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Patent No.
6,364,620



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Tel: (502) 778-2731 • 1 (800) 928-PUMP

SECTION: Z5.30.200
ZM2196
0525
Supersedes
0624

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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



X61 HD HAZARDOUS LOCATION SERIES

TECHNICAL DATA

CLASS I, DIVISION 1, GROUPS C & D
CLASS I, ZONE 1, GROUPS IIA & IIB
1 - 7.5 HP / 1750 RPM



MODEL NUMBER:	☐ X6120	☐ X6121	☐ X6122	☐ X6123	☐ X6124	☐ X6125
PUMP NAME PLATE HORSEPOWER: BHP	1.0	1.5	2.0	3.0	5.0	7.5
SERVICE FACTOR:	1.2	1.2	1.2	1.2	1.2	1.0
NEC LOCKED ROTOR CODE:	M	J	K	F	E	C
MAXIMUM KW INPUT:	1.4	1.9	2.4	3.5	5.5	6.9
3 PHASE IMPELLER DIA.: in (mm) STANDARD	4-7/8" (124 mm)	5-3/8" (137 mm)	5-3/4" (146 mm)	6-3/8" (162 mm)	7" (178 mm)	7-1/2" (191 mm)
DISCHARGE SIZE:	☐ 3" NPT Vertical ☐ 3" Horizontal Flange ☐ 4" Horizontal Flange					
SOLID SIZE: in (mm)	2-1/2"(64 mm) OPTIONAL ☐ 3"(76 mm)			TANDEM SEALS:		Standard
IMPELLER TYPE:	Ductile iron Semi-open OPTIONAL ☐ Ductile iron Vortex			MOTOR DESIGN LETTER:		NEMA B
FLANGE:	ANSI B16.1			POWER & SENSOR CORD LENGTH: ft(m)		25' (7.6 m)
PUMP NET WEIGHT: lbs (kg)	295 lbs. (134kg)			OPTIONAL CORD LENGTH:		☐ 50' (15.2 m)
MOTOR SHAFT	416 SS			POWER/SENSOR CORD:		#12-4 SOOW* / #18-5 SOOW**
RPM:	1750			STATOR & LEAD WIRES INSULATION:		Class F
MOTOR TYPE:	STANDARD SUBMERSIBLE			MAXIMUM STATOR TEMPERATURE:		311 °F (155 °C)
	☐ **** INVERTER DUTY SUBMERSIBLE					
SHAFT SEAL CONSTRUCTION:	STANDARD		UPPER - CARBON CERAMIC LOWER - SILICON CARBIDE/SILICON CARBIDE			
	OPTIONAL UPPER		☐ SILICON CARBIDE/SILICON CARBIDE ☐ SILICON CARBIDE/SILICON CARBIDE VITON			
	OPTIONAL LOWER		☐ SILICON CARBIDE/SILICON CARBIDE VITON			
O-RING ELASTOMERS	STANDARD		BUNA-N			
	OPTIONAL		☐ VITON			
SENSING DEVICES**	MOTOR THERMAL SHUTOFF		THERMAL SENSORS			
	MOISTURE DETECTION		MOISTURE SENSING PROBES			
IMPELLER TRIM:	OPTIONAL		☐ DESIGN POINT: ____ GPM @ ____' TDH, IMPELLER DIA. ____"			
RECOMMENDED FLUID LEVEL FOR CONTINUOUS OPERATION: in (m)			24" (0.6 m)(FOR CONTINUOUS DUTY, REFER TO WARRANTY)			
MAXIMUM WATER TEMPERATURE FOR CONTINUOUS OPERATION:			104 °F (40 °C)			

* Models with a FLA greater than 20 amps use #8-4 gauge power cord.

** Requires a circuit in control panel to function.

**** 30-60Hz Max, NEMA MG-1, Part 30, cCSAus certified with type VPWM inverter, 1-7.5 HP 230 and 460 Volt, 3 phase and 3-5 HP 575 Volt 3 phase models only

MODEL	BHP	SERVICE FACTOR	☐ 230V / 1 PH		☐ 200V / 3 PH		☐ 230V / 3 PH		☐ 460V / 3 PH		☐ 575V / 3 PH	
			FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
X6120	1	1.2	6.9	48.0	4.8	32.0	4.2	28.0	2.1	14.0	--	--
X6121	1.5	1.2	8.9	48.0	5.9	32.0	5.1	28.0	2.6	14.0	--	--
X6122	2	1.2	14.5	86.0	7.8	46.0	6.8	41.0	3.4	20.5	--	--
X6123	3	1.2	17.0	86.0	11.0	46.0	9.6	41.0	4.8	20.5	3.9	16.2
X6124	5	1.2	28.0	139.0	17.5	64.0	15.2	58.0	7.6	29.0	6.1	23.0
X6125	7.5	1.0	--	--	25.3	83.0	22.0	72.0	11.0	36.0	9.0	23.0

