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Patent No.
6,364,620



SECTION: Z5.30.200

ZM2196

0324

Supersedes

0823

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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: | <input type="checkbox"/> X6120 | <input type="checkbox"/> X6121 | <input type="checkbox"/> X6122 | <input type="checkbox"/> X6123 | <input type="checkbox"/> X6124 | <input type="checkbox"/> 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: | <input type="checkbox"/> 3" NPT Vertical <input type="checkbox"/> 3" Horizontal Flange <input type="checkbox"/> 4" Horizontal Flange | | | | | |

| | | | |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------|
| SOLID SIZE: in (mm) | 2-1/2"(64 mm) OPTIONAL <input type="checkbox"/> 3"(76 mm) | TANDEM SEALS: | Standard |
| IMPELLER TYPE: | Ductile iron Semi-open OPTIONAL <input type="checkbox"/> 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: | <input type="checkbox"/> 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 <input type="checkbox"/> **** INVERTER DUTY SUBMERSIBLE (1-5 BHP, 230/460 VOLT, 3 PHASE ONLY) | MAXIMUM STATOR TEMPERATURE: | 311 °F (155 °C) |

| | | |
|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| SHAFT SEAL CONSTRUCTION: | STANDARD | UPPER - CARBON CERAMIC LOWER - SILICON CARBIDE/SILICON CARBIDE |
| | OPTIONAL UPPER | <input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE <input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE VITON |
| | OPTIONAL LOWER | <input type="checkbox"/> SILICON CARBIDE/SILICON CARBIDE VITON |
| O-RING ELASTOMERS | STANDARD | BUNA-N |
| | OPTIONAL | <input type="checkbox"/> VITON |
| SENSING DEVICES** | MOTOR THERMAL SHUTOFF | THERMAL SENSORS |
| | MOISTURE DETECTION | MOISTURE SENSING PROBES |
| IMPELLER TRIM: | OPTIONAL | <input type="checkbox"/> 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, 230/460 Volt, 3 Ph models only

| MODEL | BHP | SERVICE FACTOR | <input type="checkbox"/> 230V / 1 PH | | <input type="checkbox"/> 200V / 3 PH | | <input type="checkbox"/> 230V / 3 PH | | <input type="checkbox"/> 460V / 3 PH | | <input type="checkbox"/> 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 | 2.7 | 16.2 |
| 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 | 29.0 |



