Submittal Data Information
SCI Series Pumps

301-2793-F

EFFECTIVE: May 05, 2023 SUPERSEDES: January 27, 2020 MODEL SCI2510C-1760-10

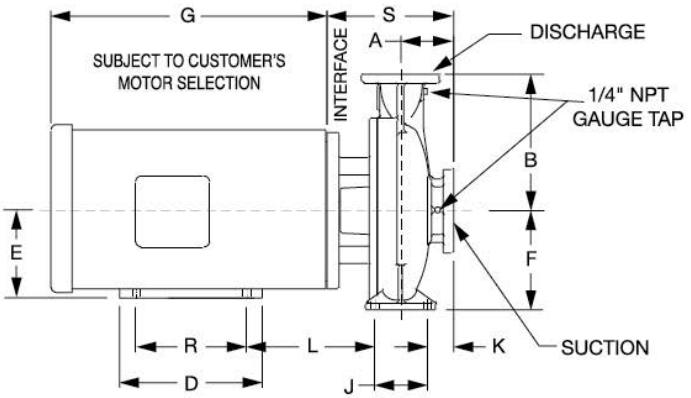
JOB: _____ ENGINEER: _____

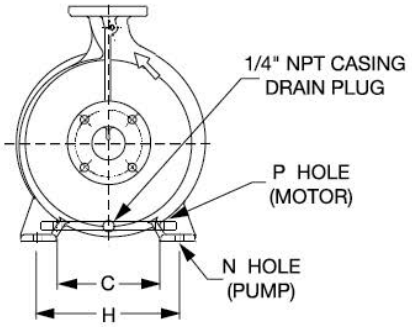
CONTRACTOR: _____ REP: _____

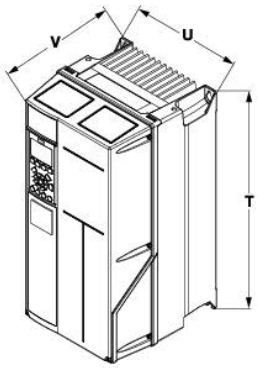
ITEM NO.	MODEL NO.	IMPELLER DIA.	G.P.M.	HEAD/FT	H.P.	ELEC. CHAR.

Configuration	DOE Basic Model Number	PEI Value		Energy Rating
Pump + Motor + Drive	SCI2510C-A-4P-PD	PEI_{vl}	0.47	53

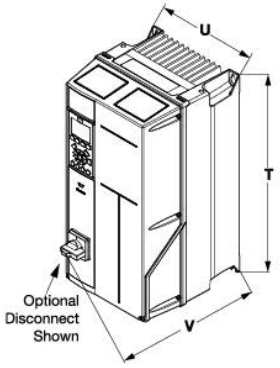
WEIGHT _____ PUMP/MOTOR _____



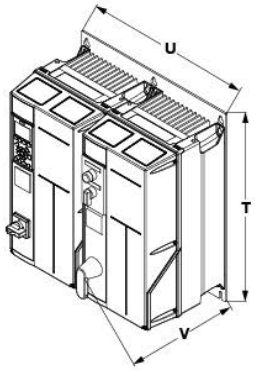




Basic drive



Drive with optional disconnect



Drive with bypass

HP Range			Frame	Dimensions - Inches (mm)		
208V	460V	575V		T	U	V
1.5 (1.1) - 5 (4.0)	1.5 (1.1) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	Without bypass A5	16.5 (420)	9.5 (242)	9.6 (243)
1.5 (1.1) - 5 (4.0)	1.5 (1.1) - 10 (7.5)	1.5 (1.1) - 10 (7.5)	With bypass A5	18.9 (478)	19.2 (487)	10.3 (262)
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	21.5 (546)	19.1 (485)	12.9 (327)

DIMENSIONS for NEMA TEFC Type 12 / IP55

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 (Motor)	D	E	F	G	H	J	K ANSI Class 125	L	N (Pump)	P	R	S ANSI Class 125
2510C-10 3 x 2 1/2 (76 x 64)	215JM	10	4.72 (120)	9.75 (248)	8.5 (216)	8.00 (203)	5.25 (133)	7.87 (200)	13.94 (354)	11.02 (280)	4.72 (120)	2.36 (60)	6.65 (169)	0.56 (14)	0.41 (10)	7.00 (178)	9.23 (234)

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
	125# Flange	250# Flange	125# or 250#	125# Flange	250# Flange	125# or 250#
Casing	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A
Cover	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Ductile Iron ASTM A536-84 Grade 65-45-12	N/A
Impeller	Bronze ASTM B584-98A C87500	Bronze ASTM B584-98A C87500	N/A	Cast Iron ASTM A48/A48M-03 Class 30A	Cast Iron ASTM A48/A48M-03 Class 30A	N/A
Wear Ring	N/A	N/A	Bronze ASTM B584-98A C92200	N/A	N/A	N/A
Shaft	Carbon Steel AISI 1045	Carbon Steel AISI 1045	Stainless Steel TYPE 416"T" or 410"T" ASTM A58	Carbon Steel AISI 1045	Carbon Steel AISI 1045	Stainless Steel TYPE 416"T" or 410"T" ASTM A58
Shaft Sleeve	Bronze ASTM B584-98A C92200	Bronze ASTM B584-98A C92200	Stainless Steel TYPE 303 ASTM A276	Stainless Steel TYPE 303 ASTM A276	Stainless Steel TYPE 303 ASTM A276	N/A
Mech. Seal	Ceramic/EPT	Ceramic/EPT	C/F	Ceramic/EPT	Ceramic/EPT	C/F
Seal Flush Line	N/A	N/A	Copper	N/A	N/A	Stainless Steel