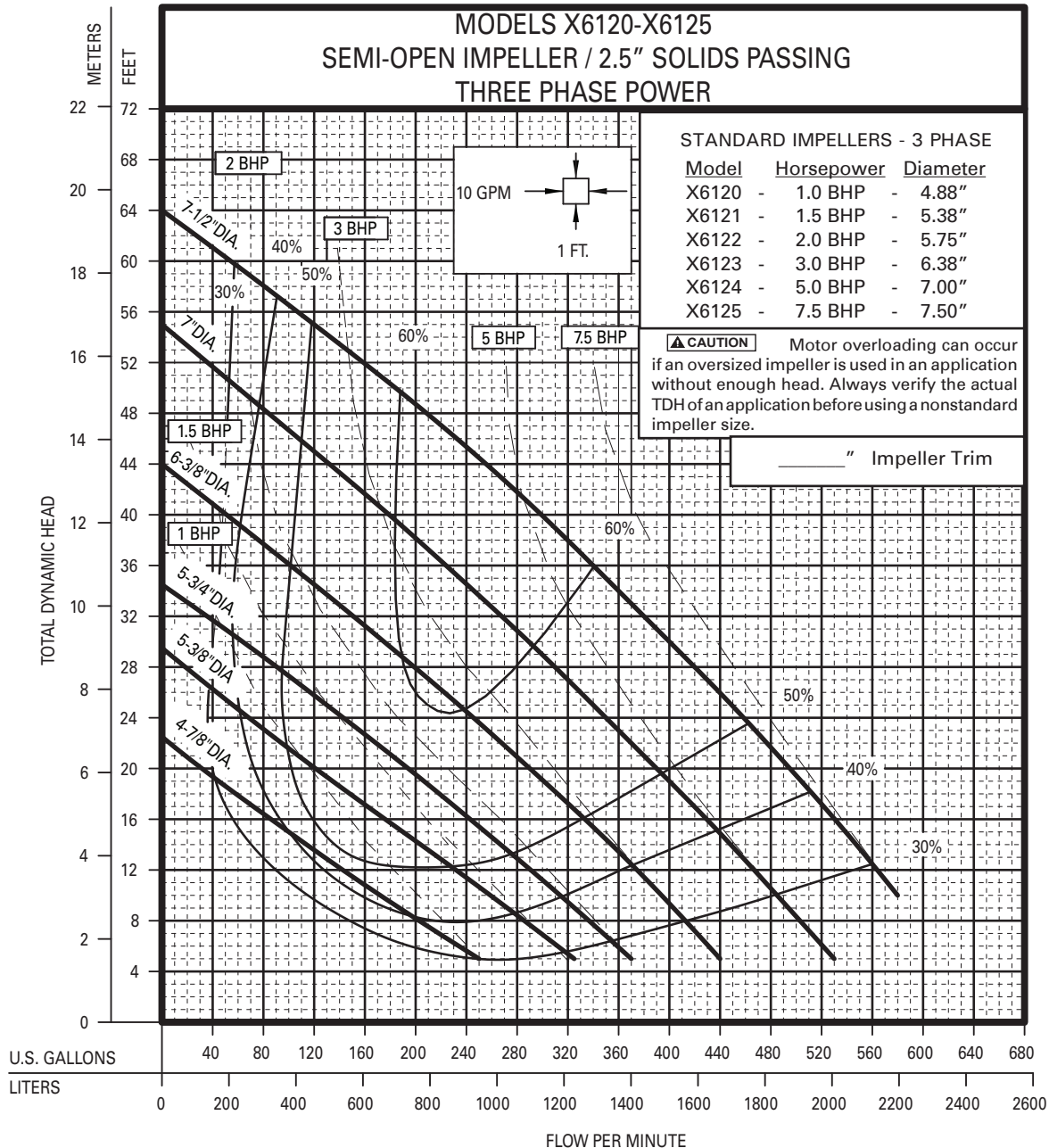
SEMI-OPEN IMPELLER

PERFORMANCE DATA

3 PHASE

3" Vertical Discharge

2-1/2" Solids Passing Capacity



A00499X



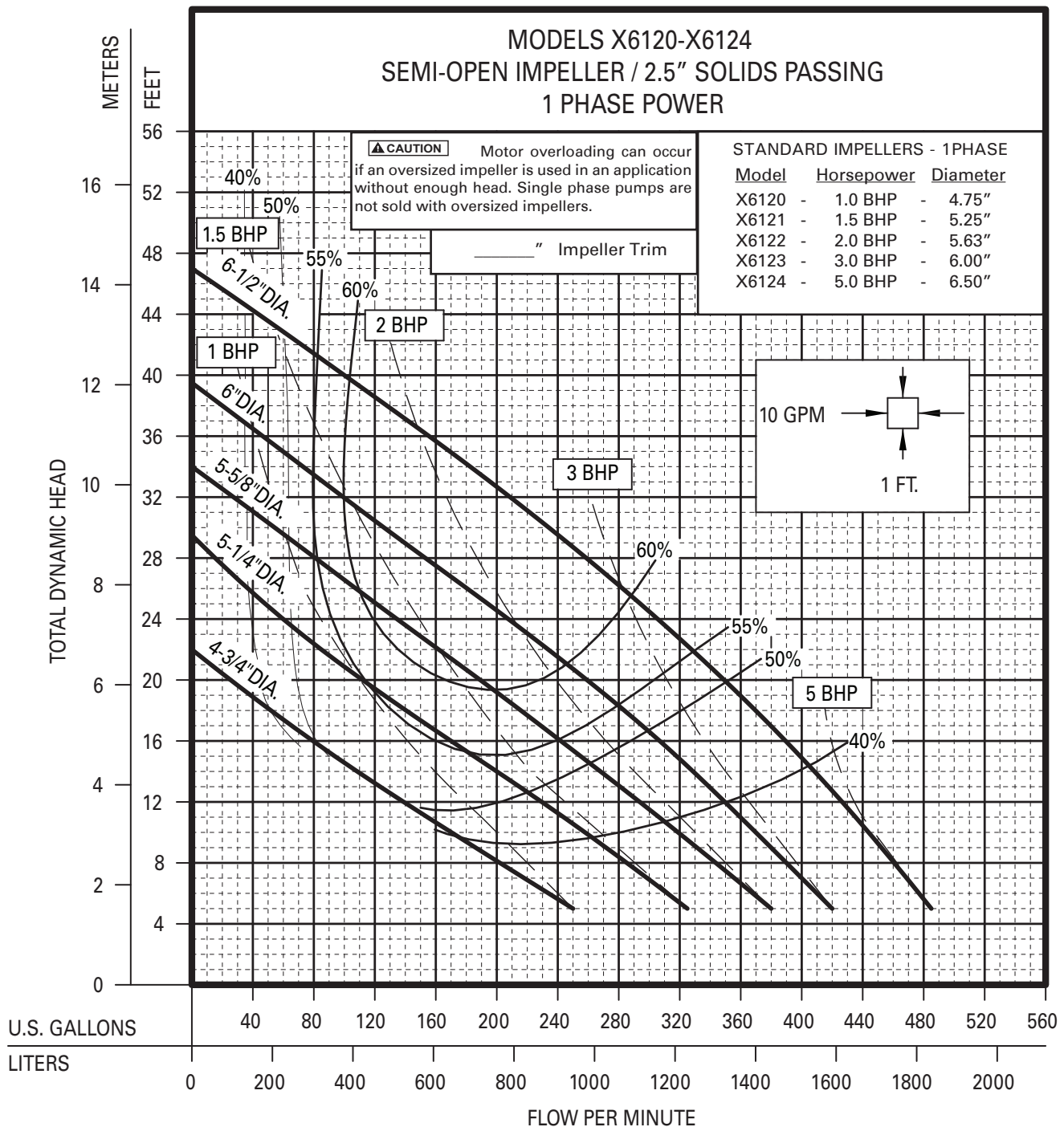
SEMI-OPEN IMPELLER

PERFORMANCE DATA

1 PHASE

3" Vertical Discharge

2-1/2" Solids Passing Capacity



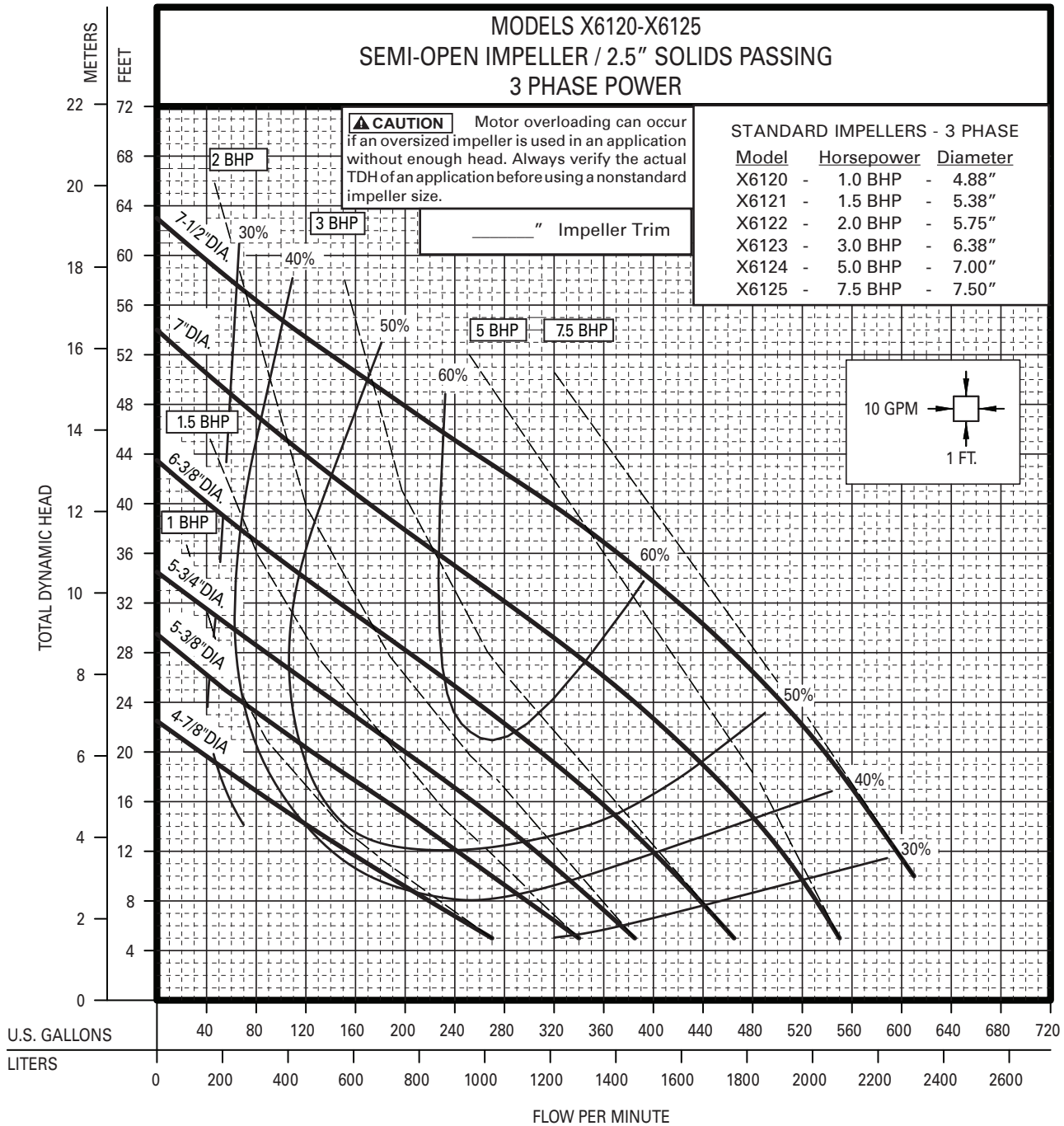
A00672X

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SWPA Data Categories Presented -- Data on this sheet supply design information as the minimum recommended by the Submersible Wastewater Pump Association and is defined in accordance with SWPA's Standardized Definitions for Pump and Motor Characteristics. The accuracy of the data is the responsibility of Zoeller Engineered Products.