SEMI-OPEN IMPELLER

PERFORMANCE DATA

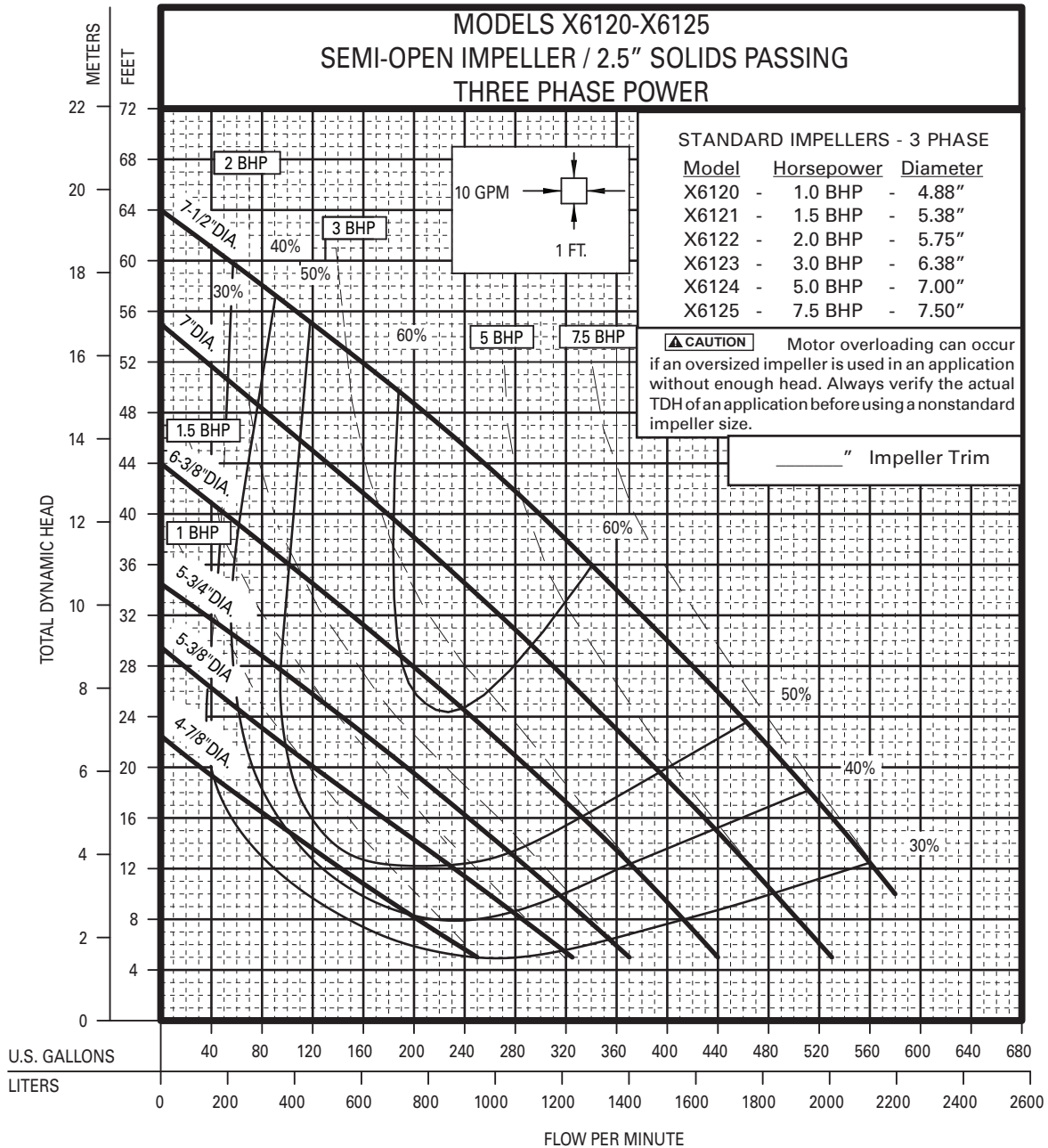
3 PHASE

3" Vertical Discharge

2-1/2" Solids Passing Capacity



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



A00499X



SEMI-OPEN IMPELLER

PERFORMANCE DATA

1 PHASE

3" Vertical Discharge

2-1/2" Solids Passing Capacity



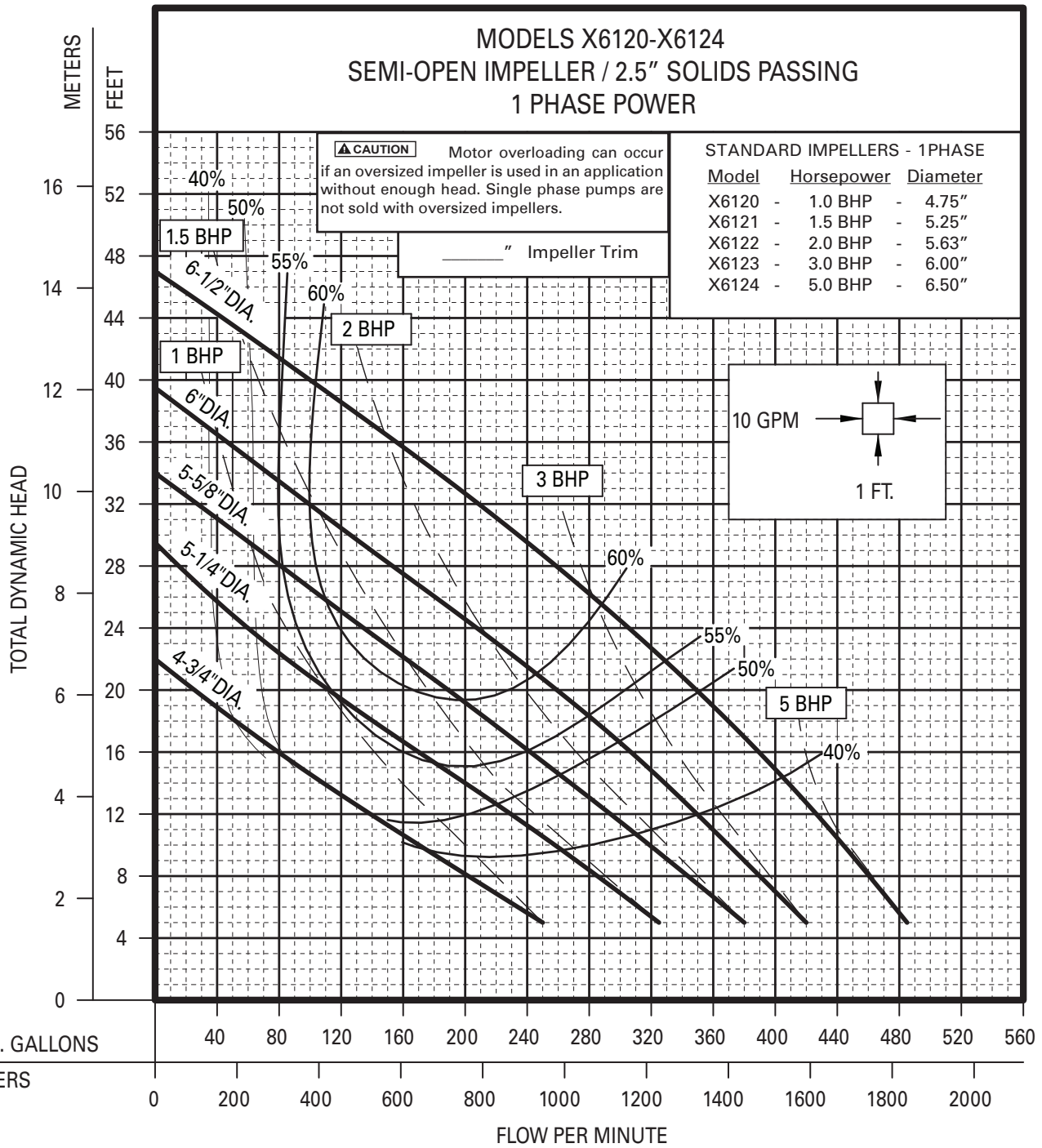
C US

 Certified to CSA Standard

 C22.2 No. 145

 Tested to FM Standard

