



AZIENDA CON SISTEMI QUALITA',
AMBIENTE, SALUTE E SICUREZZA
SUL LAVORO CERTIFICATI

ISO 9001: Certificato Nr. 50 100 3634
ISO 14001: Certificato Nr. 50 100 12552
OHSAS 18001: Certificato Nr. 18-104-807

PENTAX s.p.a.
37040 VERONELLA - VERONA - ITALY
Viale dell'Industria, 1
<http://www.pentax-pumps.it>

Tel. +39 0442 489500
Fax. +39 0442 489510

Company		Date	28/02/2020
Project		Item	
Pump	PSC 125-315 Impeller Ø 250	Ref No.	

Liquid Data

Liquid	Water	Density	998.30 kg/m³
Temperature	20 °C	Viscosity	1.005 mm²/s
Vapor Pressure	2.2045 kPa	pH Value	7

Operating Point Data

Capacity	472.6 m³/h	NPSHr	5.0 m
Head	73.3 m	Motor Power	132.00 kW
Efficiency (%)	78.3	Speed	2980 rpm
Power at Duty Point	120.0 kW	Frequency	50 Hz
Impeller Diameter	Ø 250	Shut Off Head	86.9 m

Pump Data

Design	Horizontal, double suction, single stage, axially split volute casing pump		
Installation	Horizontal	Direction Of Rotation	Clockwise from the drive end
Suction Flange	EN 1092 PN 16-DN 200	Impeller Type	Double Suction
Discharge Flange	EN 1092 PN 16-DN 125	Pump Weight	330 kg
		Impeller construction	

Shaft Sealing

Type	Mechanical Seal	Material	

Materials

CASING	CAST IRON - GG 25
IMPELLER	DUCTILE CAST IRON - GGG 40
SHAFT	STAINLESS STEEL - AISI 420+QT800
SHAFT SLEEVE	STAINLESS STEEL - AISI 420
CASING WEAR RING	BRONZE - GCUSN10
SEALING TYPE	MECHANICAL SEAL



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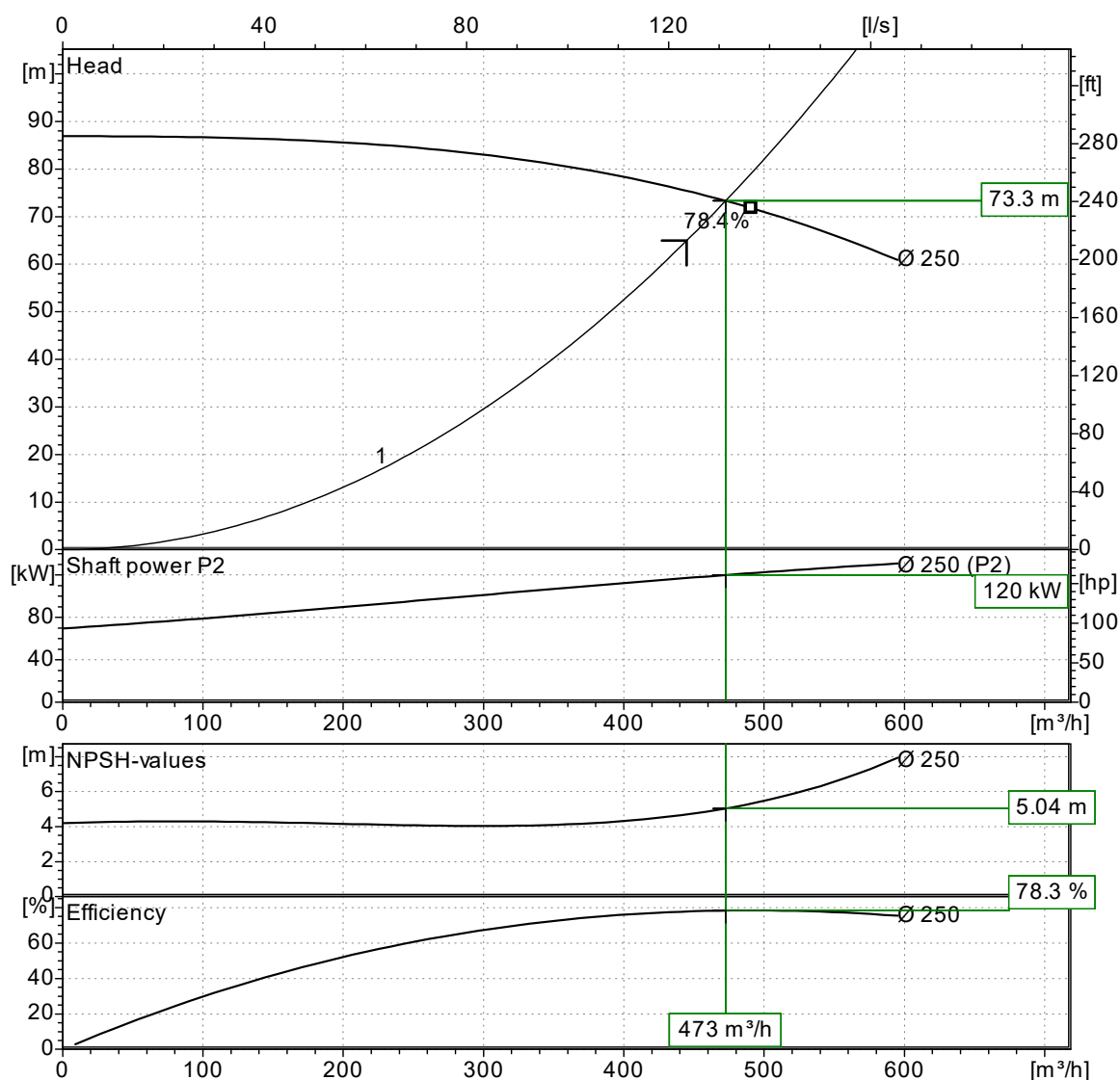
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Company		Date	28/02/2020
Project		Item	
Pump	PSC 125-315	Ref No.	