SEMI-OPEN IMPELLER PERFORMANCE DATA 3 PHASE

*3" & 4" Horizontal Flanged Discharge
2-1/2" Solids Passing Capacity*



A00500X

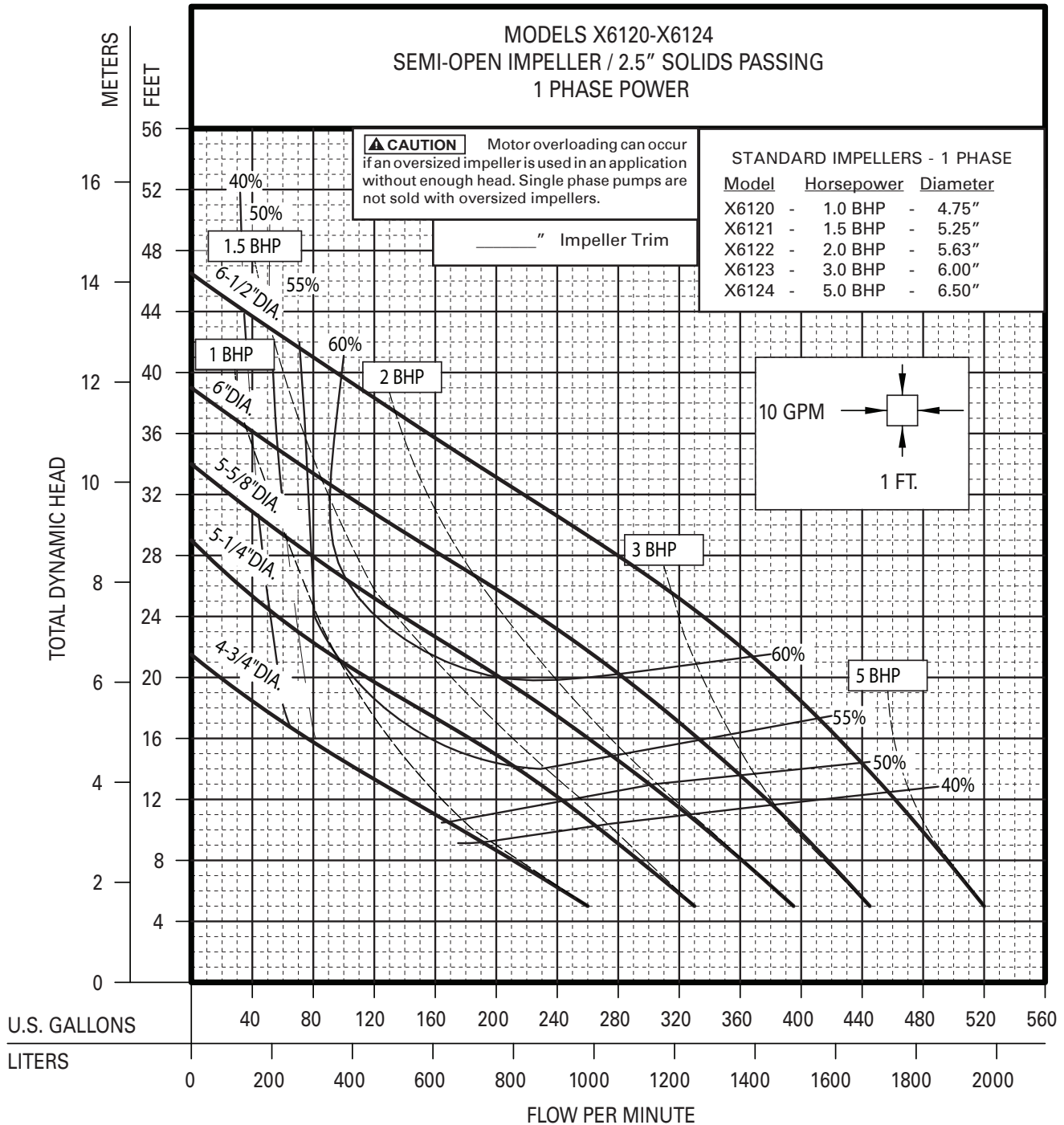


SEMI-OPEN IMPELLER

PERFORMANCE DATA

1 PHASE

3" & 4" Horizontal Flanged Discharge
2-1/2" Solids Passing Capacity



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SEMI-OPEN IMPELLER