 3600 & 3615

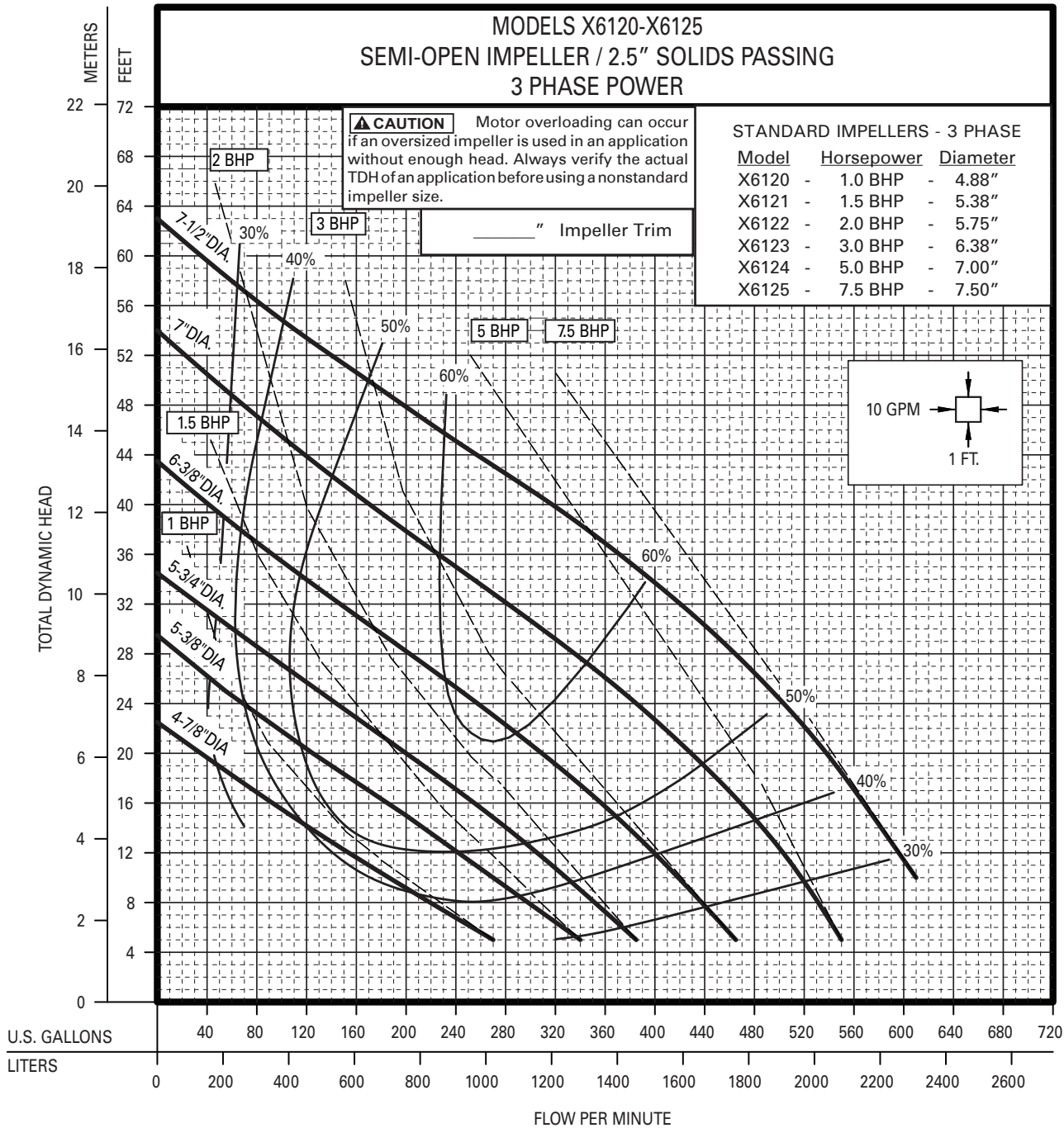


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SWPA Data Categories Presented -- Data on this sheet supply design information as the minimum recommended by the Submersible Wastewater Pump Association and is defined in accordance with SWPA's Standardized Definitions for Pump and Motor Characteristics.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