Operating Point Data

Capacity: 472.6 m³/h
Head: 73.3 m
Efficiency (%): 78.3
Power at Duty Point: 120.0 kW
Max. Shaft Power: 130.8 kW

NPSHr: 5.0 m
Motor Power: 132.00 kW
Speed: 2980 rpm
Frequency: 50 Hz
Density: 998.30 kg/m³



Curves compatible with ISO 9906:2012 Gr 3B
NPSHa > NPSHr + 1m



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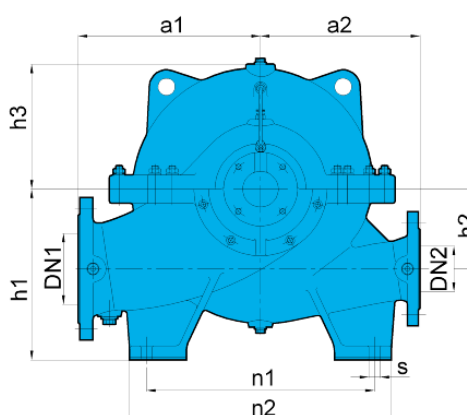
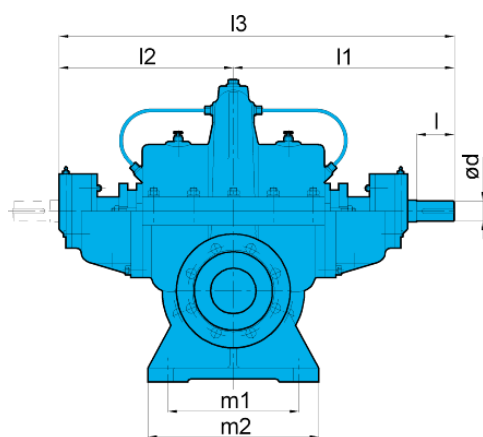
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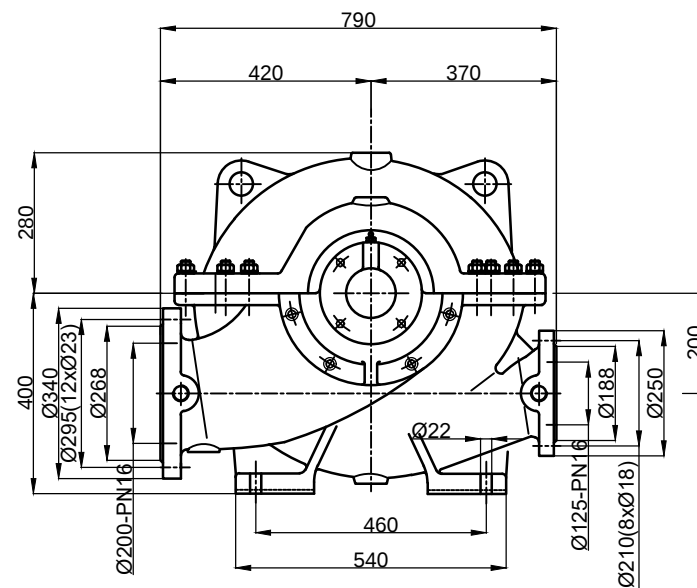
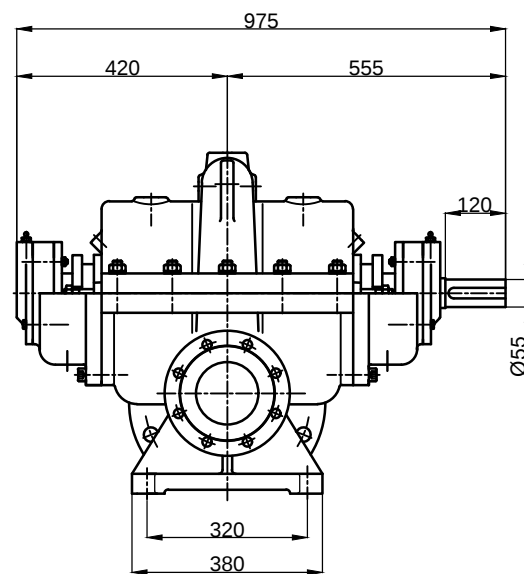
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Company		Date	28/02/2020
Project		Item	
Pump	PSC 125-315	Ref. No.	