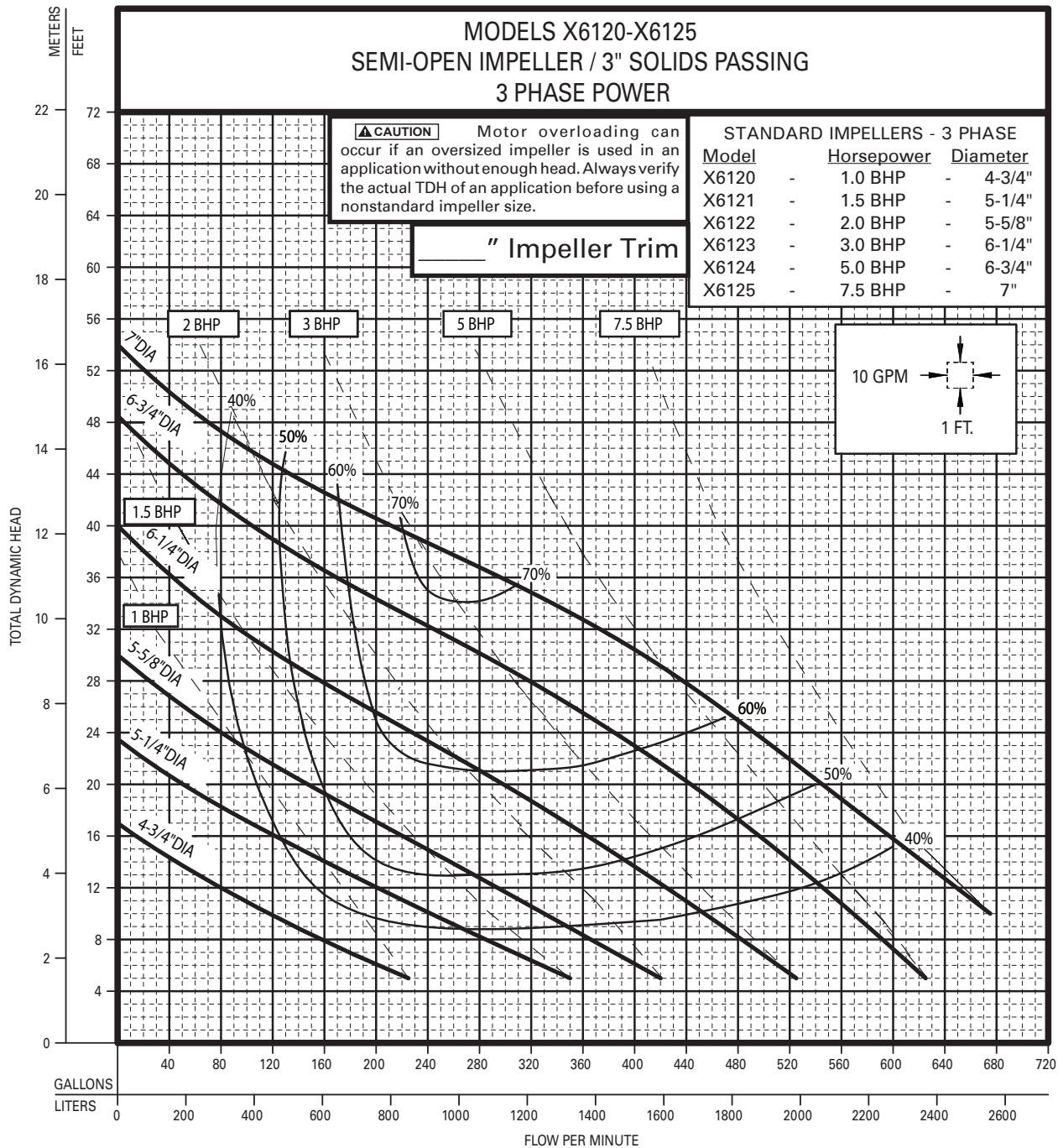
PERFORMANCE DATA

3 PHASE

4" Horizontal Flanged Discharge
3" Solids Passing Capacity



CSA US
Certified to CSA Standard
C22.2 No. 145
Tested to FM Standard
3600 & 3615



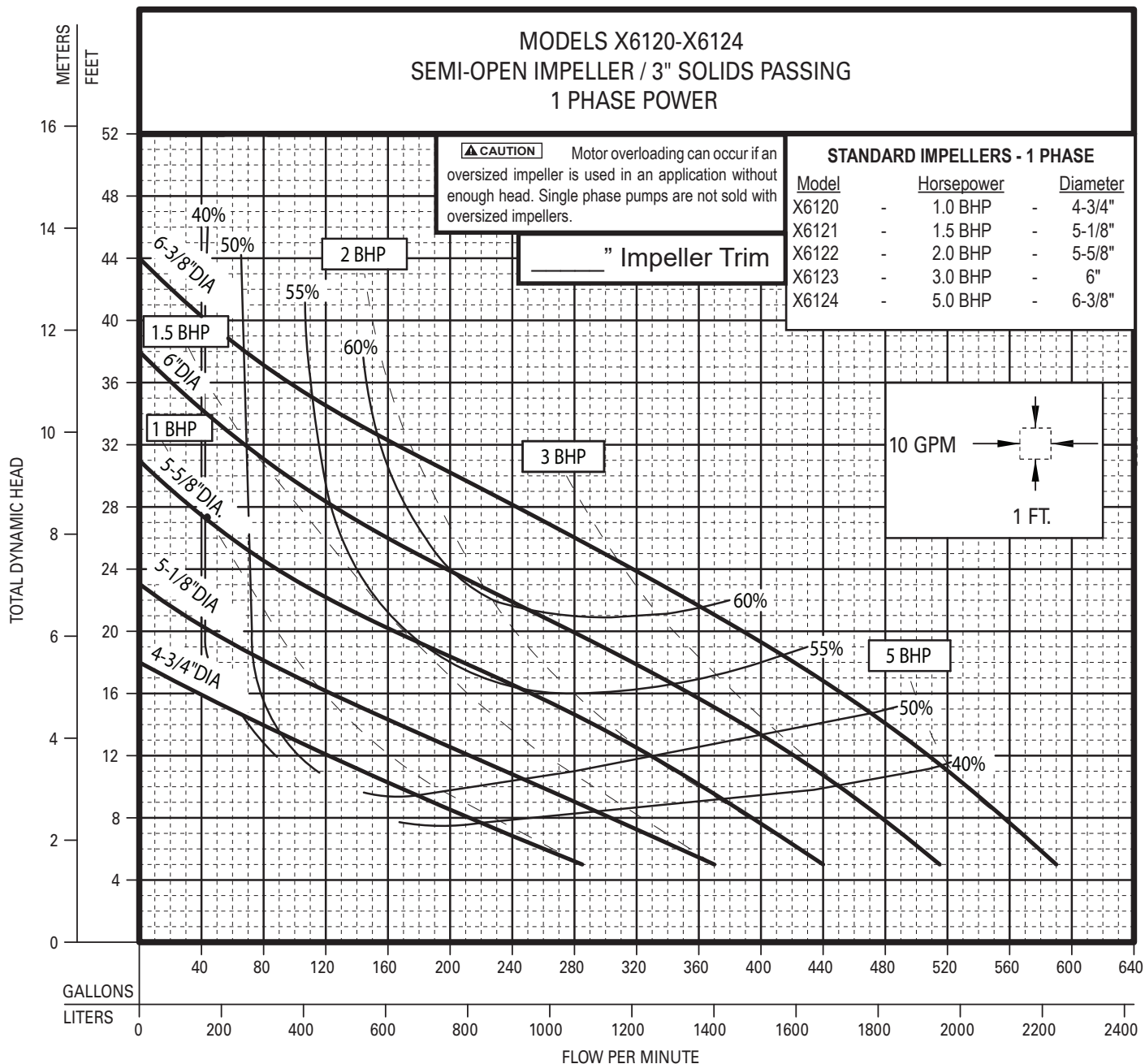
A00520X

SEMI-OPEN IMPELLER

PERFORMANCE DATA

1 PHASE

