# SKS Series Pump | Submittal Data

**Submittal No:** 301-S186 | **Model:** SKS3007D | **RPM:** 3500 | **HP:** 20HP | **Effective:** July 24, 2020 | **Supersedes:** January 27, 2020

**JOB:** _____ **REPRESENTATIVE:** _____

**ENGINEER:** _____ **CONTRACTOR:** _____

## PRODUCT DATA

**ITEM NO.** _____ **DOE BASIC MODEL NO.** SKS3007D-A-2P-PD

**MODEL NO.** _____ **VOLTAGE** _____ **PEI$_{VL}$** 0.45 **HI ENERGY RATING** 55

**IMPELLER DIA.** _____ **WEIGHT** _____

**GPM** _____ **PUMP/MOTOR** _____

**HEAD/FT** _____ **FREQUENCY** _____

**RPM** 3500 **HP** 20 **PHASE** _____

**NSF 61 CERTIFIED*** ☐ YES ☐ NO
*Not configurable as a standard option; please contact your account manager to configure.

**SUPPORT STAND OPTION** ☐ YES ☐ NO
(Ductile Iron ASTM A536-84 Grade 65-45-12)

## OPERATING SPECIFICATIONS

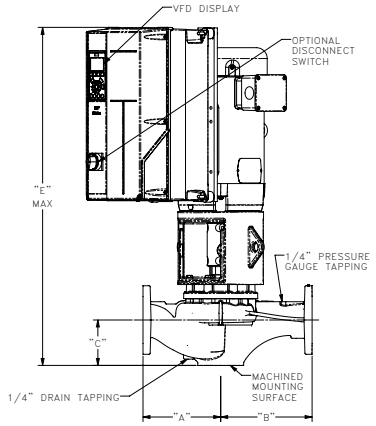
| FLANGE | PRESSURE | TEMPERATURE |
|---|---|---|
| ANSI Class 125 | 175 PSIG* (1210 KPA) | 250°F (120°C) |
| ANSI Class 250 | 300 PSIG** (2070 KPA) | 250°F (120°C) |

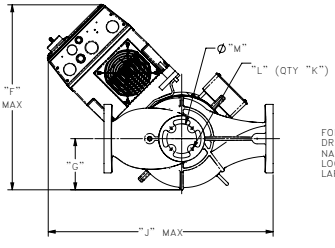
* In accordance with ANSI Standard B16.1 Class 125
** In accordance with ANSI Standard B16.1 Class 250

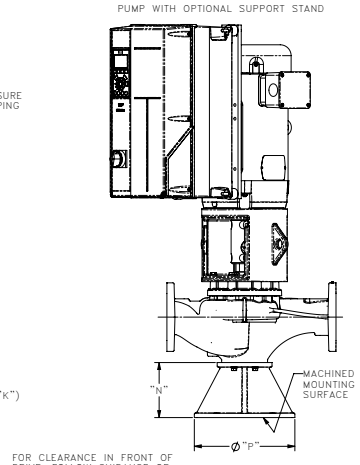
## DIMENSIONS

**Model No.** | 3007D
**Flange Size (Suction x Discharge)** | 3 x 3 (76 x 76)

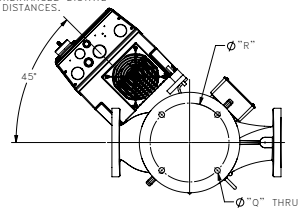
| | |
|---|---|
| **HORSEPOWER** | 20 |
| **MOTOR FRAME TEFC** | 256TC |
| **MOTOR FRAME ODP** | 254TC |
| **WEIGHT WITHOUT OPTIONAL STAND LBS (KG)** | 629 (285) |
| **WEIGHT WITH OPTIONAL STAND LBS (KG)** | 650 (295) |
| **FLANGE SIZE ASA** | 3 (76) |
| **A*** | ANSI CLASS 125: 10 (254) |
| | ANSI CLASS 250: 10.37 (263) |
| **B*** | ANSI CLASS 125: 10 (254) |
| | ANSI CLASS 250: 10.37 (263) |
| **C** | 6.3 (160) |
| **E MAX** | 49.18 (1249) |
| **F MAX** | 22.18 (563) |
| **G** | 6.55 (166) |
| **J MAX** | 25.62 (651) |
| **K** | 4 |
| **L** | 3/8-16 UNC-2B |
| **M** | 2.88 (73) |
| **N** | 6 (152) |
| **P** | 9.38 (238) |
| **Q** | 0.63 (16) |
| **R** | 7.75 (197) |




FOR CLEARANCE IN FRONT OF DRIVE, FOLLOW GUIDANCE OF NATIONAL ELECTRIC CODE UNLESS LOCAL ORDINANCES DICTATE LARGER DISTANCES.