SEMI-OPEN IMPELLER PERFORMANCE DATA 3 PHASE

*3" & 4" Horizontal Flanged Discharge
2-1/12" Solids Passing Capacity*





SEMI-OPEN IMPELLER

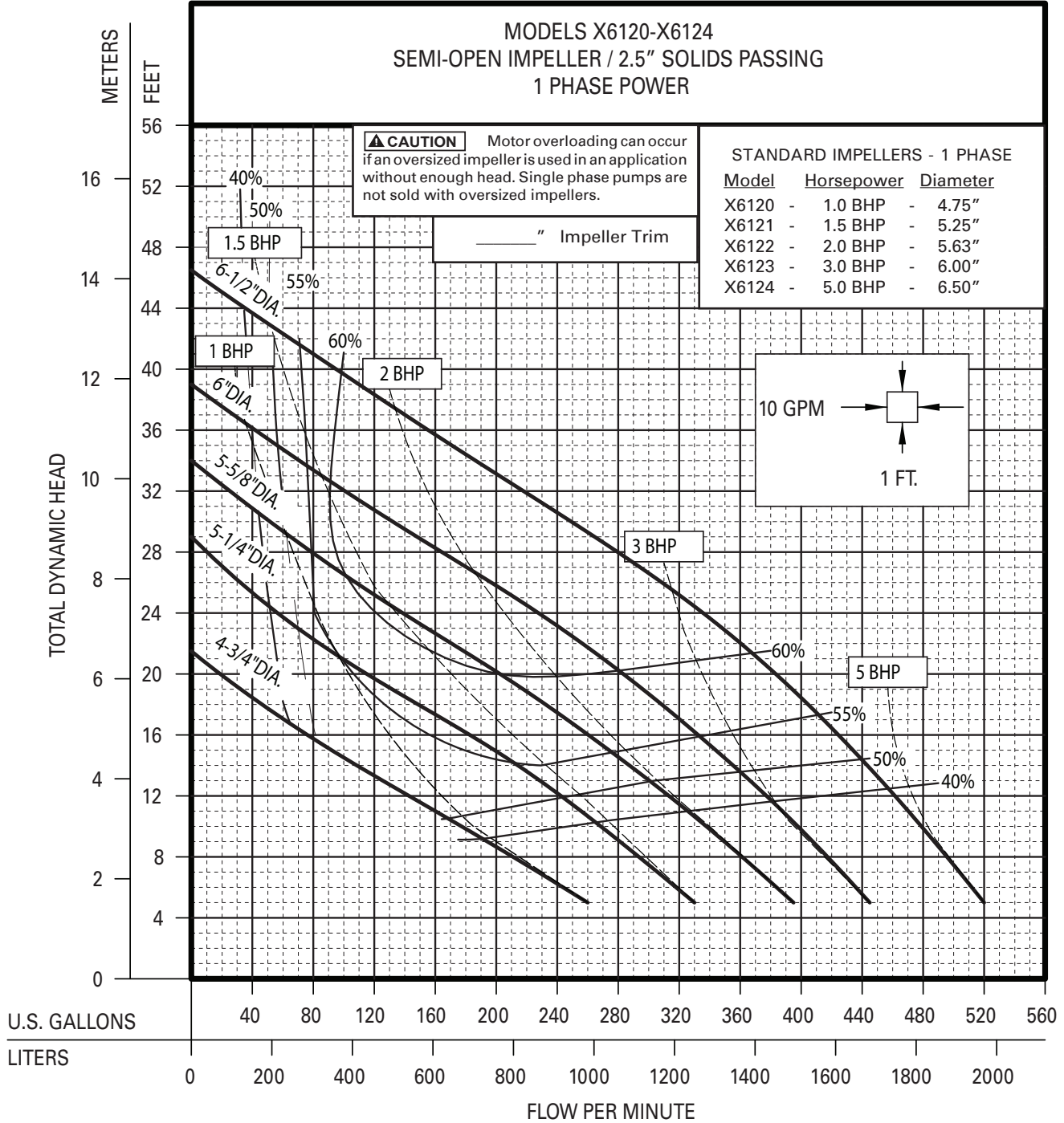
PERFORMANCE DATA

1 PHASE

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



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SEMI-OPEN IMPELLER

