

**MOTOR SPECIFICATIONS**

|                              |                            |
|------------------------------|----------------------------|
| <b>Motor Design</b>          | Induction                  |
| <b>Motor Type</b>            | Enclosed submersible       |
| <b>Insulation Class</b>      | Class B                    |
| <b>Motor Protection</b>      | Bi-metallic Thermal Switch |
| <b>Bi-Metallic Temp Trip</b> | 120° C ± 5° C              |
| <b>Service Factor</b>        | 1.0                        |
| <b>Voltage Tolerance</b>     | ± 10% from nominal         |


**MOTOR DATA, 60Hz**

| Model  | Phase | Output Power BHP | Volts | Full Load Amps | Locked Rotor Amps | NEMA Code Letter | Power Factor 100% Load | Motor Efficiency 100% Load | Pole/Speed (rpm) |
|--------|-------|------------------|-------|----------------|-------------------|------------------|------------------------|----------------------------|------------------|
| SL-100 | 1     | 1                | 115   | 12             | 60                | H                | 0.978                  | 0.676                      | 2/3450           |
|        | 1     | 1                | 208   | 6.6            | 33                | H                | 0.965                  | 0.654                      | 2/3450           |
|        | 1     | 1                | 230   | 6              | 30                | H                | 0.860                  | 0.678                      | 2/3450           |
|        | 3     | 1                | 208   | 4.4            | 22                | J                | 0.884                  | 0.682                      | 2/3450           |
|        | 3     | 1                | 230   | 4              | 20                | J                | 0.869                  | 0.746                      | 2/3450           |
|        | 3     | 1                | 460   | 2              | 10                | J                | 0.898                  | 0.731                      | 2/3450           |
|        | 3     | 1                | 575   | 1.6            | 8                 | J                | 0.881                  | 0.729                      | 2/3450           |

**MATERIALS OF CONSTRUCTION**

|                          |   |
|--------------------------|---|
| <b>Upper Motor Lid</b>   | Cast Iron (FC15)  |
| <b>Motor Housing</b>     | AISI 304 Stainless Steel                                      |
| <b>Oil Chamber</b>       | Aluminum (ADC 12)   |
| <b>Volute</b>            | Cast Iron (FC20)  |
| <b>External Hardware</b> | AISI 304 Stainless Steel                                      |
| <b>O-Rings</b>           | NBR   |
| <b>Motor Shaft</b>       | Stainless Steel (410)   |
| <b>Upper Bearing</b>     | Single row, doubled sealed                                    |
| <b>Lower Bearing(s)</b>  | Single row, doubled sealed                                    |
| <b>Upper Shaft Seal</b>  | CA/CE (carbon/ceramic)  |
| <b>Lower Shaft Seal</b>  | SIC/SIC (silicon carbide/silicon carbide)                     |
| <b>Impeller</b>          | Hytrell (steel coated with thermoplastic polyester elastomer) |

**DIMENSIONS, WEIGHT, AND MISC.**

|                                      |                            |
|--------------------------------------|----------------------------|
| <b>Pump weight single phase</b>      | 31lbs (14kg)               |
| <b>Pump weight three phase</b>       | 31lbs (14kg)               |
| <b>Maximum submergence</b>           | 33 feet (10m)              |
| <b>Discharge size, standard</b>      | 2-inch NPS female vertical |
| <b>Maximum temp. of pumped fluid</b> | 104°F (40°C)               |
| <b>Inlet Opening</b>                 | 2 mm                       |

**CABLE SPECIFICATIONS**

| MODEL  | PHASE/VOLTAGE | POWER CABLE | LENGTH    | OUTER JACKET |
|--------|---------------|-------------|-----------|--------------|
| SL-100 | 1Ø 115V       | SJTOW 16/3  | 50' (15m) | PVC          |
|        | 1Ø 208V       | SJTOW 16/3  | 50' (15m) | PVC          |
|        | 1Ø 230V       | SJTOW 16/3  | 50' (15m) | PVC          |
|        | 3Ø 208V       | STOW 16/4   | 50' (15m) | PVC          |
|        | 3Ø 230V       | STOW 16/4   | 50' (15m) | PVC          |
|        | 3Ø 460V       | STOW 16/4   | 50' (15m) | PVC          |
|        | 3Ø 575V       | STOW 16/4   | 50' (15m) | PVC          |

Power cable suitable for all standard voltages listed in "MOTOR DATA" section.  
 Document valid only for pump with serial number 1327-001 and up.  
 Refer to previous document revision for earlier serial number.

