SKS Series Pump | Submittal Data

Submittal No: 301-2323-U | **Model:** SKS1213B | **RPM:** 1760 | **HP:** 200HP | **Effective:** December 22, 2022 | **Supersedes:** October 21, 2019

JOB: _____ **REPRESENTATIVE:** _____

ENGINEER: _____ **CONTRACTOR:** _____

PRODUCT DATA

ITEM NO. _____

MODEL NO. _____ **VOLTAGE** _____

IMPELLER DIA. _____ **WEIGHT** _____

GPM _____ **PUMP/MOTOR** _____

HEAD/FT _____ **FREQUENCY** _____

RPM 1760 **HP** 200 **PHASE** _____

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

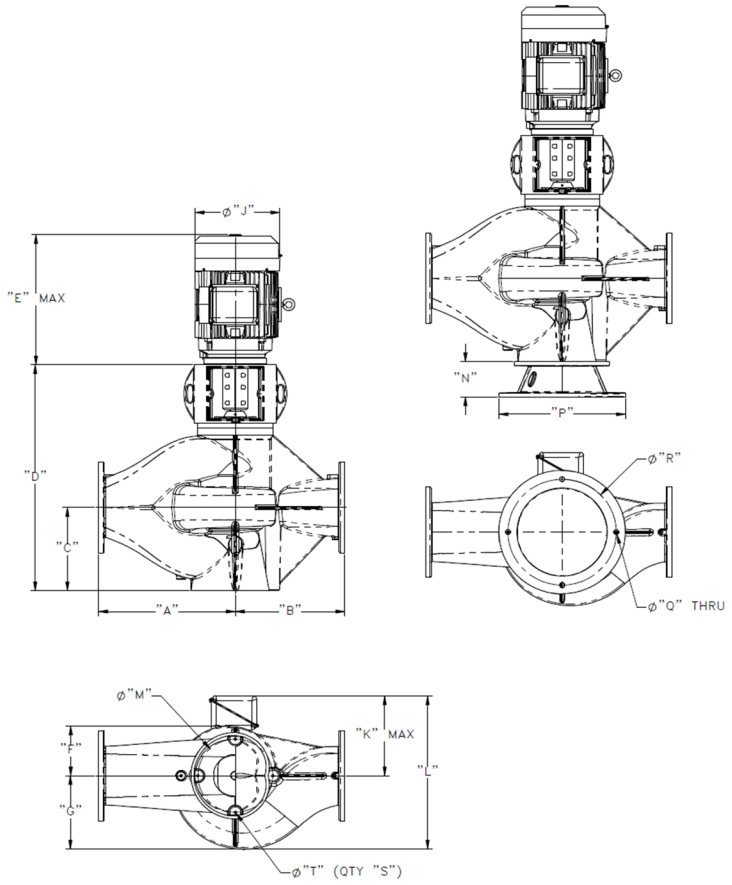
DIMENSIONS

Model No. | 1213B
Flange Size (Suction x Discharge) | 12 x 12 (305 x 305)

HORSEPOWER	200	
MOTOR FRAME TEFC		447TC
MOTOR FRAME ODP	445TC	
WEIGHT WITHOUT OPTIONAL STAND LBS (KG)	3962 (1797)	4874 (2211)
WEIGHT WITH OPTIONAL STAND LBS (KG)	4273 (1938)	5185 (2352)
FLANGE SIZE ASA	12 (305)	
A*	ANSI CLASS 125: 30.25 (768)	
	ANSI CLASS 250: 31.00 (787)	
B*	ANSI CLASS 125: 24.25 (616))	
	ANSI CLASS 250: 25.00 (635)	
C	18.87 (479)	
D	51.26 (1302)	55.21 (1402)
E MAX	43.49 (1104)	52.50 (1333)
F	11.24 (285)	
G	16.66 (423)	
J DIA	24.56 (544)	
K	20.75 (527)	21.71 (551)
L	37.41 (950)	38.37 (975)
M	16.61 (422)	
N	8.00 (203)	
P	28.00 (711)	
Q	1.13 (29)	
R	24.00 (610)	
S	4	
T	5/8-11 UNC-2B	

*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.

