SFI Series Pump - NEMA 12 | Submittal Data

Submittal No: 301-S043 | **Model:** SFI2506D | **RPM:** 3500 | **HP:** 7.5HP | TEFC | **Effective:** January 27, 2020 | **Supersedes:** NEW

JOB: _____ **REPRESENTATIVE:** _____

ENGINEER: _____ **CONTRACTOR:** _____

PRODUCT DATA

ITEM NO. _____ **DOE BASIC MODEL NO.** SFI2506D-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** 7.5 **PHASE** _____

NSF 61 CERTIFIED ☐ YES ☐ NO

OPERATING SPECIFICATIONS

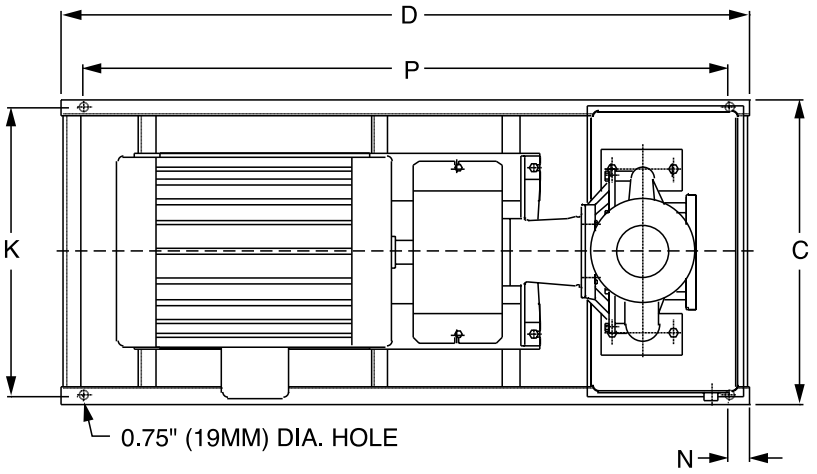
	FLANGE	PRESSURE	TEMPERATURE
STANDARD	ANSI Class 125	175 PSIG* (1210 KPA)	250°F (120°C)
OPTIONAL	ANSI Class 250	300 PSIG** (2070 KPA)	250°F (120°C)

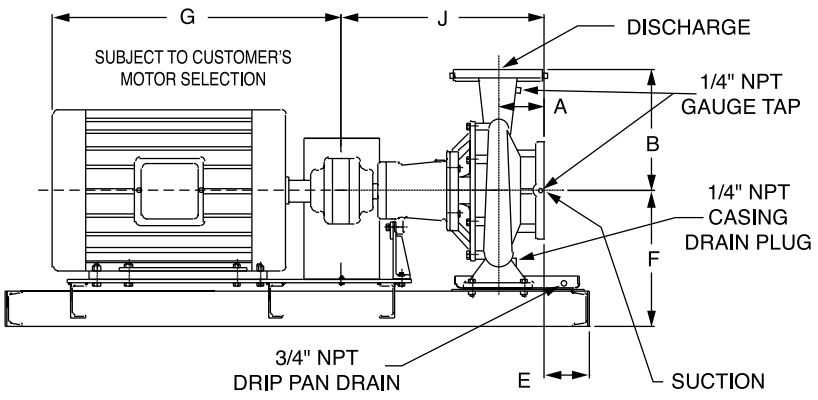
Motors: All NEMA Standard (T Frame)
* In accordance with ANSI Standard B16.1 Class 125
** In accordance with ANSI Standard B16.1 Class 250

DIMENSIONS

Model No. | 2506D
Flange Size (Suction x Discharge) | 3 x 2 ½ (76 x 64)

HORSEPOWER		7.5
TEFC	**MOTOR FRAME**	213T
	G MAX	20.65 (524)
	MAXIMUM ASSEMBLY WEIGHT LBS. (KG)	467 (212)
A		ANSI Class 125: 3.74 (95)
		ANSI Class 250: 4.11 (104)
B		ANSI Class 125: 8.25 (210)
		ANSI Class 250: 8.56 (217)
C		16.18 (411)
D		39.0 (991)
E		ANSI Class 125: 0.93 (24)
		ANSI Class 250: 0.56 (14)
F		10.49 (266)
J		ANSI Class 125: 16.98 (431)
		ANSI Class 250: 17.35 (441)
K		14.67 (373)
N		2.00 (51)
P		35.0 (889)