4" Horizontal Flanged Discharge
3" Solids Passing Capacity



A00670X

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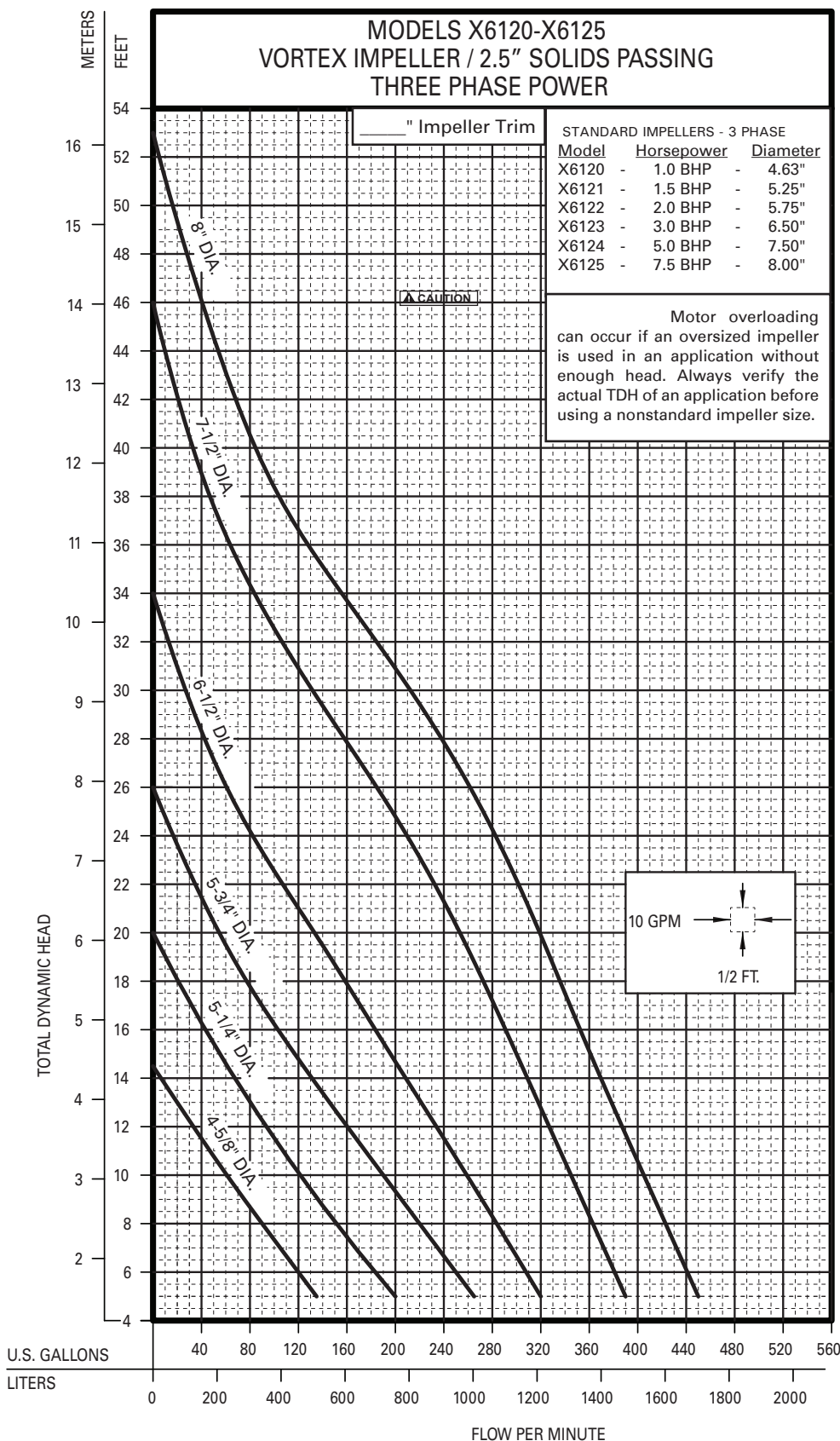
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VORTEX IMPELLER

PERFORMANCE DATA

3 PHASE

3" Vertical, 3" Horizontal & 4" Horizontal Discharge
2-1/2" Solids Passing Capacity



