

Submittal Data Information

SFI Series Pumps

301-2703-C

EFFECTIVE: May 05, 2023

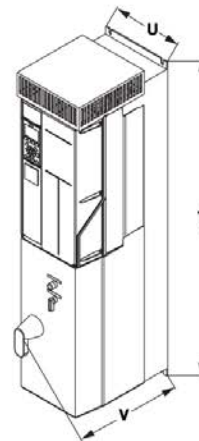
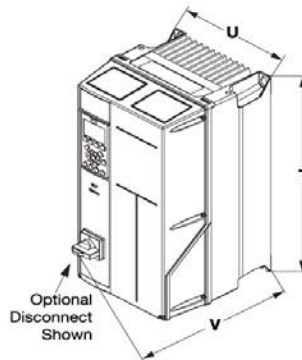
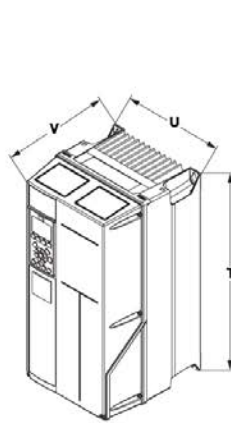
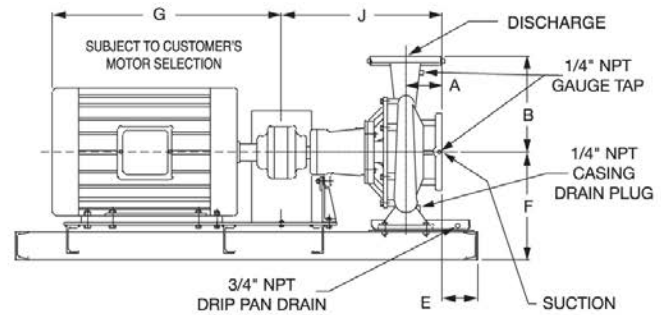
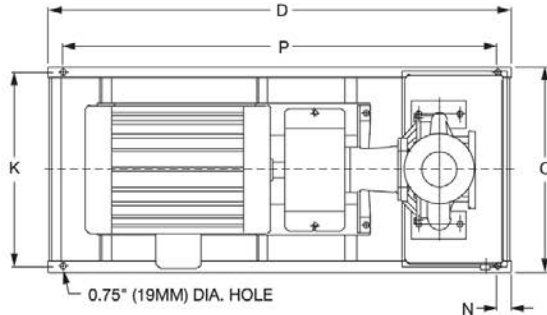
SUPERSEDES: January 27, 2020

MODEL SFI1209-1760-3

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	WEIGHT _____ PUMP/MOTOR _____		
Pump + Motor + Drive	SFI1209C-A-4P-PD	PEI _{val}	0.45	55			



Basic drive

Drive with optional disconnect

HP Range			Frame	Dimensions - Inches (mm)		
208V	460V	575V		T	U	V
1.5 (1.1) - 3 (2.2)	1.5 (1.1) - 5 (4.0)	N/A	Without bypass A2	19.1 (485)	5.1 (130)	9.6 (245)
1.5 (1.1) - 3 (2.2)	1.5 (1.1) - 5 (4.0)	N/A	With bypass A2	31.7 (806)	7.6 (194)	9.7 (247)
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)

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
1209-3 1 1/2 x 1 1/4 (38 x 32)	182T	3	3.50 (85)	9.10 (231)	17.18 (436)	40.0 (1016)	2.53 (64)	11.28 (287)	15.38 (391)	17.05 (433)	15.68 (398)	2.00 (51)	36.0 (914)

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
1209-3 1 1/2 x 1 1/4 (38 x 32)	3	3.75 (95)	9.36 (238)	2.28 (58)	17.30 (439)

MAXIMUM ASSEMBLY WEIGHT

Motor Frame	Weight Lbs (Kg)
182T	407 (185)

