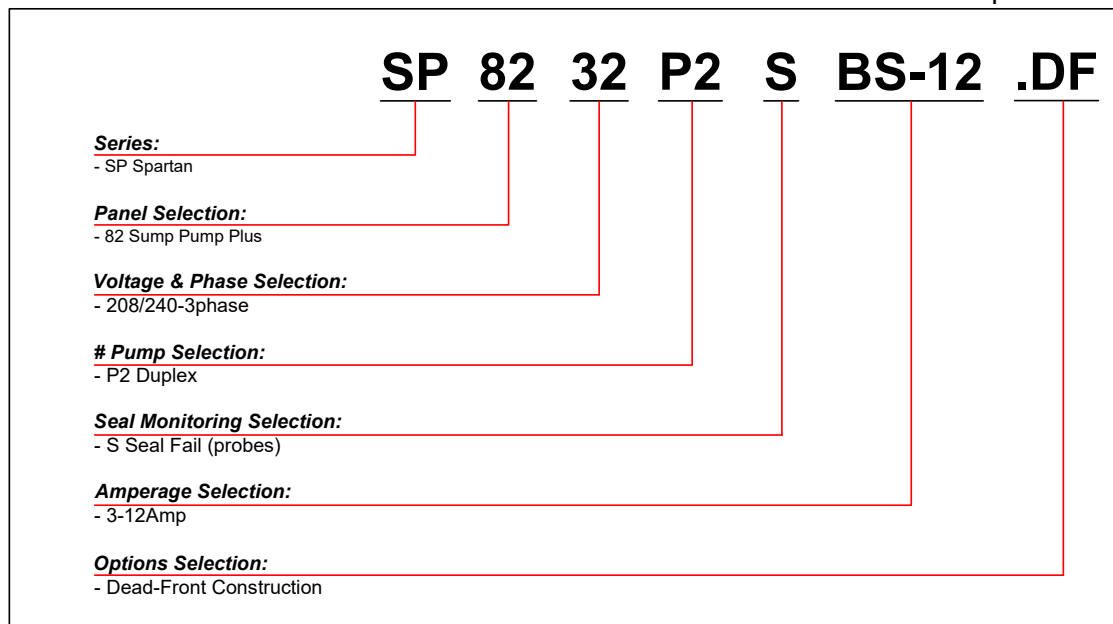
	<u>SEAL LEAK</u>
(M)	Moisture Switch
(S)	Seal Fail (resistance)
(XX)	Custom

	<u>OPTIONS</u>
(DF)	Dead-Front
(IS)	Intrinsically Safe
(BI)	BACnet
(6K)	65K SCCR
(10K)	100K SCCR
(VFD)	Drives installed
(SS)	Stainless Steel Enclosure
	NEMA Starters (Heavy Duty)

SP8232P2SBS-12.DF

Panel Selection Breakdown

Example Part #:





MOTOR CONTROLS

1. Standard Motor Controls Incoming Power Service of 115/120vac - 1 phase. Simplex and Duplex setup (Figure 1). Adder Options Available.

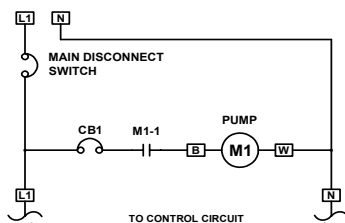
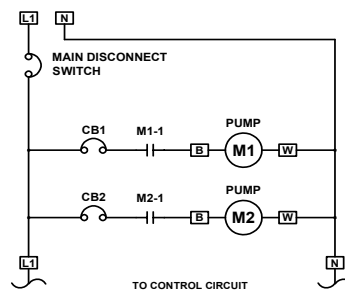


Figure 1



1. Standard Motor Controls Incoming Power Service of 200/240vac - 1 phase. Simplex and Duplex setup (Figure 1). Adder Options Available.

