

# SUBMITTAL DATA SHEET

## 4" No-Lead Stainless Steel Submersible Pumps AutoPACs 23000 - 20 GPM



### Stainless Steel - 23000 Series

Two Wire Single Phase, w/Pressure Switch

Model No.	Model No.	HP	Stages	Volt	WT.
6630-587	23050P2-APS	1/2 HP	5	230V	41
6630-599	23075P2-APS	3/4 HP	7	230V	44
6630-611	23100P2-APS	1 HP	9	230V	50
6630-623	23150P2-APS	1 1/2 HP	12	230V	56

Three Wire Single Phase, w/Pressure Switch

Model No.	Model No.	HP	Stages	Volt	WT.
6630-635	23050P3-APS	1/2 HP	5	230V	39
6630-647	23075P3-APS	3/4 HP	7	230V	41
6630-659	23100P3-APS	1 HP	9	230V	49
6630-671	23150P3-APS	1 1/2 HP	12	230V	55
6630-681	23200P3-APS	2 HP	14	230V	56

Two Wire Single Phase, w/Transducer

Model No.	Model No.	HP	Stages	Volt	WT.
6630-581	23050P2-APT	1/2 HP	5	230V	41
6630-593	23075P2-APT	3/4 HP	7	230V	44
6630-605	23100P2-APT	1 HP	9	230V	50
6630-617	23150P2-APT	1 1/2 HP	12	230V	56

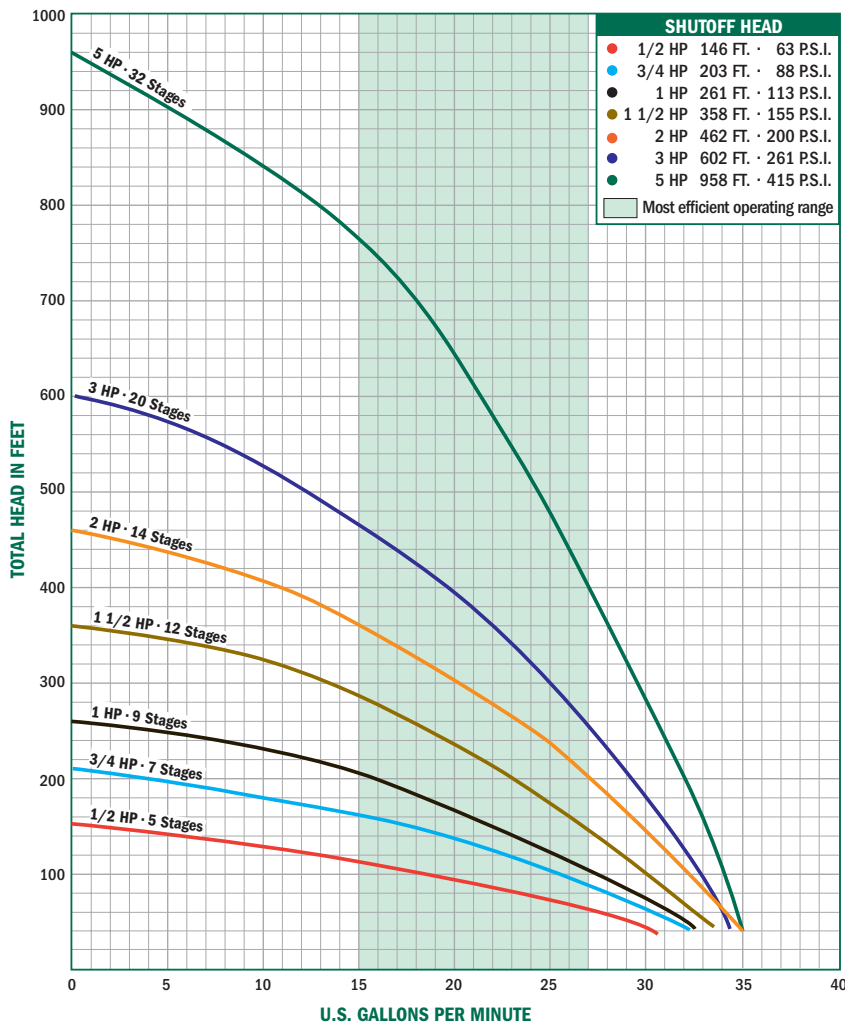
Three Wire Single Phase, w/Transducer

Model No.	Model No.	HP	Stages	Volt	WT.
6630-629	23050P3-APT	1/2 HP	5	230V	39
6630-641	23075P3-APT	3/4 HP	7	230V	41
6630-653	23100P3-APT	1 HP	9	230V	49
6630-665	23150P3-APT	1 1/2 HP	12	230V	55
6630-676	23200P3-APT	2 HP	14	230V	56

Three Wire Three Phase, w/Transducer

Model No.	Model No.	HP	Stages	Volt	WT.
6630-886	23100P3Z-APT	1 HP	9	230V	50
6630-853	23150P3Z-APT	1 1/2 HP	12	230V	54
6630-686	23200P3Z-APT	2 HP	14	230V	48
*6630-690	23300P3Z-APT	3 HP	20	230V	68
*6630-694	23500P3Z-APT	5 HP	32	230V	84

\*3 HP and 5 HP AutoPAC's will be sold as sales kits (shipped in three boxes)



**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.



**A.Y. McDonald Mfg. Co.**  
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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:**

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## 4" No-Lead Stainless Steel Submersible Pumps AutoPACs 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 I 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
<i>Rated output current for 2 HP model based on typical full load current for submersible motors.</i>	
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

### Technical Specifications - Three Phase

Physical / Environmental	
Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-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 I 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

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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