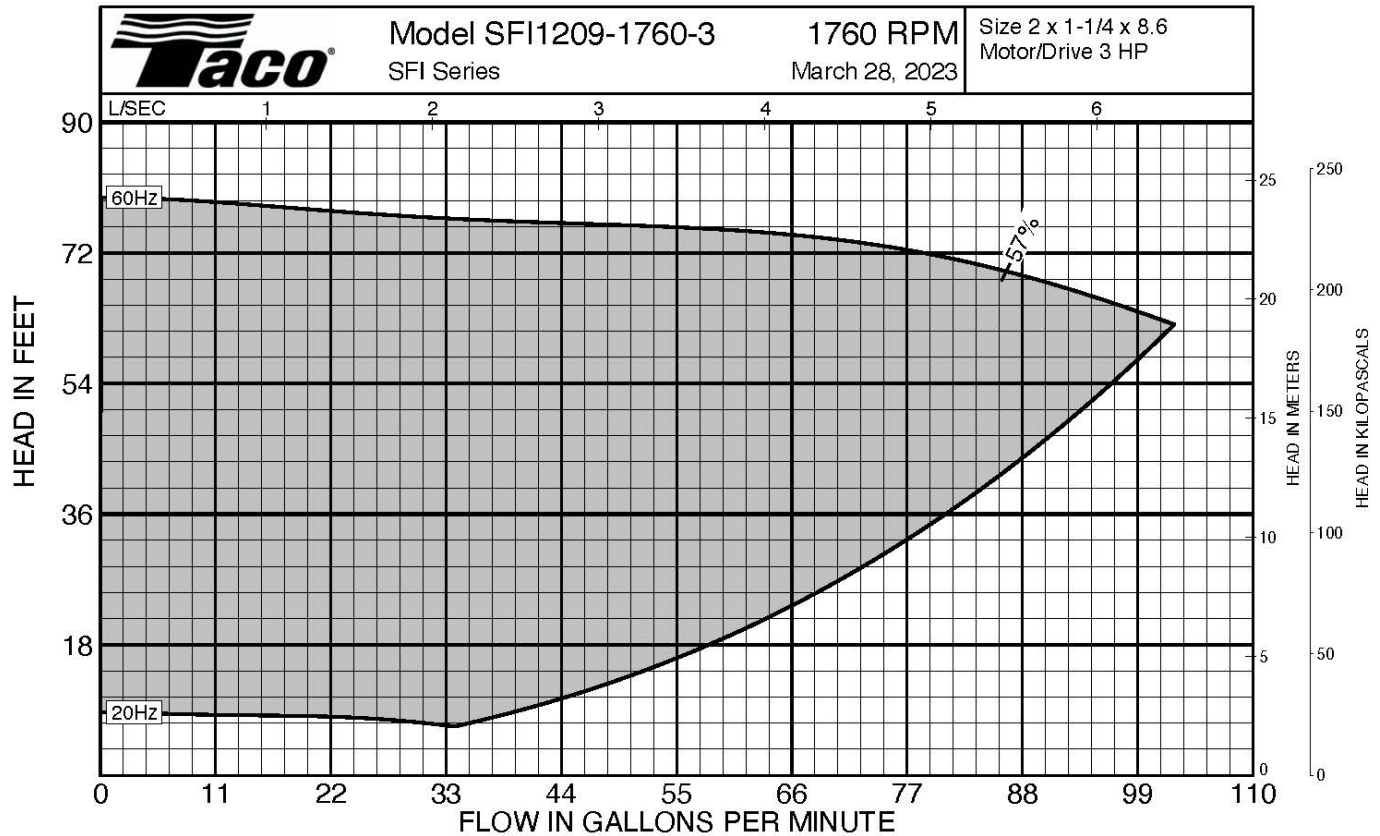
OPERATING SPECIFICATIONS

	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.



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	Integated 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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