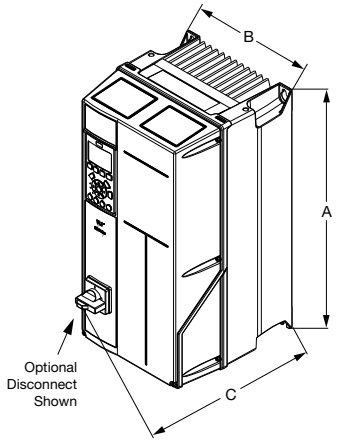


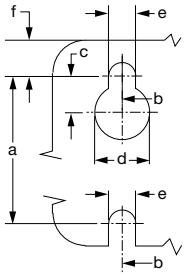
MATERIALS OF CONSTRUCTION		CASING	IMPELLER	WEAR RING	SHAFT	COUPLING	MECHANICAL SEAL	SEAL FLUSH LINE	SUPPORT STAND
STANDARD CONSTRUCTION	BRONZE FITTED	Ductile Iron ASTM A536-84 Grade:65-45-12	Bronze ASTM B583-836	None	St. Steel AISI 416 ASTM A582	Aluminum Alloy 6061-T6	Ceramic / EPT	Copper	N/A
OPTIONAL		N/A	CF	Bronze ASTM B584-932 SAE660	N/A	N/A	Tungsten Carbide / EPT	CF	Ductile Iron ASTM A536-84 Grade 65-45-12
STANDARD CONSTRUCTION	ALL IRON	Ductile Iron ASTM A536-84 Grade:65-45-12	Cast Iron ASTM A48 Class 30A	None	St. Steel AISI 416 ASTM A582	Aluminum Alloy 6061-T6	Ceramic / EPT	Stainless Steel	N/A
OPTIONAL		N/A	CF	N/A	N/A	N/A	Tungsten Carbide / EPT	CF	Ductile Iron ASTM A536-84 Grade 65-45-12

N/A - Not Available CF - Consult Factory

DRIVE DATA

PROTOCOLS (Standard)	BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol
PROTOCOLS (Optional)	☐LonWorks® ☐DeviceNet ☐Profibus
ENCLOSURE	☐NEMA Type 1 / IP21 ☐NEMA Type 12 / IP55
I/O (Standard)	6 Digital Inputs / 2 Digital Outputs 1 Analog Current Output / 2 Analog Inputs 2 Pulse Inputs 2 Form C Relays
ADDITIONAL CONTROL OPTIONS	☐None ☐General Purpose I/O ☐Relay Card ☐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) 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 -14°F to 113°F up to 3300 feet above sea level





Frames A2 through D2 (4x mounts)

