Submittal Data Information
SFI Series Pumps

301-2740-F

EFFECTIVE: May 05, 2023 SUPERSEDES: January 27, 2020 MODEL SFI4011-1760-10

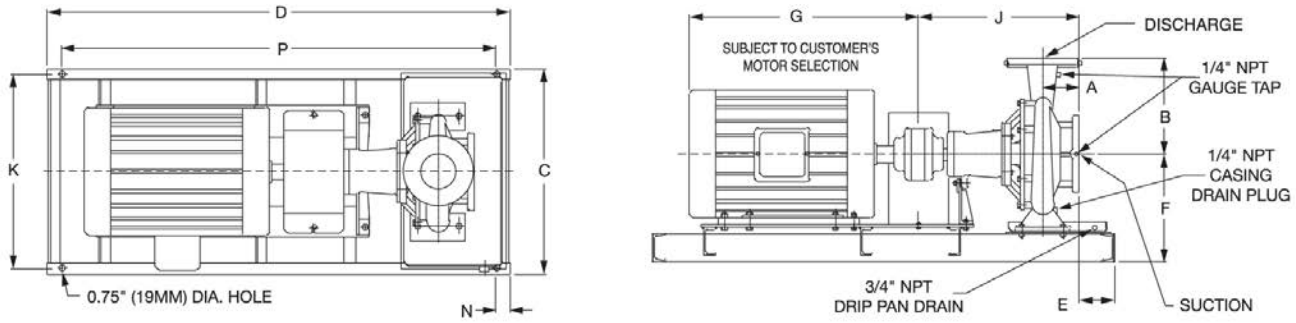
JOB: _____ ENGINEER: _____

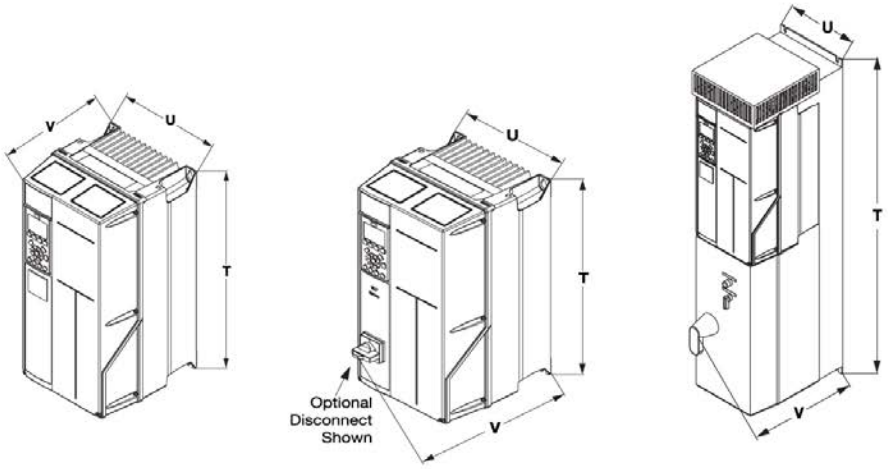
CONTRACTOR: _____ REP: _____

ITEM NO.	MODEL NO.	IMPELLER DIA.	G.P.M.	HEAD/FT	H.P.	ELEC. CHAR.

Configuration	DOE Basic Model Number	PEI Value		Energy Rating
Pump + Motor + Drive	SFI4011C-A-4P-PD	PEI_{vl}	0.48	52

WEIGHT _____ PUMP/MOTOR _____





Basic drive Drive with optional disconnect

HP Range			Frame	Dimensions - Inches (mm)		
208V	460V	575V		T	U	V
4 (3.0) - 5 (4.0)	7.5 (5.5) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	Without bypass A3	19.1 (485)	5.1 (130)	9.6 (245)
4 (3.0) - 5 (4.0)	7.5 (5.5) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	With bypass A3	31.7 (806)	7.6 (194)	9.7 (247)
7.5 (5.5) - 15 (11.0)	15 (11.0) - 25 (18.0)	15 (11.0) - 25 (18.0)	Without bypass B1	18.9 (480)	9.5 (242)	12.1 (308)
7.5 (5.5) - 15 (11.0)	15 (11.0) - 25 (18.0)	15 (11.0) - 25 (18.0)	With bypass B1	41.8 (1061)	9.1 (231)	15.9 (405)

DIMENSIONS for NEMA ODP Type 1 / IP21

50 Cycle Performance Curves attached when applicable.

Model No. Flange Size (Suction x Discharge)	Motor Frame	HP 1760 RPM	A ANSI Class 125	B ANSI Class 125	C	D	E ANSI Class 125	F	G	J ANSI Class 125	K	N	P
4011-10 5 x 4 (127 x 102)	215T	10	5.31 (135)	14.00 (356)	19.17 (487)	52.0 (1321)	0.46 (12)	14.03 (356)	18.19 (462)	24.24 (616)	17.67 (449)	2.00 (51)	48.0 (1219)

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

	BRONZE FITTED		ALL IRON	
	Standard Pump Construction	**Optional**	**Standard Pump Construction**	**Optional**
Impeller	Bronze ASTM B584-836	N/A	Cast Iron ASTM A48 Class 30A	N/A
Wear Ring	N/A	Bronze ASTM B584-932 SAE660	N/A	N/A
Shaft	Carbon Steel AISI 1054	Stainless Steel AISI 416 ASTM A382	Carbon Steel AISI 1054	Stainless Steel AISI 416 ASTM A382
Shaft Sleeve	Bronze ASTM B584-932 SAE660	Stainless Steel AISI 303 ASTM A276	Stainless Steel AISI 303 ASTM A276	N/A
Mech. Seal	Ceramic/EPT	C/F	Ceramic/EPT	C/F
Seal Flush Line	N/A	Copper	N/A	Stainless Steel

