







VARIABLE FREQUENCY DRIVE

The SD Series VFD is our simple, single-phase to three-phase converting solution for residential and light commercial constant pressure installations requiring 2-5 HP. The SD offers simple setup, rugged hardware, NEMA Type 3R enclosure, and a low noise oil-filled 0 - 150 psi pressure transducer. Enjoy commercial VFD quality in a drive that is easy to configure for home wells, irrigation systems, motor control, and soft start applications.

If you're looking for an affordable residential or light commercial, high quality product with three-phase capabilities and constant pressure, regardless of the demand, this is your product.



GENERAL PURPOSE VARIABLE FREQUENCY DRIVES





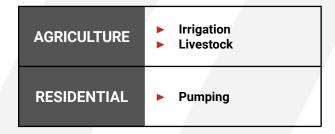




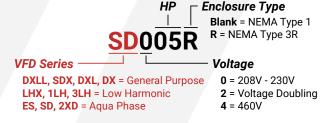
PERFECT FOR ALL APPLICATIONS

- Constant pressure from source to liquid distribution point
- Phase Converting capabilities for easy three-phase power
- ► Easy Set Up Wizards preprogrammed in your system for quick and simple startup
- Great for residential and light commercial pumping applications

Common Applications



Nomenclature







Physical / Environmental	
Operating Temperature Range	-40 °C – 50 °C (-40 °F – 104 °F) *Heater in enclosure may be required below —40 °C, de-rating required above 40 °C
Storage Temperature Range	-40 °C - 57 °C (-40 °F - 135 °F)
Enclosure	Nema type 3R : Outdoor
Altitude	Altitude Derate by 1% every 400 ft above 3300 ft elevation
Input Power	
Input Phase	Single-Phase
Input Voltage	230 V
Input Voltage Range	190 V – 275 V
Input Frequency	60 Hz
Output Power	
Output Phase	Three-Phase
Nominal Output Voltage	230 V
Output Voltage Range	190 V - 275 V
Output Frequency	5 Hz – 15 Hz
Horsepower	2 HP - 5 HP
Output Power	2 – 11 kW
Switching Frequency	2 kHz – 8 kHz
Output	V/f Control
Electrical	
Short Circuit Withstand Rating	25 kA RMS Symmetrical Amps
Efficiency	> 98%
Startup Ramp Time	1 – 120 s
Shutdown Ramp Time	1 – 120 s or Coast to Stop
Overload Capacity	110% for 60 s



Analog Inputs	
Quantity	(2) Programmable
Current Reference	4 – 20 mA, (2) Inputs
Voltage Reference	0 – 5 VDC, (1) Input
Terminal Block Size	26 - 12 AWG
Digital Inputs	
Quantity	(2) Programmable, Expandable
Ratings	< 5 V, galvanically isolated
Terminal Block Size	26 - 12 AWG
Relay Outputs	
Quantity	(2) Programmable
Rating	Relay 1: 5 VDC, 7 A at 250 VAC Relay 2 : 5 VDC, 7 A at 250 VAC
Terminal Block Size	26 - 12 AWG
Features	
Certification	ETL listed to UL 61800-5-1 and CSA C22.2 No. 274-17
User Interface	Push button membrane keypad with backlit graphic display
Available Feature Sets	AquaPhase™ (pump control)





DIGITAL PHASE CONVERTERS

VARIABLE FREQUENCY DRIVES

MOTOR PROTECTION

STARTER PANELS

OUR MISSION

Relentlessly seek to provide Uncommon Value, solutions, innovation, and support for the industries that we serve.



