

## AutoDRIVE

### VARIABLE FREQUENCY DRIVE

115V / 230V | Single Phase Output  
 1/3 HP to 2 HP | 2 Wire & 3 Wire Motors  
 Pressure Switch | Pressure Transducer

230V | Three Phase Output  
 2 HP, 3 HP, & 5 HP



American Made & Built To Last

4" Motors & Controls

#### Constant Pressure

- Reduced tank size
- Quick & simple installation

#### Easy Setup

- Setup constant pressure in 5 steps or less

#### Large Graphic Display

- Bright backlit screen
- Visible in direct sunlight

#### Rugged & Compact

- NEMA 3R steel enclosure
- Rated to 122°F, (104°F for SD3-5HP2)

#### Feature Set | Power Behind The Pump

- Feature set provides complete control capability for all pumping applications

#### Breaker Recommendations

Fuse/Breaker Recommendations Single Phase			Fuse/Breaker Recommendations Three Phase		
Motor HP	Input Current	Fuse/Breaker	Motor HP	Input Current	Fuse/Breaker
<b>115V</b>			<b>230V</b>		
1/3	8 A	10 A	2	20 A	25 A
1/2	14 A	20 A	3	30 A	40 A
1	28 A	35 A	5	42 A	55 A
<b>230V</b>					
1/2	6 A	10 A			
3/4	9 A	15 A			
1	14 A	20 A			
1 1/2	18 A	25 A			
2	28 A	35 A			

#### Accommodated Wire Size

Connecting Load - Accommodated Wire Sizes	
Power Terminal	14 – 6 AWG
Minimum Torque	10.5 in-lb

# AutoDRIVE

## Enclosure Overview



### Technical Specifications - Single Phase

Physical / Environmental	
Operating Temperature Range	1/3 HP to 2 HP -20°C to 50°C (-4 F to 122°F)
Storage Temperature Range	-30°C to 60°C (-22°F to 140°F)
Enclosure	NEMA Type 3R: Outdoor   Rainproof
Altitude	Derate by 5 °C every 2000 ft over 5500 ft of elevation
Dimensions	12.25 in x 9.25 in x 4.68 in
Weight	13 lbs
Specifications	
Model Number	SD1-2HP2PS   SD1-2HP2
Horsepower	1/3 HP to 2 HP
Motor Style	2-Wire or 3-Wire
Rated Current	
Rated Input Current	Max: 28 A
Rated Output Current	Max: 16 A
Input Power	
Input Phase	Single Phase
Input Voltage	115 / 230 VAC
Input Voltage Range	90V to 160V 180V to 260V
Input Frequency	60 Hz

Output Power	
Output Phase	Single Phase
Output Voltage	Equal to input
Output Frequency	5 Hz to 120 Hz
Horsepower	1/3 HP to 2 HP
Switching Frequency	2 kHz to 8 kHz
Output	V/f control
Electrical	
Short Circuit Withstand Rating	5 kA RMS Symmetrical Amps
Efficiency	95%
Startup Ramp Time	0 to 120 s
Shutdown Ramp Time	0 to 120 s or Coast To Stop
Overload Capacity	150% for 2 s
	<small>Rated output current for 2 HP model based on typical full load current for submersible motors.</small>
Digital Inputs	
Quantity	Two Programmable
Ratings	<15 V 7 mA   Galvanically Isolated
Analog Inputs	
Quantity	Two Programmable
Current Reference	4-20 mA One Input
Voltage Reference	0 to 5 VDC One Input
Terminal Block Size	24 to 16 AWG

## AutoDRIVE

### Enclosure Overview



### Technical Specifications - Three Phase

Physical / Environmental	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F) -20°C to 40°C (-4°F to 104°F)
Storage Temperature Range	-30°C to 60°C (-22°F to 140°F)
Enclosure	NEMA Type 3R: Outdoor   Rainproof
Altitude	Derate by 5 °C every 2000 ft over 5500 ft of elevation
Dimensions	12.25 in x 9.25 in x 4.68 in
Weight	13 lbs

Specifications	
Model Number	SD3-2HP2   SD3-3HP2   SD3-5HP2
Horsepower	2 HP, 3 HP, 5 HP
Motor Style	3-Wire

Rated Current	
Rated Input Current	Max: 20 A, 30 A, 42 A
Rated Output Current	Max: 11 A, 13 A, 22 A

Input Power	
Input Phase	Single Phase
Input Voltage	230 VAC
Input Voltage Range	190V to 275V
Input Frequency	60 Hz

Output Power	
Output Phase	Three Phase
Output Voltage	230V
Output Voltage Range	190V - 275V
Output Frequency	5 Hz to 300 Hz
Horsepower	2 HP to 5 HP
Switching Frequency	2 kHz to 8 kHz
Output	V/f control

Electrical	
Short Circuit Withstand Rating	5 kA RMS Symmetrical Amps
Efficiency	95%
Startup Ramp Time	1 to 120 s
Shutdown Ramp Time	1 to 120 s or Coast To Stop
Overload Capacity	120% for 60 s

Analog Inputs	
Quantity	Two Programmable
Current Reference	4-20 mA Two Input
Voltage Reference	0 to 5 VDC One Input
Terminal Block Size	24 to 16 AWG