CF - Consult Factory

NA - Not Available

DIMENSIONS (250 PSI)

Model No. Flange Size (Suction x Discharge)	HP 1760 RPM	A ANSI Class 250	B ANSI Class 250	K ANSI Class 250	S ANSI Class 250
2510C-10 3 x 2 1/2 (76 x 64)	10	5.09 (129)	10.06 (256)	2.73 (69)	9.60 (244)

MAXIMUM ASSEMBLY WEIGHT

Motor Frame	Weight Lbs (Kg)
215JM	311 (141)

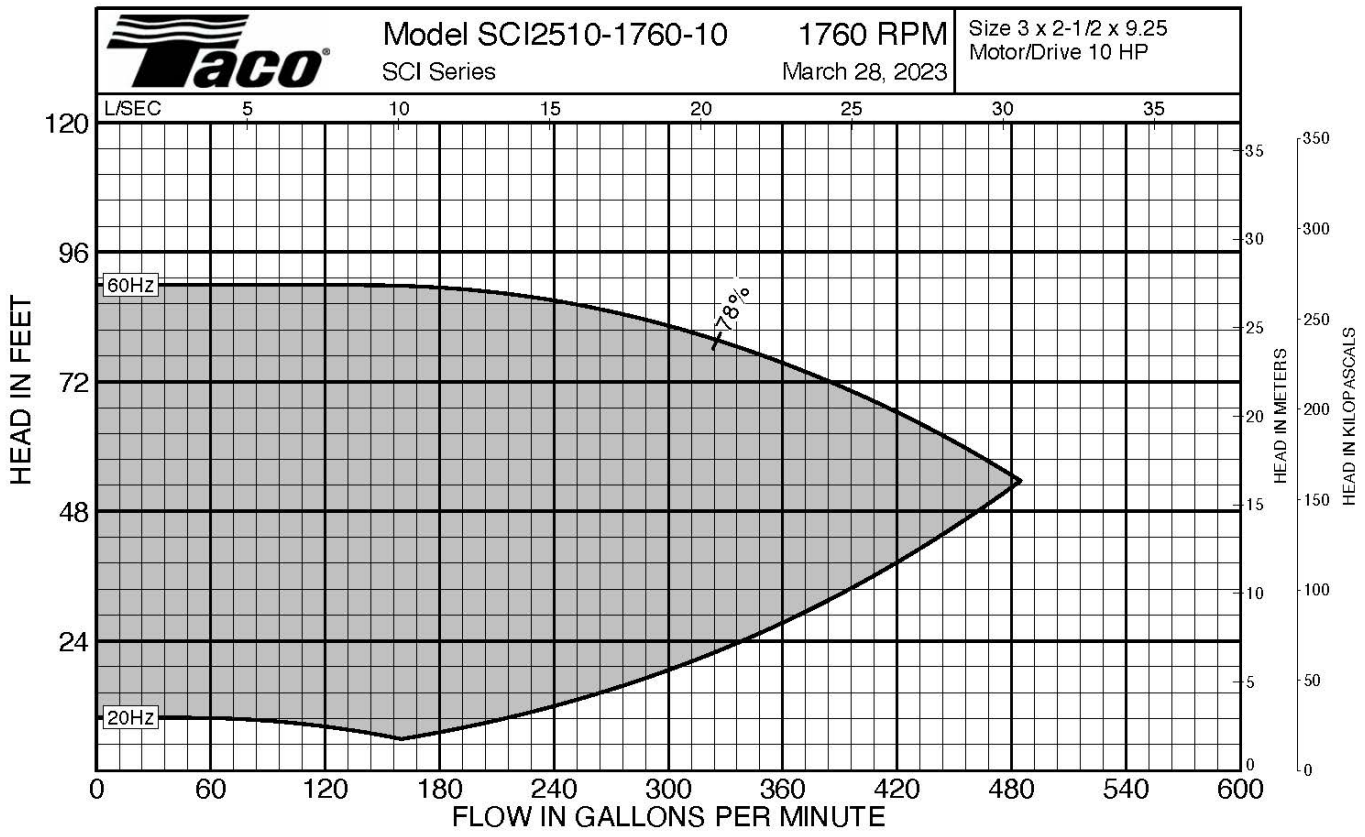
OPERATING SPECIFICATIONS

	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

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

Taco Comfort Solutions® A Taco Family Company
Taco, Inc., 1160 Cranston Street, Cranston, RI 02920 | Tel: (401) 942-8000
Taco (Canada), Ltd., 8450 Lawson Road, Suite #3, Milton, Ontario L9T 0J8 | Tel: (905) 564-9422
Visit our web site: www.TacoComfort.com | Printed in USA |