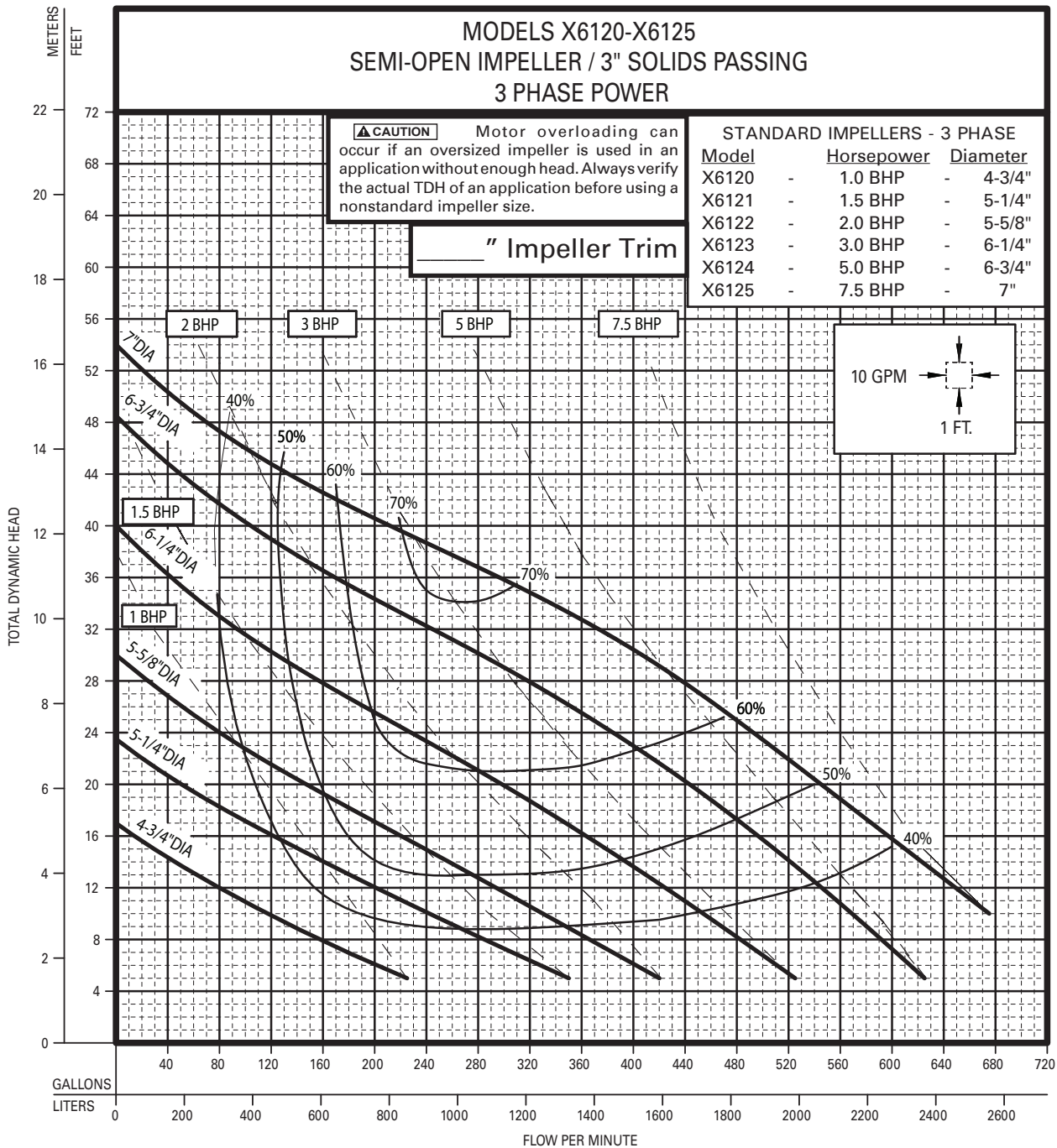
PERFORMANCE DATA

3 PHASE

4" Horizontal Flanged Discharge
3" Solids Passing Capacity



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



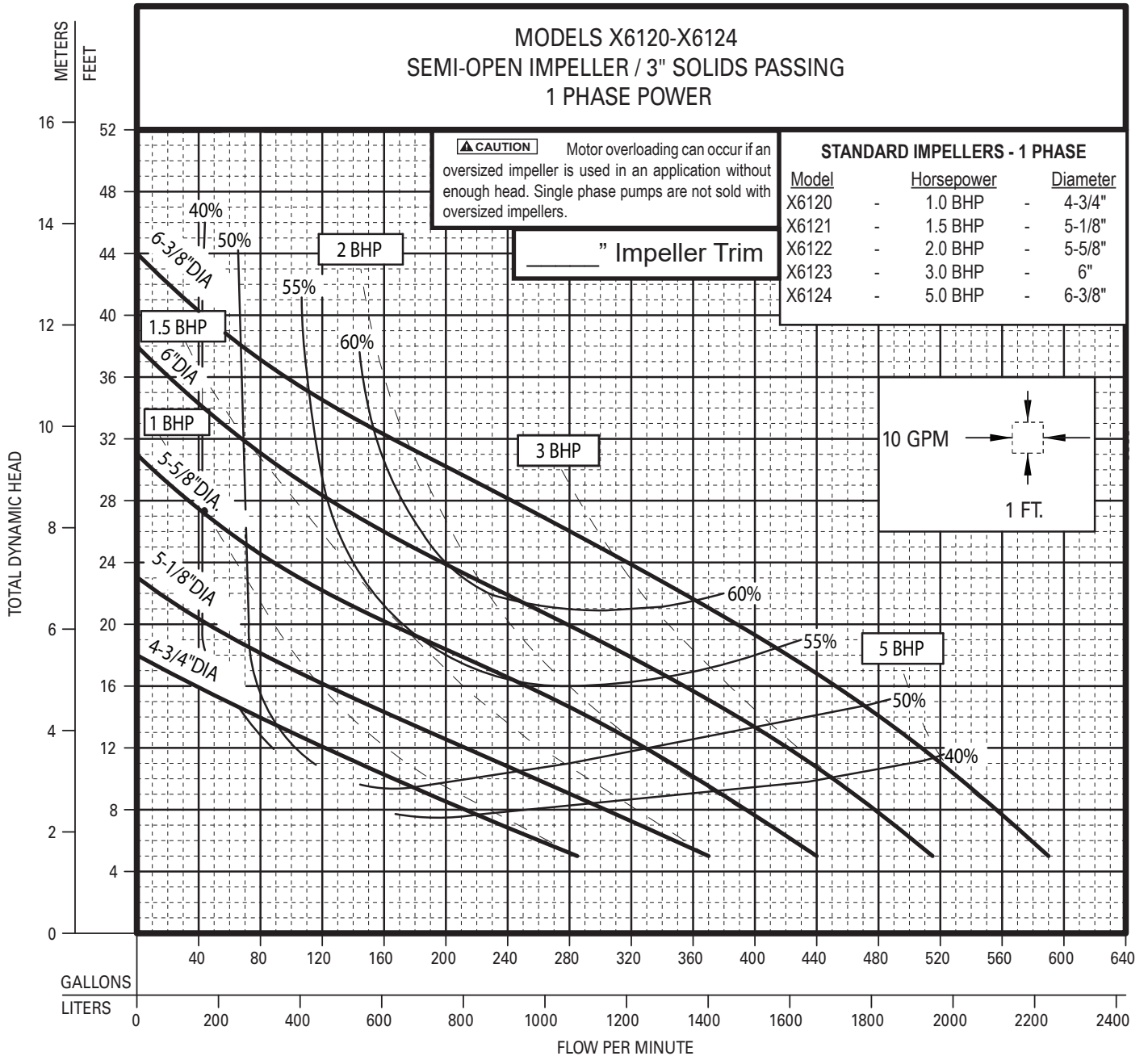
A00520X



SEMI-OPEN IMPELLER PERFORMANCE DATA 1 PHASE 4" Horizontal Flanged Discharge 3" Solids Passing Capacity