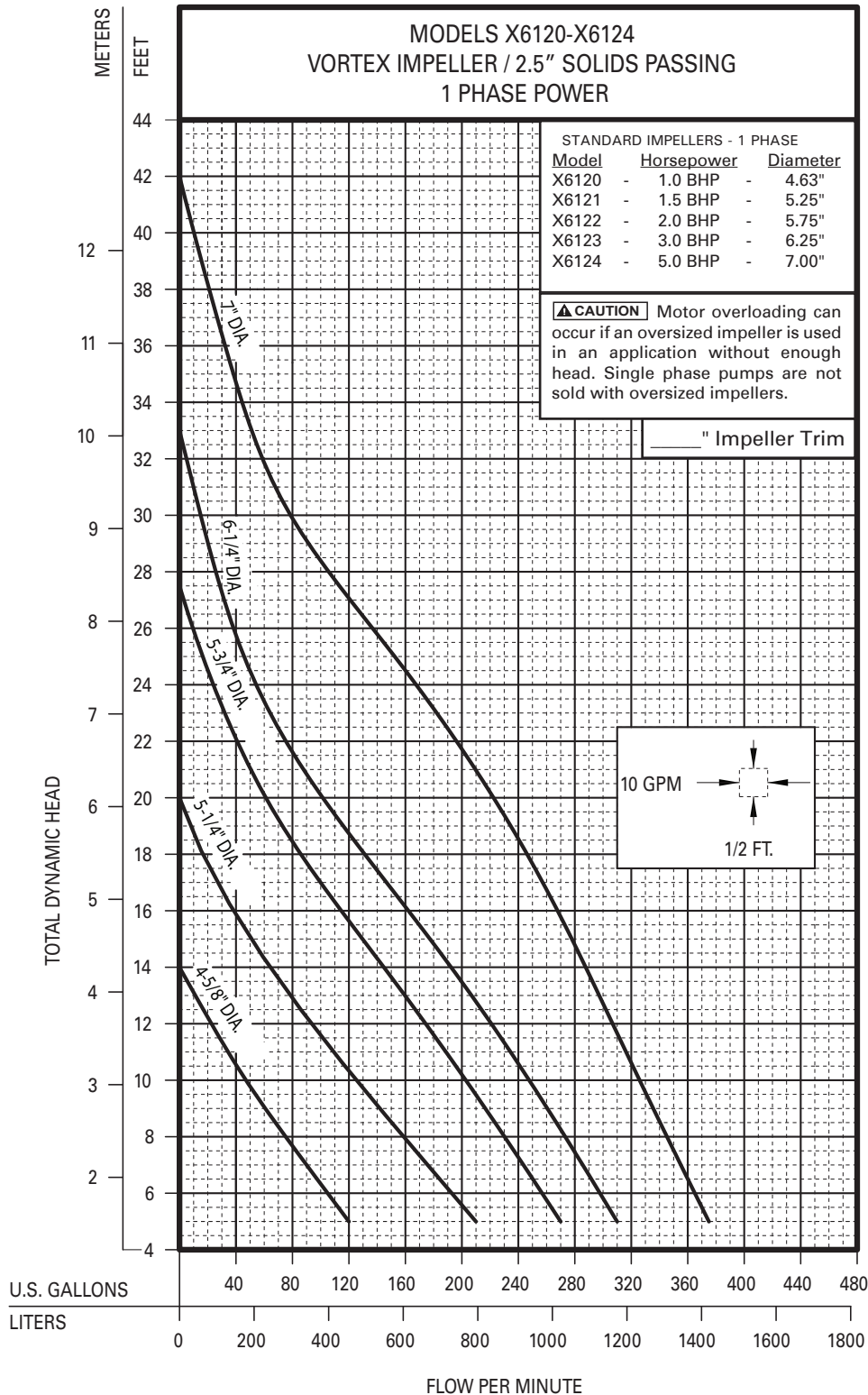
A00667X

VORTEX IMPELLER

PERFORMANCE DATA

1 PHASE

*3" Vertical, 3" Horizontal & 4" Horizontal Discharge
2-1/2" Solids Passing Capacity*



