

VOLTAGE  
**DOUBLING™**

Patented technology available only from Phase Technologies®

- 5 HP to 7.5 HP
- 240 V Single-Phase to 480 V Three-Phase
- Phase Converting & Voltage Doubling
- NEMA 3R Rated Outdoor Enclosures

Nomenclature

Model Series	Input / Output Voltage	Rated HP	Enclosure Rating	—	Output Filter	Surge Protection
<b>2XD</b> SERIES	<b>2</b> 240V   240V Voltage Doubling <i>Surge Protection INCLUDED</i>	<b>05</b> - 5 HP <b>07</b> - 7.5 HP	<b>R</b> 3R Rated Outdoor Type Rain / Bug Proof	—	<b>O</b> Sinewave Filter	Choose Option <b>S</b> - Strikesorb® Surge Protection - Upgrade <b>S1</b> - Protec® Surge Protection - Included
	<b>2</b> 240V   240V Voltage Doubling	<b>10</b> - 10 HP <b>15</b> - 15 HP	<b>Upgraded to 1LH SERIES: See 1LHE210R &amp; 1LHE215R</b>			

Feature Set



**Power Behind The Pump**

AQUAPHASE™ feature set provides complete control capability for all pumping applications

**Technical Specifications**

Physical / Environmental	
Operating Temperature Range	-40 °C – 50 °C (-40 °F – 122 °F)
Storage Temperature Range	-40 °C – 57 °C (-40 °F – 135 °F)
Enclosure	NEMA Type 3R: Outdoor   Rainproof
Altitude	Derate by 5 °C every 2000 ft over 5500 ft of elevation
Input Power	
Input Phase	1 phase
Input Voltage	240 V
Input Voltage Range	190 V – 275 V
Input Frequency	60 Hz
Output Power	
Output Phase	3 phase
Nominal Output Voltage	480 V
Output Voltage Range	440 V – 520 V
Output Frequency	5 Hz – 300 Hz
Horsepower	5 HP – 15 HP
Output Power	7-12 kW
Switching Frequency	2 kHz – 8 kHz
Output	V/f control
Electrical	
Short Circuit Withstand Rating	25 kA RMS symmetrical amps
Efficiency	95%
Startup Ramp Time	1 – 120 s
Shutdown Ramp Time	1 – 120 s or Coast to Stop
Overload Capacity	120% for 60 s
Analog Inputs	
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
Ratings	< 5 V, galvanically isolated
Terminal Block Size	26 - 12 AWG
Relay Outputs	
Quantity	(2) Programmable (None on SD002 & SD003)
Rating	Relay 1: 28 VDC, 10 A or 250 VAC, 10 A Relay 2: 30 VDC, 2 A or 125 VAC, 0.5 A
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)

**Model Information**

Model	HP	Rated Input Current Amps	Rated Output Current Amps	Dimensions (W x H x D)	Weight - lb
2XD205	5	31A	10A	31 x 21 x 12 in.	64
2XD207	7.5	52A	13A		64

**NOTE:** 2XD210 & 2XD215 have been upgraded to the 1LHE Series product line

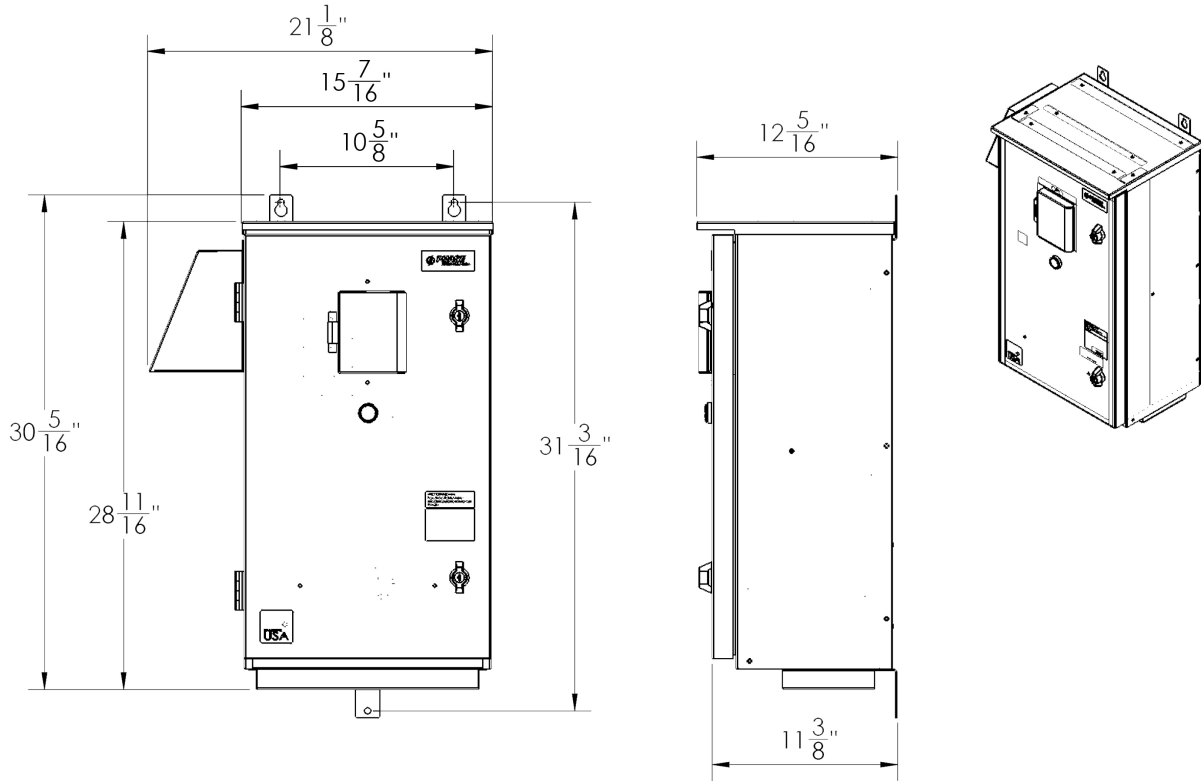
**Optional Integrations & Accessories**

Part Number	Description
<b>Transducer</b>	
S00150	0-150 psi Transducer with 15ft lead - <i>included standard with all SD Series models</i>
S00150-25	0-150 psi Transducer with 25ft lead
S00150-50	0-150 psi Transducer with 50ft lead
S00150-100	0-150 psi Transducer with 100ft lead
<b>Other Parts</b>	
CVR0002	Keypad Locking Security Cover Enterprise Frames
Kit E H	HOA Switch and Speed Potentiometer

**Recommended Fuse & Breaker Ratings**

Model	Horsepower	Recommended Breaker Size
2XD205	5 HP	40 A
2XD207	7.5 HP	65 A

Line Drawing



Block Diagram