 Certified to CSA Standard
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 Tested to FM Standard
 3600 & 3615



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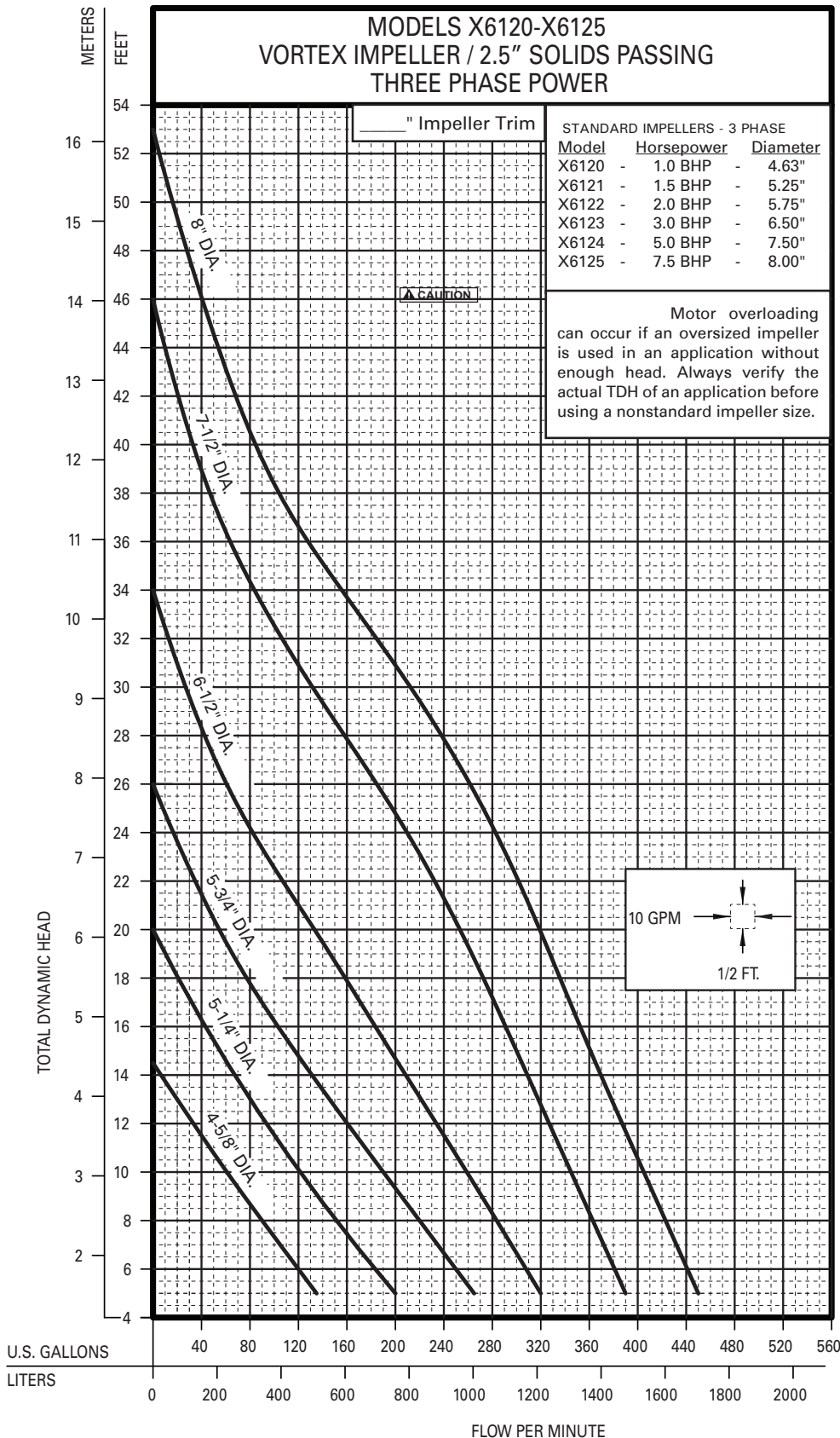
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VORTEX IMPELLER PERFORMANCE DATA 3 PHASE