*A & B Dimensions apply for all pump sizes.

English dimensions are in inches. Metric dimensions are in millimeters.
Metric data is presented in ( ). Do not use for construction purposes unless certified.

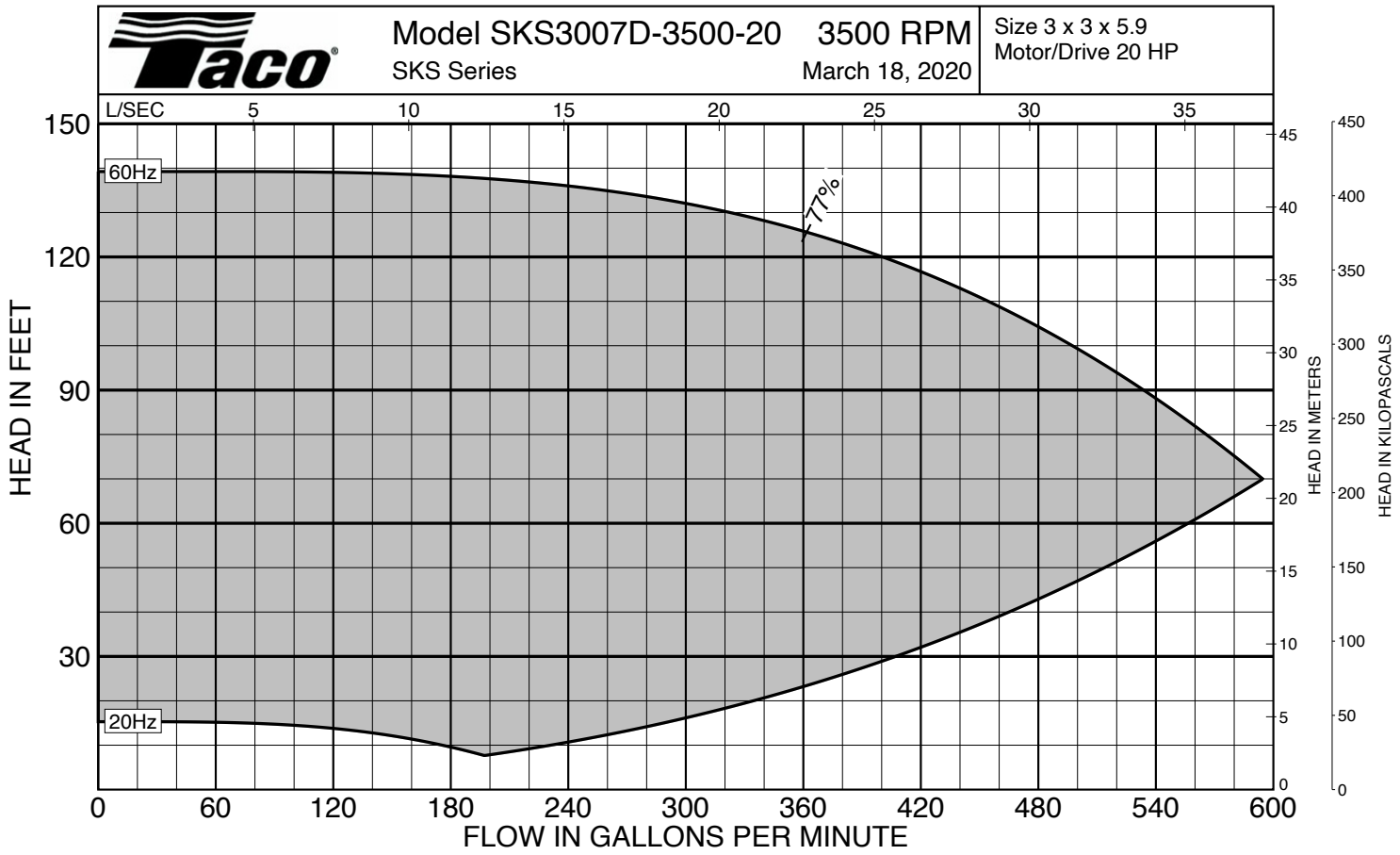
| MATERIALS OF CONSTRUCTION | | | CASING | COVER | IMPELLER | WEAR RING | SHAFT | COUPLING | MECHANICAL SEAL | SEAL FLUSH LINE ASSEMBLY | SUPPORT STAND |
|---|---|---|---|---|---|---|---|---|---|---|---|
| STANDARD CONSTRUCTION | BRONZE FITTED | 125# FLANGE | Cast Iron ASTM A48/A48M-03 Class 30A | Cast Iron ASTM A48/A48M-03 Class 30A | Bronze ASTM B584 ALLOY C83600 or C84400 | N/A | Stainless Steel TYPE 416"T" ASTM A582 | Aluminum Alloy 6061-T6 | Ceramic/EPT | Copper & Brass C3600 | N/A |
| | | 250# FLANGE | Ductile Iron ASTM A536-84 Grade: 65-45-12 | Cast Iron ASTM A48/A48M-03 Class 30A | Bronze ASTM B584 ALLOY C83600 or C84400 | N/A | Stainless Steel TYPE 416"T" ASTM A582 | Aluminum Alloy 6061-T6 | Ceramic/EPT | Copper & Brass C3600 | N/A |
| OPTIONAL | | 125# OR 250# | N/A | N/A | Stainless Steel ASTM A351/A 351M-08 | Bronze ASTM B584-98A C92200 | N/A | N/A | Tungsten Carbide/EPT or Silicon-Carbide/EPT | N/A | Ductile Iron ASTM A536-84 Grade 65-45-12 |
| STANDARD CONSTRUCTION | NSF 61 | 125# FLANGE | Cast Iron ASTM A48/A48M-03 Class 30A | Cast Iron ASTM A48/A48M-03 Class 30A | Stainless Steel ASTM A351/A 351M-08 | N/A | Stainless Steel TYPE 416"T" ASTM A582 | Aluminum Alloy 6061-T6 | Ceramic/EPT | Copper & Brass C3600 | N/A |
| | | 250# FLANGE | Ductile Iron ASTM A536-84 Grade: 65-45-12 | Cast Iron ASTM A48/A48M-03 Class 30A | Stainless Steel ASTM A351/A 351M-08 | N/A | Stainless Steel TYPE 416"T" ASTM A582 | Aluminum Alloy 6061-T6 | Ceramic/EPT | Copper & Brass C3600 | N/A |
| OPTIONAL | | 125# OR 250# | N/A | N/A | N/A | Bronze ASTM B584-98A C92200 | N/A | N/A | N/A | N/A | Ductile Iron ASTM A536-84 Grade 65-45-12 |