Motor Data			
Efficiency Level		Frequency	50 Hz
Motor Name	132 kW-315 M	Motor Phase	3
Motor Power	132.0 kW	Service Factor	1.15
Line Power (P1)	0.00 kW	Insulation Class	F
Motor Power (P2)	132.00 kW	Degree of Protection	IP 55
Rated Speed	2950 rpm	Cos phi	0.00
Voltage	380 V	Efficiency	- %



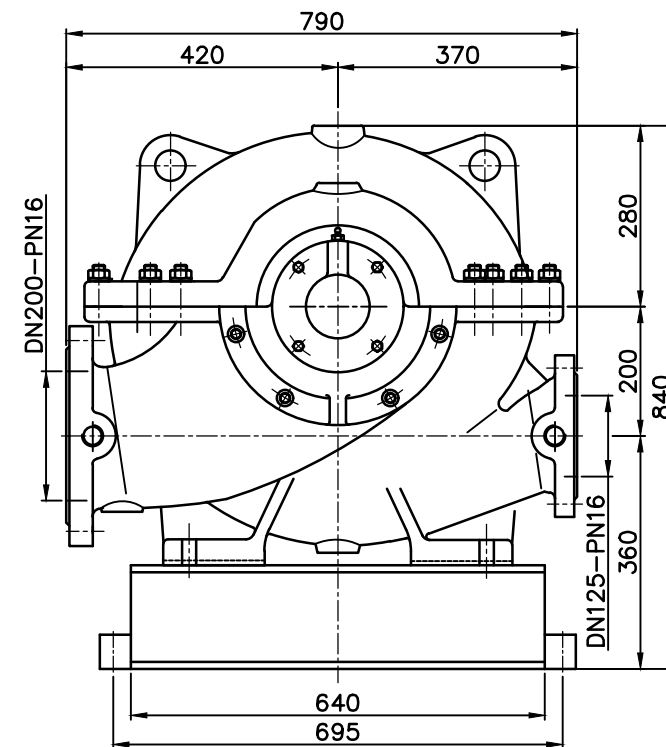
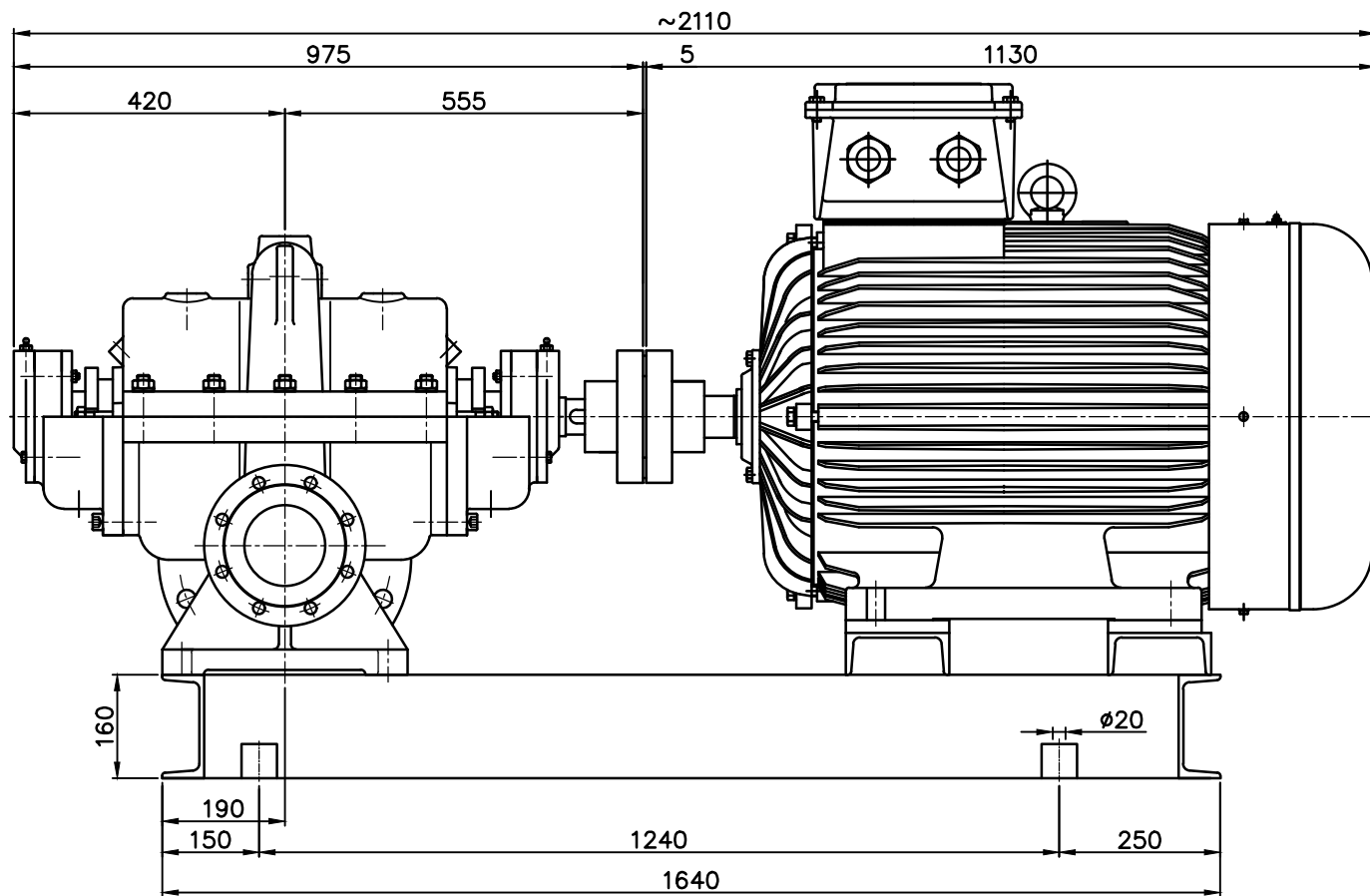
Name	Value
a1	420
a2	370
d	55
DN1	200
DN2	125
h1	400
h2	200
h3	280
KG	330
l	120
l1	585
l2	450
l3	1035
m1	320
m2	380
n1	460
n2	540
s	22



PUMP TYPE	Date	Motor	
		Type	Power / Speed
125-315	---	---	---



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-Provisional drawing.
Dimensions shall not be considered as exact to use in your installation.

-Dimensions may vary due to different motor types
-To change the dimensions without notice right reserved

PUMP TYPE

125-315

Motor

Type

315 M2

Power / Speed

132 kW / 3000rpm



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DATA SHEET

Operating Data			Materials	
Capacity	472.6 m ³ /h		Material combination	
Head	73.31 m		Pump	
NPSHr	5.0 m			
Speed	2980 rpm			
Efficiency	%78.3			
Shaft power	120.0 kW			
Liquid	Water			
Temperature	20 °C			
Density/Viscosity	998 kg/m ³ / 1 mm ² /s		Shaft Sealing	Mechanical Seal
Pump Data			Motor Data	
Pump name	PSC 125-315		Manufacturer	
No. of stages	1		Rated Power	132 kW
Impeller	Ø 250		Frequency	50 Hz
Impeller type	Double Suction		Motor Phase	3~
Suction Flange	EN 1092 PN 16-DN 200		Voltage	380 V
Suction Flange Diameter			Insulation Class	F
Discharge Flange	EN 1092 PN 16-DN 125		Degree of protection	IP 55
Discharge Flange Diameter	0		Type of protection	--
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