

Inverters (Variable Frequency Drives) For Submersible Pumps

Subcon 1.5 / 3.0 Series - Constant Pressure Controller

Applications

- ◆ Submersible Pumps
- ◆ Booster Pump Systems
- ◆ General Purpose Pumps
- ◆ Deep Wells

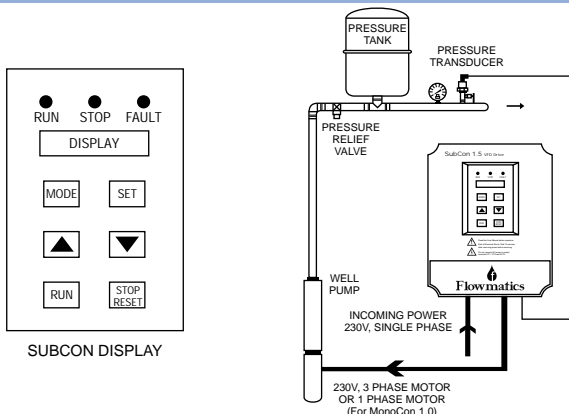
Specifications

Alpha-Numerical Display It Displays >	Current & target pressure in bar / PSI Pump Speed in Hz Incoming Voltage & Pump Amps Pump Run Time & Error Faults
Communication	RS - 485
Digital Input	Relay Output
2 Relay Outputs available	Pump run status & Alarm status
Shallow Well Operations	Low level automatic drive stop & auto restart after a programmable set time without generating a fault.
Low Voltage Operations	During low voltage conditions. The Amp. load of the Pump will increase & could trip VFD load. It recognizes this condition & automatically reduces the motor speed & avoid tripping.

Performance Data

Model Code	Input				Output						
	Ph.	Voltage	HP	Hz	Amp	Ph.	Voltage	Hz	Amp	KVA	HP
IS15075D	1 ϕ	200 ~ 240 VAC	0.75	50 / 60	11	3 ϕ	240 VAC	30~80	5.9	2.25	1.5
IS15100D			1.00					30~70			
IS15150D			1.50					30~60			
IS30100D	1 ϕ	200 ~ 240 VAC	1.00	50 / 60	23	3 ϕ	240 VAC	30~60	10.9	4.15	3.0
IS30200D			2.00					30~70			
IS30300D			3.00					30~60			
			8.2					10.9			

Simplex Operation



Model Ordering Code Instructions

IS	-	15	-	075	-	D
T		T		T		T
Series		Standard HP		Power		Phase
IS - Inverter Subcon		15 - 1.5 HP 30 - 3.0 HP		075 - 0.75 HP 100 - 1.00 HP 150 - 1.50 HP 200 - 2.00 HP 300 - 3.00 HP		D - Single Phase Blank - Three Phase



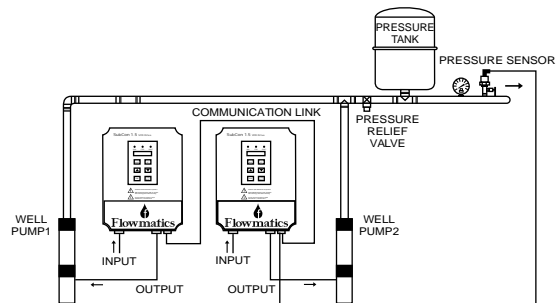
Subcon Series

Features

- ◆ Uses a (4-20mA) 10 kg/cm²g pressure transducer for continuous pressure monitoring and control
- ◆ Set pressure easily adjusted via keypad Hence no tools are required
- ◆ Advance protection features like:
 - ❖ Adjustable Electronic Motor overload protection
 - ❖ Ground fault protection (equipment protection)
 - ❖ Low level (under current condition)
 - ❖ Under voltage
 - ❖ Over temperature (VFD)
 - ❖ Low discharge pressure alarms
 - ❖ Pressure transducer fault (open / short)
 - ❖ Communication error (For Duplex Operation)
- ◆ Ease in operation & Highly Reliable
- ◆ NEMA Type 1 (Indoor) Enclosure

Duplex Operation

- ◆ Lead and lag operation for high demand application
- ◆ Automatic alternation for even wear on pumps
- ◆ Only 1 pressure transducer required for both VFDs
- ◆ Actual & set pressures are shared through the communication link



WATER MANAGEMENT SYSTEMS

Shah Pneumatics

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