Specifications subject to change without notice



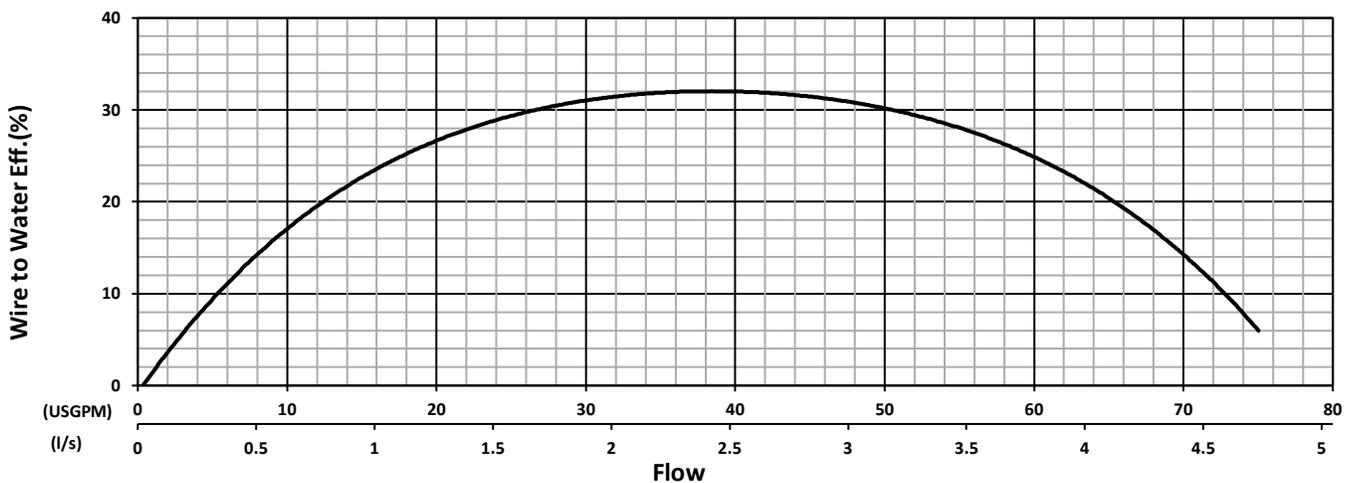
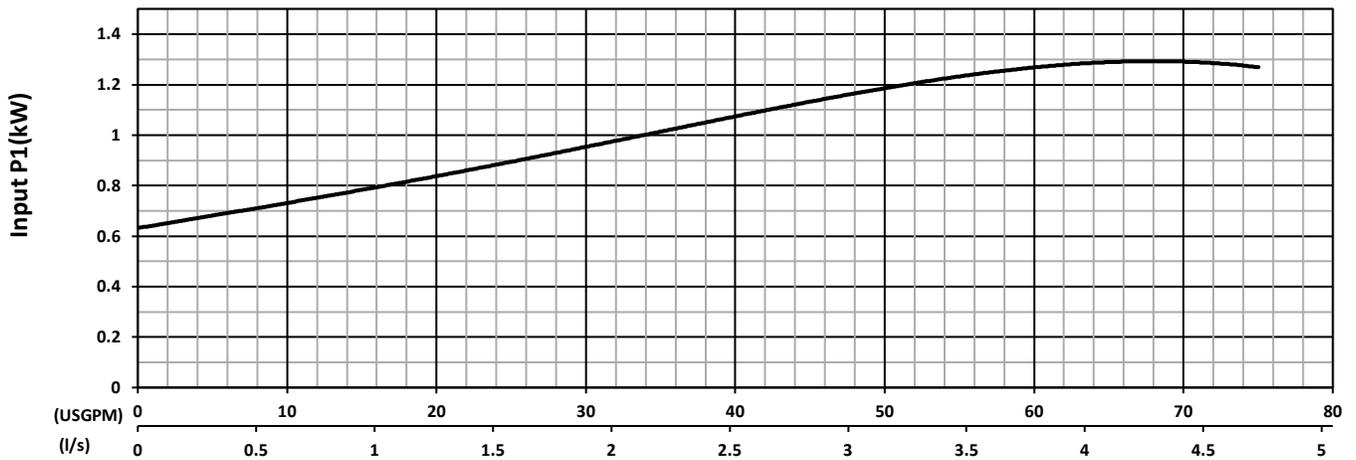
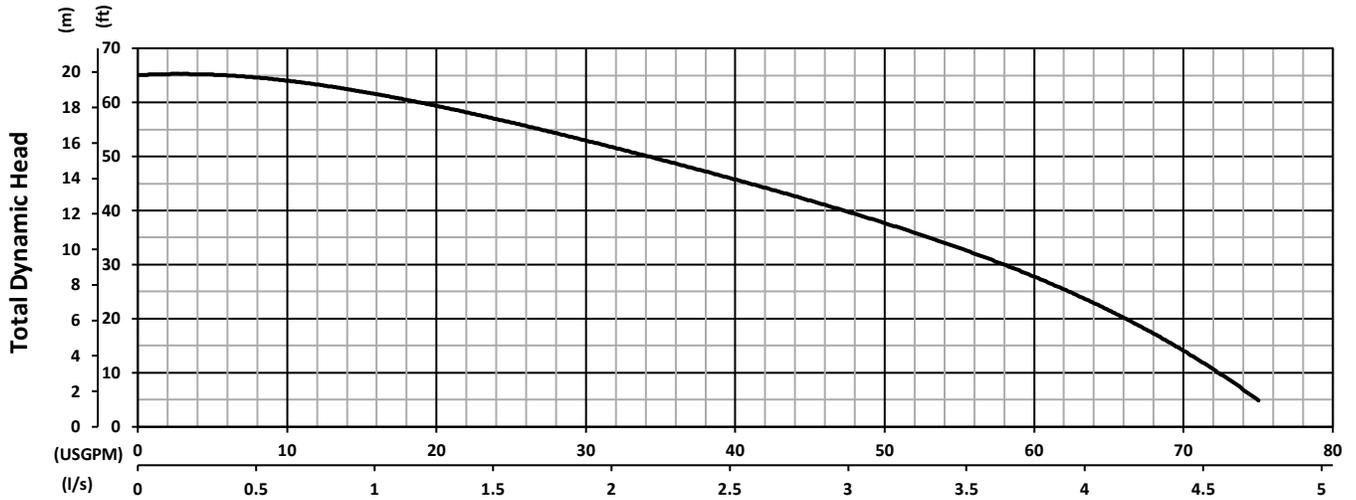
# PERFORMANCE CURVE

# Avenger Series SL-100

Dwg: DS-A12-007

Rev: 3

Date: 3/5/2018



Test Standard : HI 11.6 Gr 3B  
 Tested with water at 20°C

### Pump Performance Test - Dual Units

Frequency 60 Hz  
 Pump Speed 3450 RPM  
 Impeller Ø108mm

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