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



A00667X



VORTEX IMPELLER

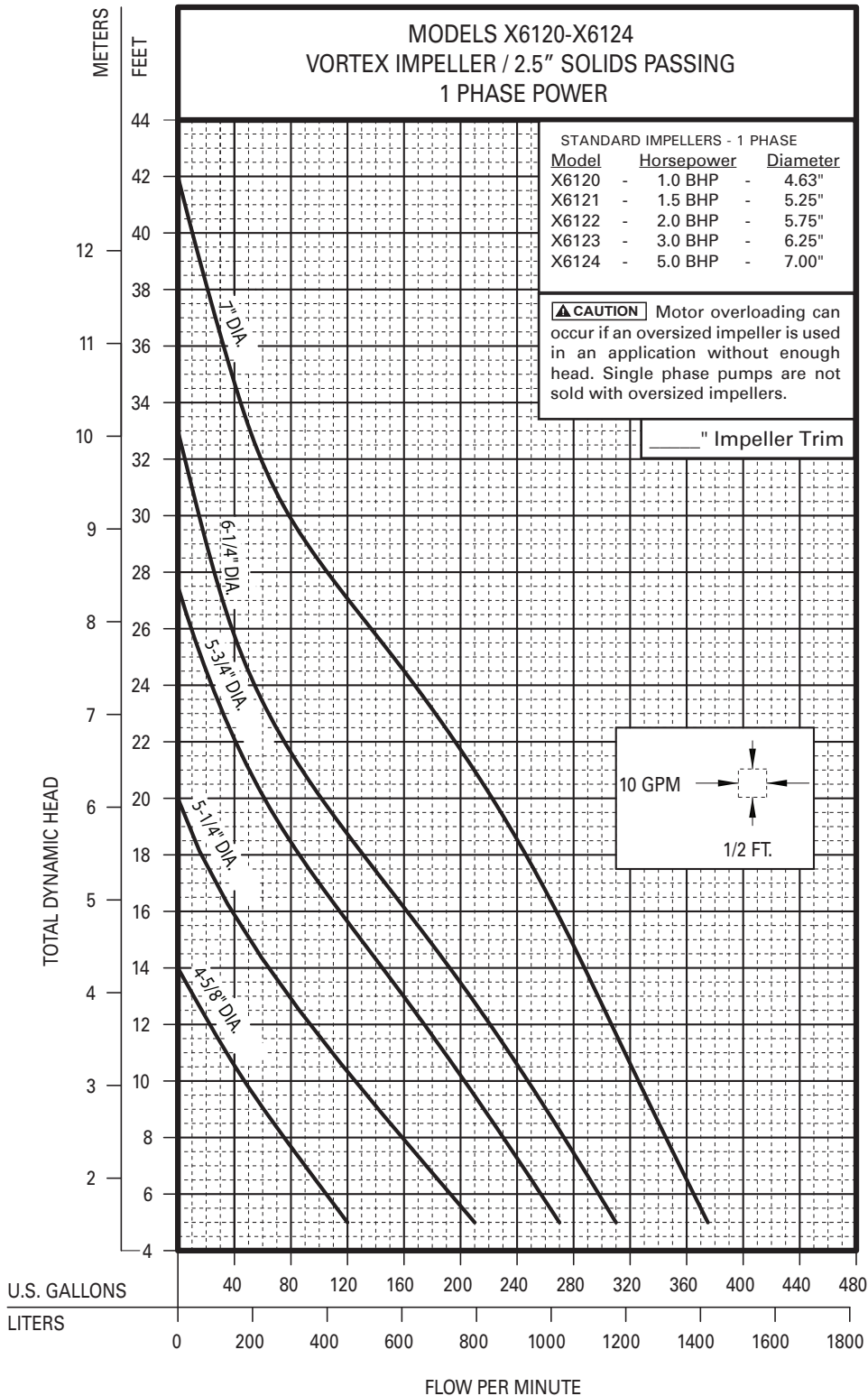
PERFORMANCE DATA

1 PHASE

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



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



A00665X



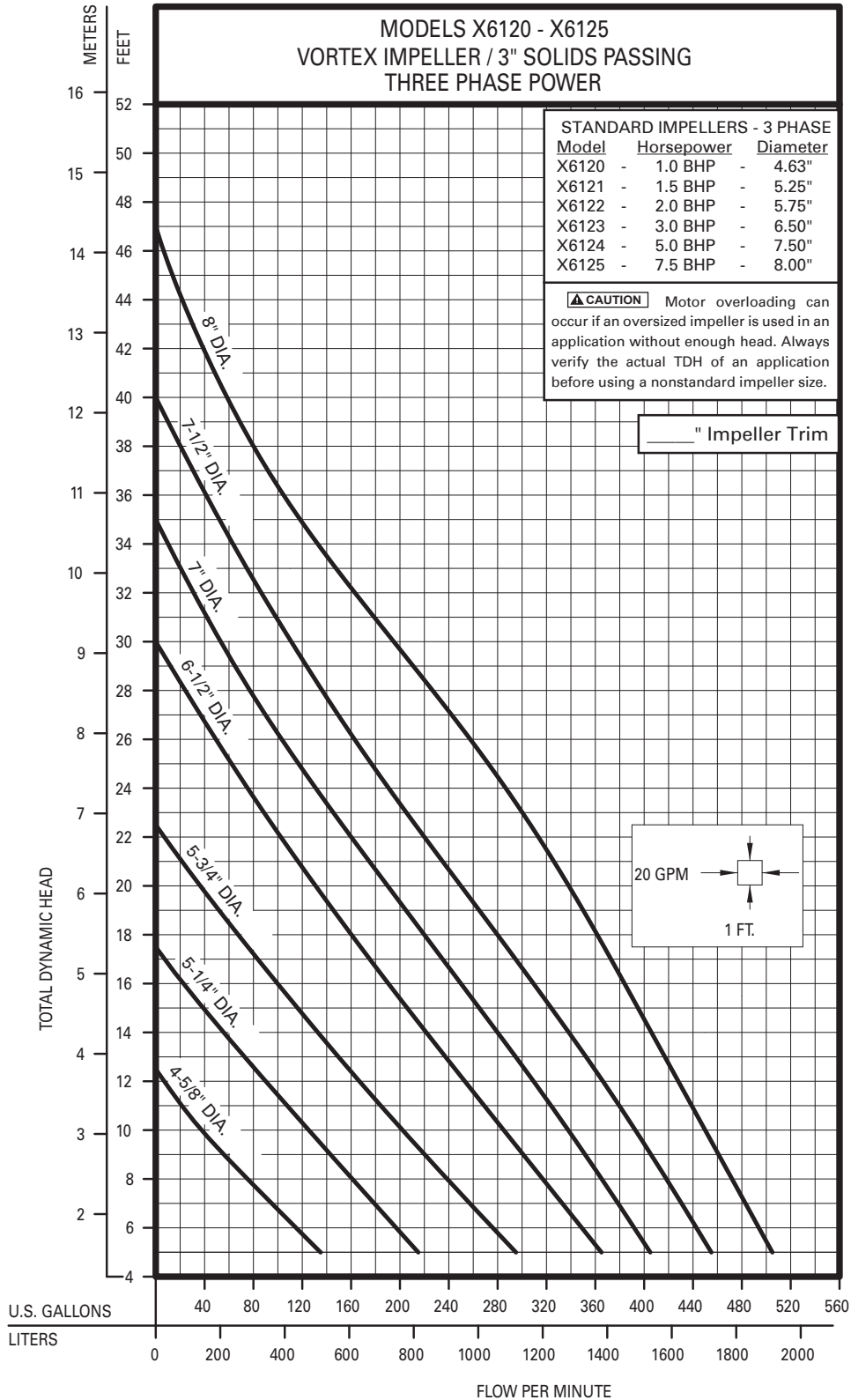