(Dimensions are for NEMA TEFC)
50 Cycle Performance Curves attached when applicable

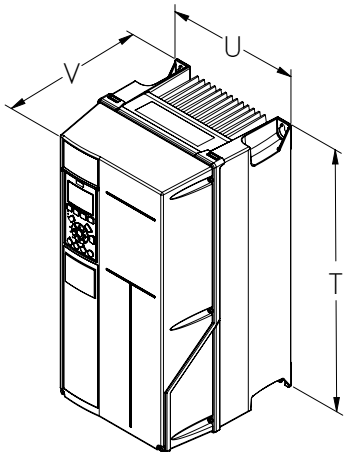
English dimensions are in inches. Metric dimensions are in millimeters.
Metric data is presented in ( ).
Do not use for construction purposes unless certified.

MATERIALS OF CONSTRUCTION			CASING	COVER	IMPELLER	WEAR RING	SHAFT	SHAFT SLEEVE	MECHANICAL SEAL	SEAL FLUSH LINE ASSEMBLY
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	Carbon Steel	Bronze ASTM B584-98A C92200	Ceramic/EPT	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	Carbon Steel	Bronze ASTM B584-98A C92200	Ceramic/EPT	N/A
OPTIONAL		125# OR 250#	N/A	N/A	Stainless Steel ASTM A351/A 351M-08	Bronze ASTM B584-98A C92200	N/A	Stainless Steel TYPE 303 ASTM A276	Tyngsten Carbide /EPT or Silicon-Carbide/EPT	Copper & Brass C3600
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	Carbon Steel	Bronze ASTM B584-98A C92200	Ceramic/EPT	Copper & Brass C3600
		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	Carbon Steel	Bronze ASTM B584-98A C92200	Ceramic/EPT	Copper & Brass C3600
OPTIONAL		125# OR 250#	N/A	N/A	N/A	Bronze ASTM B584-98A C92200	N/A	N/A	N/A	N/A

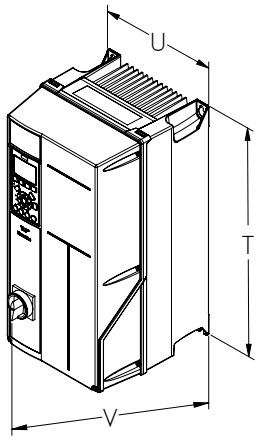
N/A - Not Available

DRIVE DATA

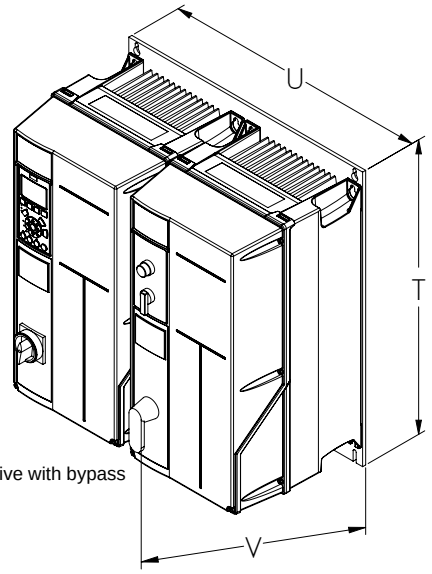
PROTOCOLS (Standard)	BACnet, Modbus RTU, N2 Metasys, FLN Apogee, FC Protocol
PROTOCOLS (Optional)	☐ LonWorks® ☐ DeviceNet ☐ Profibus
ENCLOSURE	NEMA Type 12 / IP55
I/O (Standard)	6 Digital Inputs / 2 Digital Outputs 1 Analog Current Output / 2 Analog Inputs 2 Pulse Inputs 2 Form C Relays
ADDITIONAL CONTROL 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)
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