CONTROL CONNECTIONS

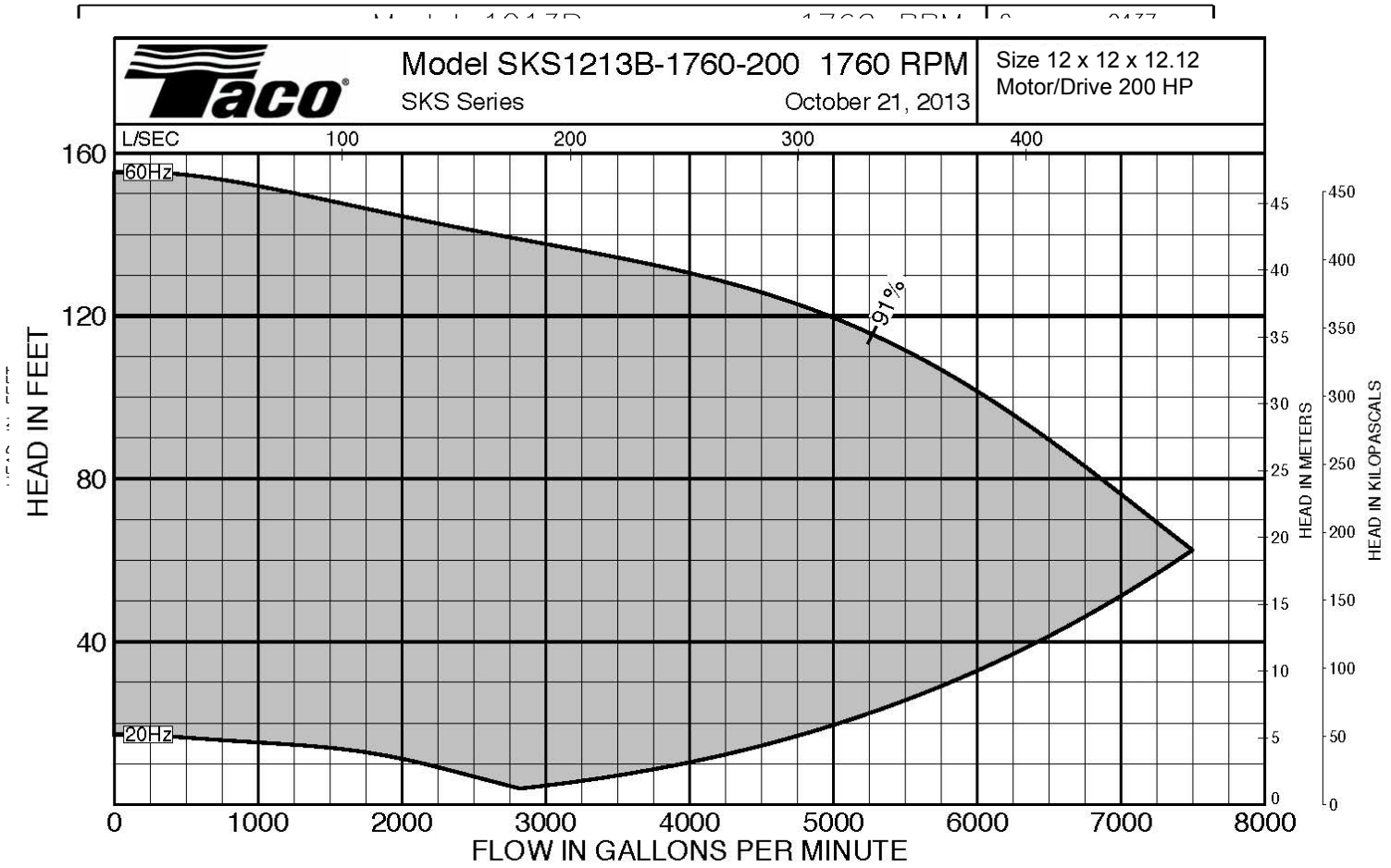
Analog input (follower signal)	2; selectable voltage or current, direct and inverse acting
Digital inputs (programmable)	6 (2 can be used as digital outputs)
Analog outputs (programmable)	1; 0/4 to 20 mA
Relay outputs (programmable)	2 standard Form C 240 V AC, 2 A; 1 or 3 additional optional
Auxiliary voltage	+24 V DC, maximum 200 mA
Communication port	1 RS485, 1 USB