CF - Consult Factory
NA - Not Available

Model No. Flange Size (Suction x Discharge)	**HP 1760 RPM**	**A ANSI Class 250**	**B ANSI Class 250**	**E ANSI Class 250**	**J ANSI Class 250**
4011-10 5 x 4 (127 x 102)	10	5.75 (146)	14.31 (363)	0.03 (0.8)	24.68 (627)

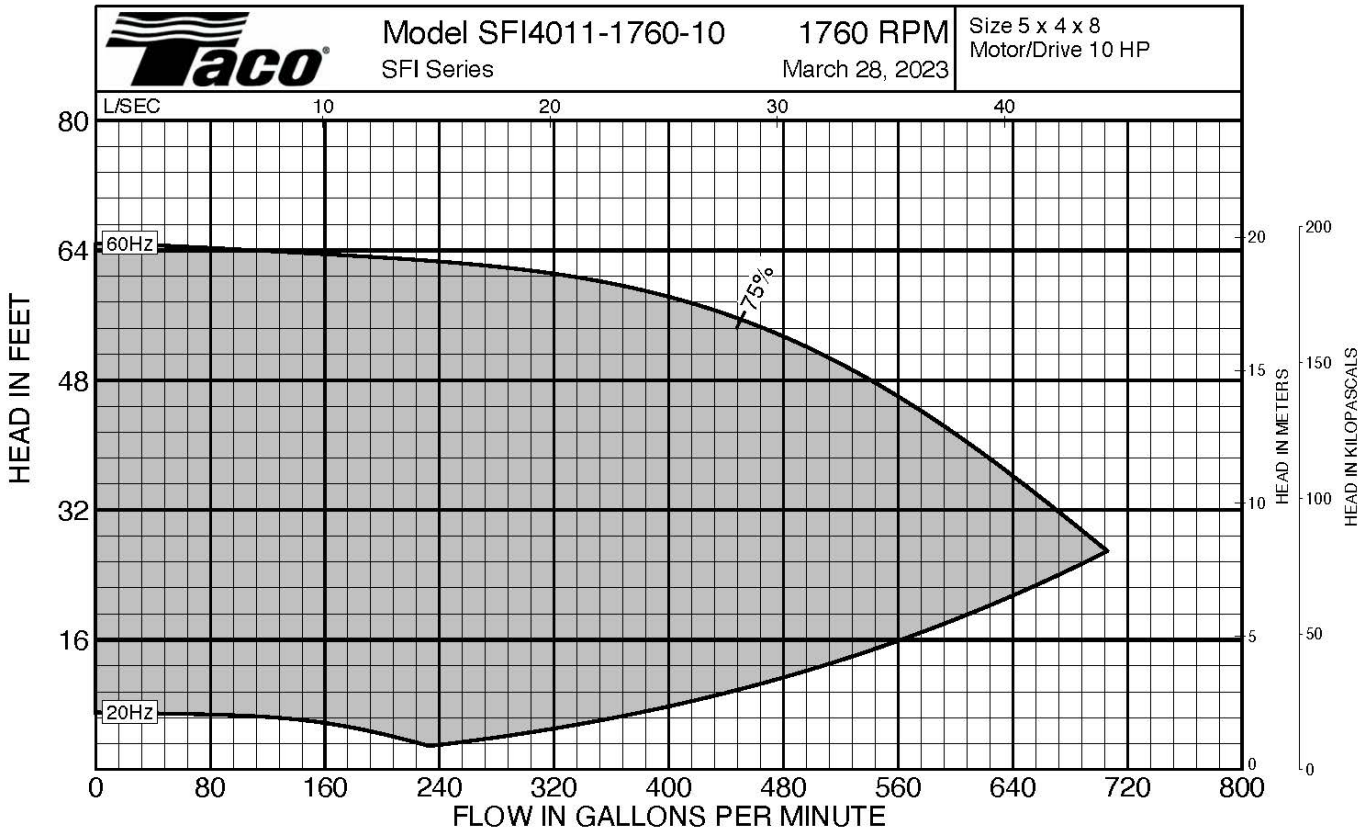
MAXIMUM ASSEMBLY WEIGHT

Motor Frame	**Weight Lbs (Kg)**
215T	578 (262)

OPERATING SPECIFICATIONS

	Standard	**Optional**
Flange	**ANSI Class 125**	**ANSI Class 250**
Pressure	175 PSIG* (1210 KPA)	300 PSIG** (2070 KPA)
Temperature	250°F (120°C)	250°F (120°C)

Motors: All NEMA Standard (T Frame)
* In accordance with ANSI Standard B16.1 Class 125
** In accordance with ANSI Standard B16.1 Class 250 Dim.



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

COMMENTS: _____

SPECIFICATIONS:

MOTOR DESIGN DATA	
HP	
Volts	
Frequency	Hz
Phase	

DRIVE DATA	
Protocols (Standard)	BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol
Protocols (Optional)	❒ LonWorks® ❒ DeviceNet ❒ Profibus
Enclosure	❒ NEMA Type 1 / IP21
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
Electrical Configuration	❒ Basic (no disconnect) ❒ Mechanical disconnect ❒ Fused disconnect ❒ 2 Contactor Bypass - Drive Fusing & Main Disconnect (5kA SCCR) ❒ 2 Contactor Bypass - Main Fusing & Disconnect (100kA SCCR) ❒ 3 Contactor Bypass - Drive Fusing & Main Disconnect (5kA SCCR) ❒ 3 Contactor Bypass - Main Fusing & Disconnect (100kA SCCR)
ENI/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

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

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