A00665X



VORTEX IMPELLER

PERFORMANCE DATA

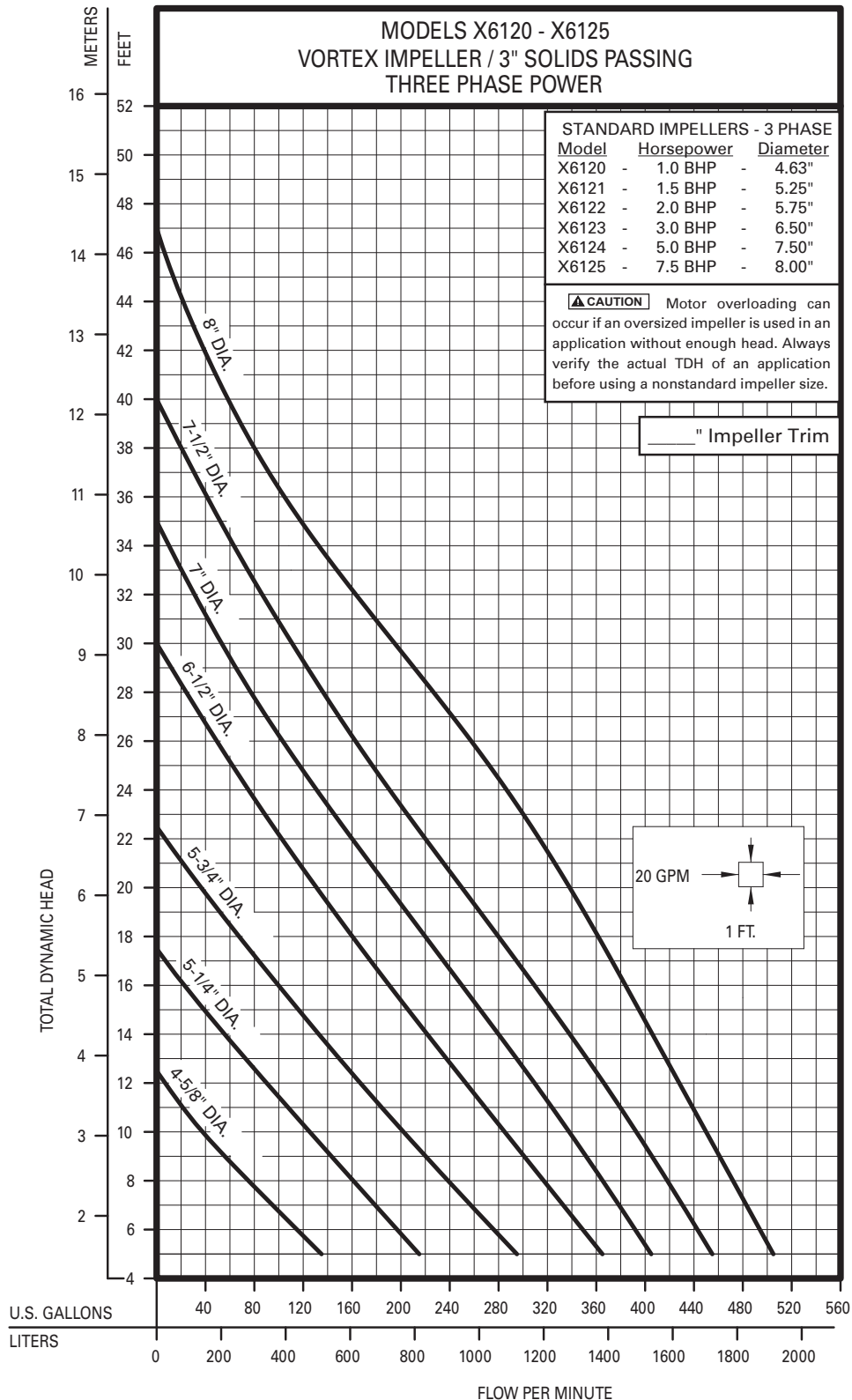
3 Phase

4" Horizontal Flanged Discharge

3" Solids Passing Capacity



CSA US
Certified to CSA Standard
C22.2 No. 145
Tested to FM Standard
3600 & 3615



A00668X

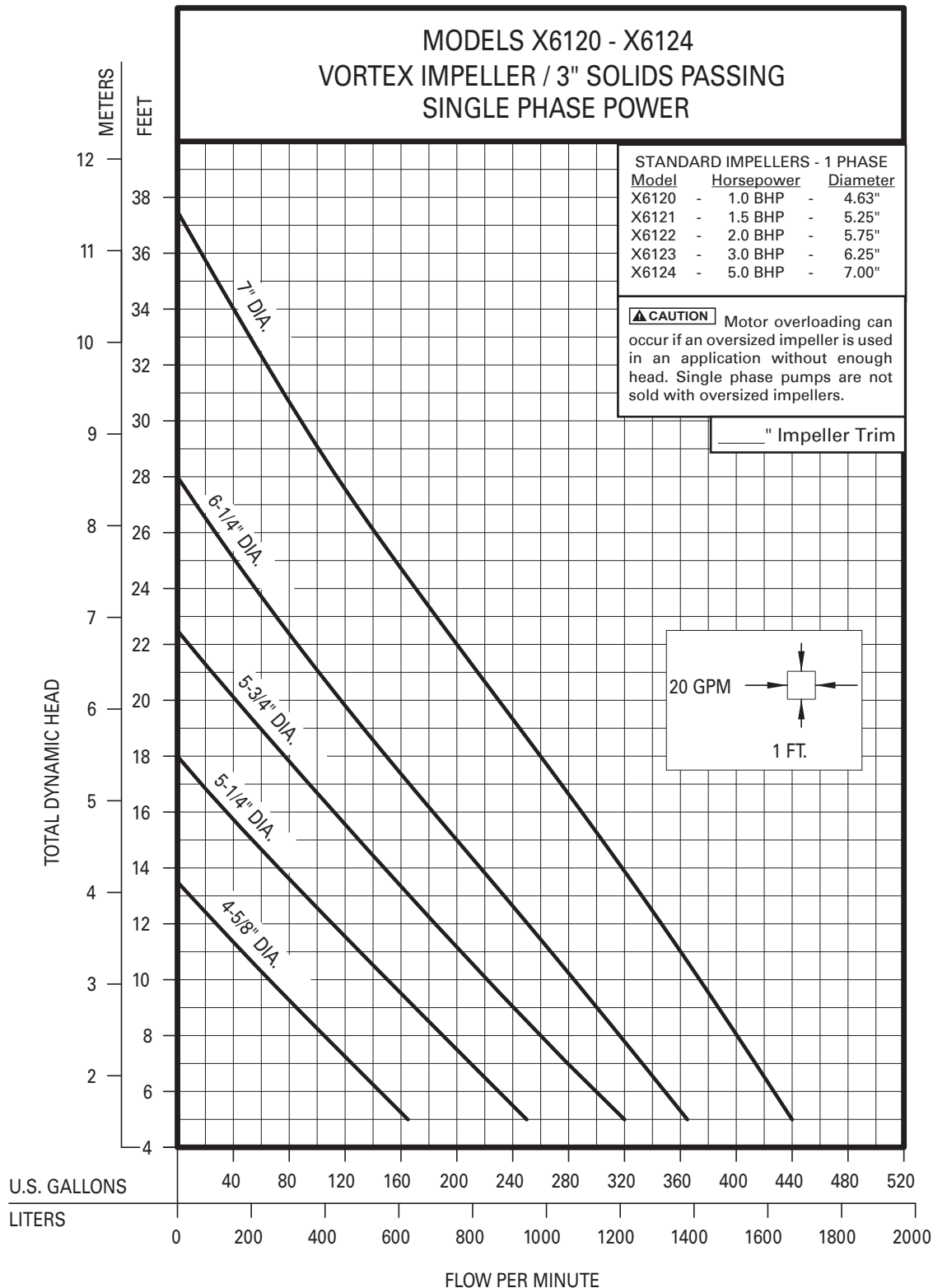
VORTEX IMPELLER

PERFORMANCE DATA

1 Phase

4" Horizontal Flanged Discharge

3" Solids Passing Capacity





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