Basic Drive



Drive with optional disconnect

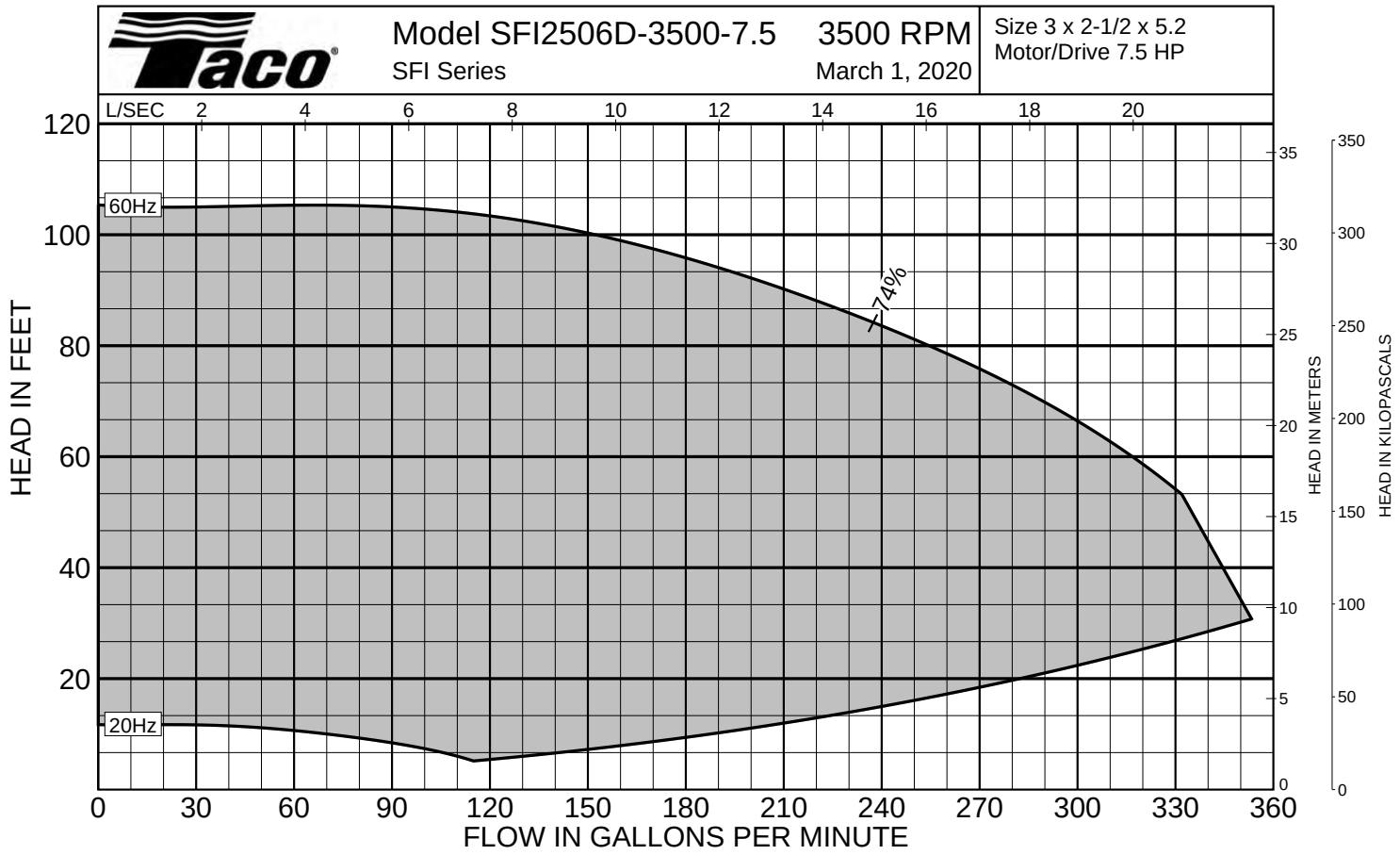


Drive with bypass

DRIVE DIMENSIONS

HP RANGE			FRAME	DIMENSIONS - IN (MM)		
208V	460V	575V		T	U	V
1.5 (1.1) - 5 (4)	1.5 (1.1) - 10 (7.5)		WITHOUT BYPASS (A5)	16.5 (420)	9.5 (242)	9.6 (243)
			WITH BYPASS (A5)	18.9 (478)	19.3 (487)	10.3 (262)
7.5 (5.5) - 15 (11)	15 (11) - 25 (18)		WITHOUT BYPASS (B1)	18.9 (480)	9.5 (242)	12.1 (308)
			WITH BYPASS (B1)	21.5 (546)	19.1 (485)	12.9 (327)

COMMENTS



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

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