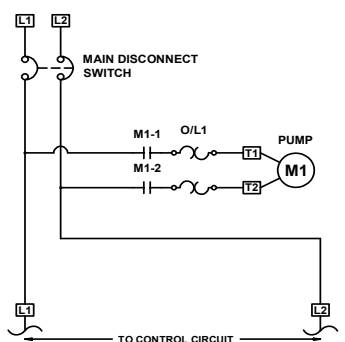
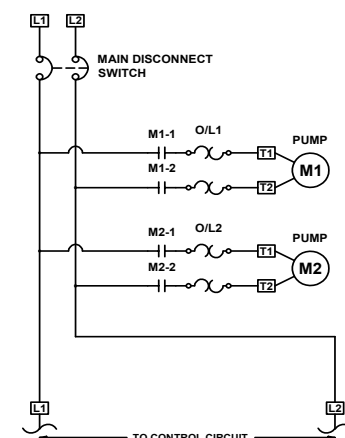


Figure 2



1. Standard Motor Controls Incoming Power Service of 200/240/480vac - 3 phase. Simplex and Duplex setup (Figure 1). Adder Options Available.

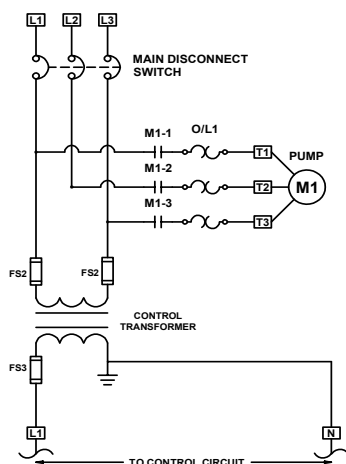
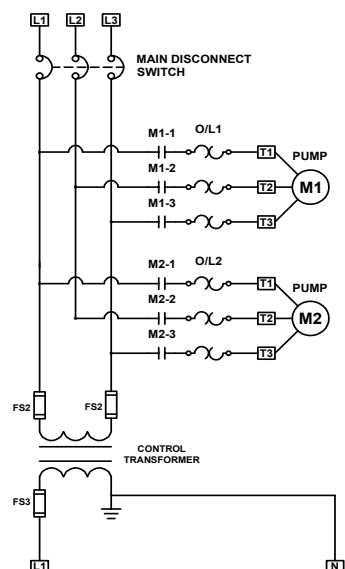
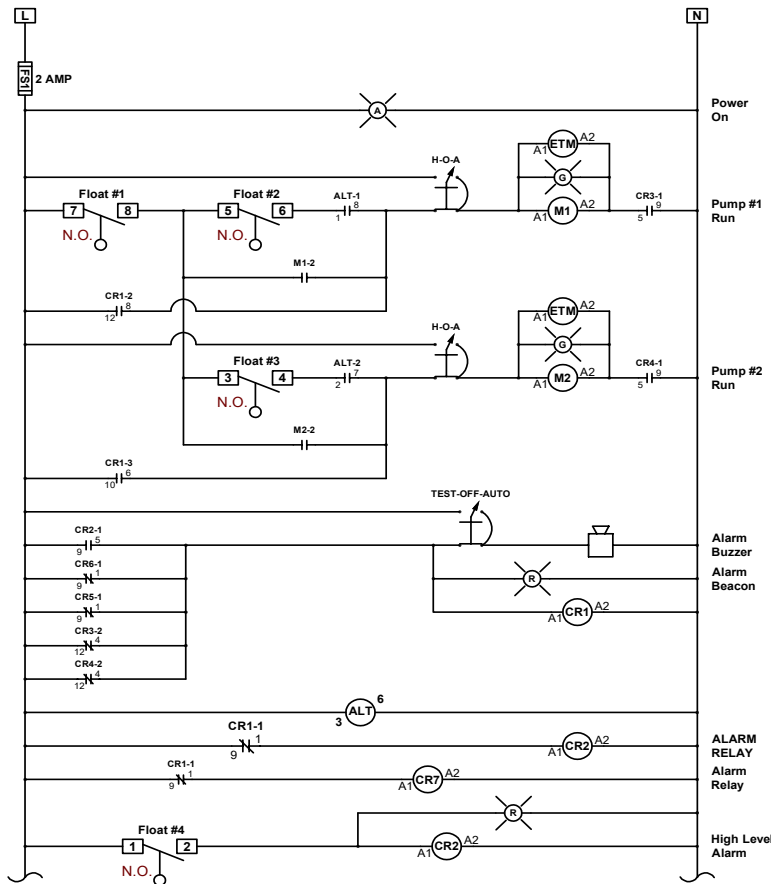