MAXIMUM DIMENSIONS & WEIGHTS

Frame Size	Power Range – HP (kW)			NEMA Type 1 / IP21 Inches (mm)			NEMA Type 12 / IP55 (IP54 D & E) – Inches (mm)			Max Weight Lbs (Kg)
	200V - 240V	380V - 480V	525V - 600V	A	B	C	A	B	C	
A2	1.5 (1.1) - 3 (2.2)	1.5 (1.1) - 5 (4.0)	—	19.1 (485)	5.1 (130)	9.6 (245)	N/A	N/A	N/A	30 (14)
A3	4 (3.0) - 5 (4.0)	7.5 (5.5) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	19.1 (485)	5.1 (130)	9.6 (245)	N/A	N/A	N/A	30 (14)
A5	1.5 (1.1) - 5 (4.0)	1.5 (1.1) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	N/A	N/A	N/A	16.5 (420)	9.5 (242)	9.6 (243)	35 (16)
B1	7.5 (5.5) - 15 (11.0)	15 (11.0) - 25 (18.0)	15 (11.0) - 25 (18.0)	18.9 (480)	9.5 (242)	12.1 (308)	18.9 (480)	9.5 (242)	12.1 (308)	65 (30)
B2	20 (15.0) - 20 (15.0)	30 (22.0) - 40 (30.0)	30 (22.0) - 40 (30.0)	25.6 (650)	9.5 (242)	12.1 (308)	25.6 (650)	9.5 (242)	12.1 (308)	70 (32)
C1	25 (18.0) - 40 (30.0)	50 (37.0) - 75 (55.0)	50 (37.0) - 75 (55.0)	26.9 (680)	12.1 (308)	14.1 (359)	26.9 (680)	12.1 (308)	14.1 (359)	100 (45)
C2	50 (37.0) - 60 (45.0)	100 (75.0) - 125 (90.0)	100 (75.0) - 125 (90.0)	30.3 (770)	14.6 (370)	14.9 (379)	30.3 (770)	14.6 (370)	14.9 (379)	143 (65)
D1	N/A	150 (110.0) - 200 (132.0)	150 (132.0) - 200 (160.0)	47.5 (1208)	16.5 (420)	16.3 (414)	47.5 (1208)	16.5 (420)	16.3 (414)	229 (104)
D2	N/A	250 (160.0) - 350 (250.0)	250 (200.0) - 400 (400.0)	62.5 (1588)	16.5 (420)	16.4 (417)	62.5 (1588)	16.5 (420)	16.4 (417)	364 (165)

BACKPLATE MOUNTING HOLE DIMENSIONS – Inches (mm)

Frame Size	a	b	c	d	e	f	Frame Size	a	b	c	d	e	f
A2	17.62 (447.5)	4.33 (110)	0.32 (8)	0.43 (11)	0.22 (5.5)	0.35 (9)	C1	25.51 (648.0)	10.71 (272)	0.49 (12.5)	0.75 (19)	0.35 (9)	0.39 (10)
A3	17.62 (447.5)	4.33 (110)	0.32 (8)	0.43 (11)	0.22 (5.5)	0.35 (9)	C2	29.09 (739.0)	13.15 (334)	0.49 (12.5)	0.75 (19)	0.35 (9)	0.39 (10)
A5	15.82 (401.7)	8.46 (215)	0.32 (8)	0.47 (12)	0.26 (6.5)	0.25 (6.5)	D1	45.4 (1154)	12.00 (304)	N/A	N/A	0.40 (11)	1.00 (25)
B1	17.87 (453.9)	8.27 (210)	0.47 (12)	0.75 (19)	0.35 (9)	0.35 (9)	D2	60.4 (1535)	12.00 (304)	N/A	N/A	0.40 (11)	1.00 (25)
B2	24.57 (624.0)	8.27 (210)	0.47 (12)	0.75 (19)	0.35 (9)	0.35 (9)							


Model SKS1213B-1760-200 1760 RPM
SKS Series
October 21, 2013
Size 12 x 12 x 12.12
Motor/Drive 200 HP
L/SEC
100
200
300
400
160
120
80
40
60Hz
20Hz
91%
HEAD IN FEET
45
40
35
30
25
20
15
10
5
0
HEAD IN METERS
450
400
350
300
250
200
150
100
50
0
HEAD IN KILOPASCALS
0
1000
2000
3000
4000
5000
6000
7000
8000
FLOW IN GALLONS PER MINUTE

COMMENTS