# **SUBMITTAL DATA SHEET**

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

### **AutoDRIVE - Variable Frequency Drive**



- 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

Part No.	Model No.	HP	Wt.
6619-018	SD1-2HP2PS w/Pressure Switch	2	13
6619-019	SD1-2HP2 w/Transducer	2	13
6619-020	SD3-2HP2*	2	13
6619-021	SD3-3HP2	3	13
6619-022	SD3-5HP2	5	13

\* 1 1/2 HP 3 Phase Motor assembled units use the SD3-2HP2 DRIVE

### Breaker Recommendations

Fuse/Breaker Recommendations Single Phase		Fuse/Breaker Recommendations Three Phase					
Motor HP	Input Current	Fuse/Breaker	Motor HP	Input Current	Fuse/Breaker		
	115V			230V			
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		
	230V						
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	$14-6~\mathrm{AWG}$			
Minimum Torque	10.5 in-lb			



NO-LEAD: The weighted average of the wetted surface of this no-lead product contacted by consumable water contains less than one quarter of one percent (0.25%) lead.



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**Rugged & Compact** 

- NEMA 3R steel enclosure

Rated to 122°F, (104°F for SD3-5HP2)

Feature Set | Power Behind The Pump

for all pumping applications

- Feature set provides complete control capability

A.Y. McDonald considers the information on this assembly drawing correct when published. Item and option availability, including specifications, are subject to change without notice.

Submitted by:

3/22

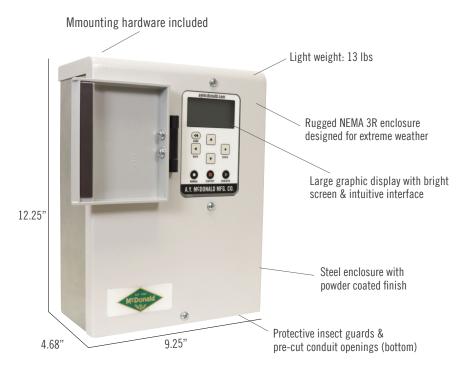


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#### Enclosure Overview





	Physical / Environmental	(	Jutput Power	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)	Output Phase	Three Phase	
	-20°C to 40°C (-4°F to 104°F)	Output Voltage	230V	
Storage Temperature Range	-30°C to 60°C ( <i>-22°F to 140°F</i> )	Output Voltage Range	190V - 275V	
Enclosure	NEMA Type 3R: Outdoor   Rainproof	Output Frequency	5 Hz to 300 Hz	
Altitude	Derate by 5 $^{\circ}\mathrm{C}$ every 2000 ft over 5500 ft of elevation	Horsepower	2 HP to 5 HP	
Dimensions	12.25 in x 9.25 in x 4.68 in	Switching Frequency	2 kHz to 8 kHz	
Weight	13 lbs	Output	V/f control	
Specifications		Electrical		
Model Number	SD3-2HP2   SD3-3HP2   SD3-5HP2	Short Circuit Withstand Rating	5 kA RMS Symmetrical Amps	
Horsepower	2 HP, 3 HP, 5 HP	Efficiency	95%	
Motor Style	3-Wire	Startup Ramp Time	1 to 120 s	
	Rated Current	Shutdown Ramp Time	1 to 120 s or Coast To Stop	
Rated Input Current	Max: 20 A, 30 A, 42 A	Overload Capacity	120% for 60 s	
Rated Output Current	Max: 11 A, 13 A, 22 A	Analog Inputs		
	Input Power	Quantity	Two Programmable	
Input Phase	Single Phase	Current Reference	4-20 mA Two Input	
Input Voltage	230 VAC	Voltage Reference	0 to 5 VDC One Input	
Input Voltage Range	190V to 275V	Terminal Block Size	24 to 16 AWG	
Input Frequency	60 Hz			