Figure 3





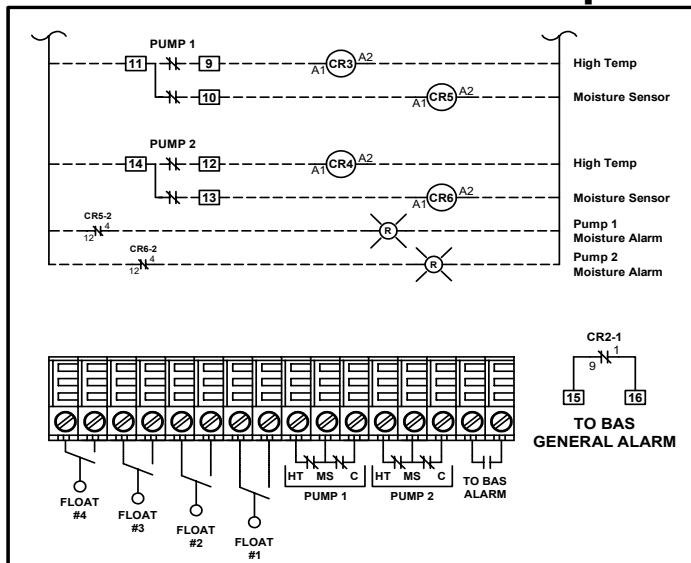
CONTROLS DIAGRAM



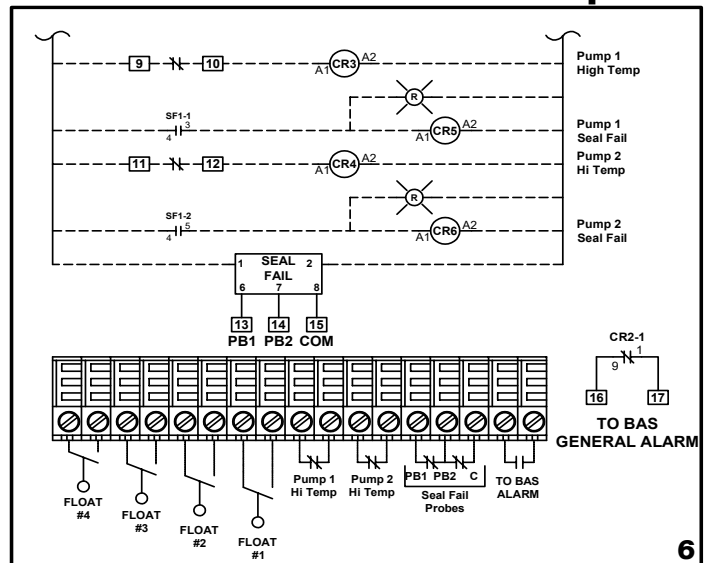
OPTIONS

Standard Spartan Plus Series control panel wiring diagram. The 2 options available for the Spartan Plus series are Moisture Sensor and Seal Fail. The wiring diagrams options are below.

Moisture Switch Option



Seal Fail Option





FLOAT DETAIL

OPTIONS

Detail Float configuration. Standard Duplex (2 pumps) operation will be a 4-Float operation. Standard Simplex (1 pump) operation will be a 3-Float operation.

- Simplex
 - 3-Floats
 - 2-Floats
- Duplex
 - 4-Floats
 - 3-Floats
 - 2-Floats

- Analog Transducer (Elite Only)
- Conductivity S.S. Electrodes
- Gold Contacts "GC" Mechanical Floats (Intrinsically Safe Only)