VORTEX IMPELLER PERFORMANCE DATA

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



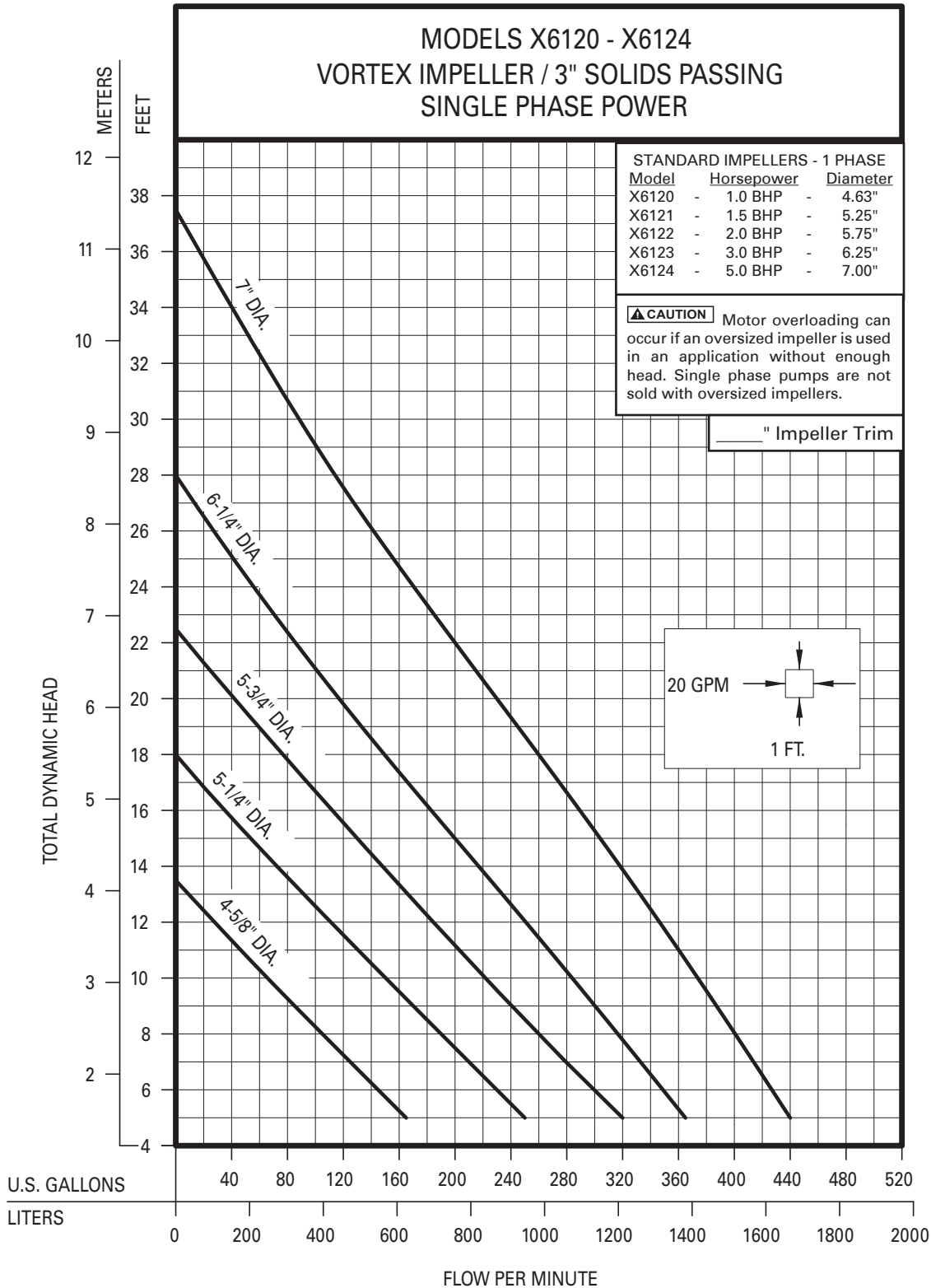
VORTEX IMPELLER

PERFORMANCE DATA

1 Phase

4" Horizontal Flanged Discharge

3" Solids Passing Capacity



A00666X



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