N/A - Not Available

## DRIVE DATA

| | |
|---|---|
| **PROTOCOLS (Standard)** | BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol |
| **PROTOCOLS (Optional)** | ☐ LonWorks® ☐ DeviceNet ☐ Profibus |
| **ENCLOSURE** | ☐ NEMA Type 12 / IP55 ☐ NEMA Type 4X / IP66 |
| **I/O (Standard)** | 6 Digital Inputs / 2 Digital Outputs<br>1 Analog Current Output / 2 Analog Inputs<br>2 Pulse Inputs<br>2 Form C Relays |
| **ADDITIONAL CONTROL OPTIONS** | ☐ None ☐ General Purpose I/O ☐ Relay Card<br>☐ 24VDC Supply ☐ Analog I/O |
| **DISCONNECT SWITCH** | ☐ Mechanical ☐ Fused |
| **EMC/RFI CONTROL** | Intergated filter designed to meet EN61800-3 |
| **HARMONIC SUPPRESSION** | Dual DC-link chokes (Equivalent: 5% AC line reactor)<br>Supporting IEEE 519-1992 requirements |
| **COOLING** | Fan-cooled through back channel |
| **AMBIENT TEMPERATURE** | -10°C to 45°C up to 1000 meters above sea level<br>-14°F to 113°F up to 3300 feet above sea level |

## COMMENTS




Curves based on Clear Water @ 60F with a Specific Gravity of 1.0