

Pump Performance Datasheet

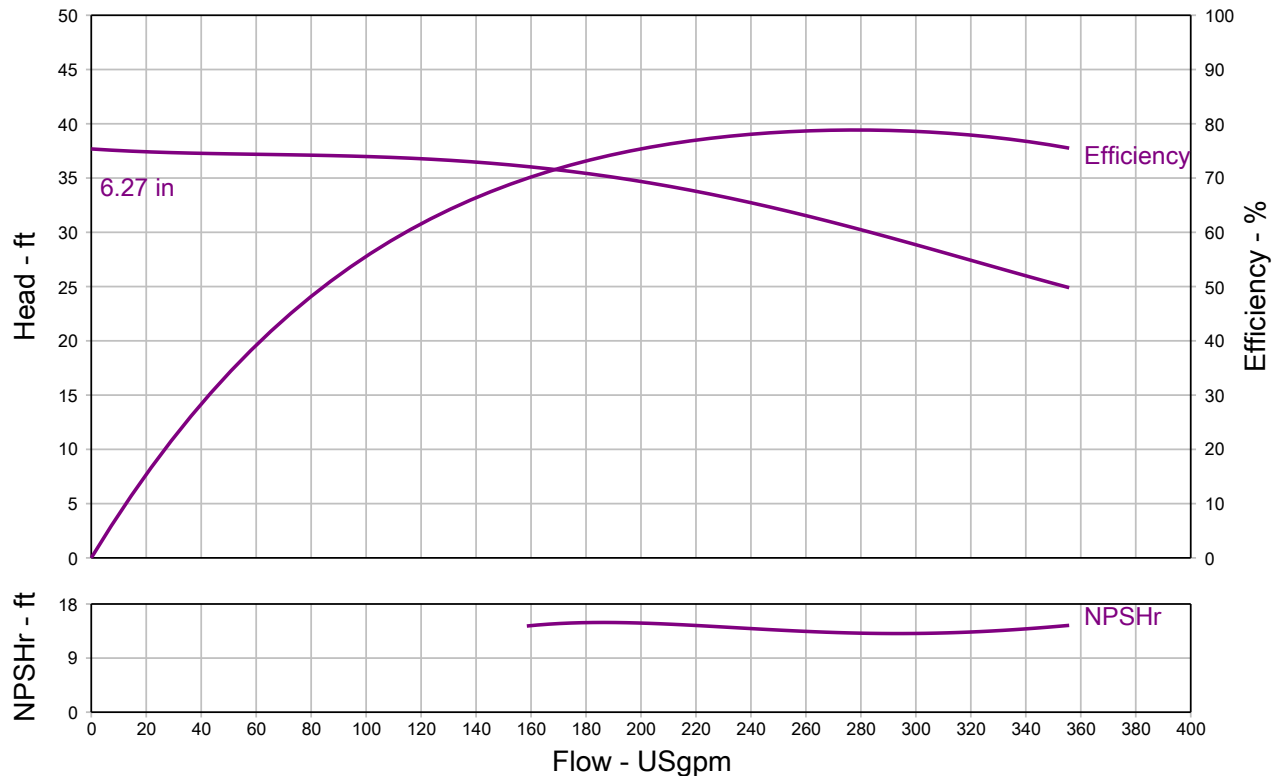
Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	40707 VL
Tag Number : 001	Stages :	1
Service :	Based on curve number :	VL_40707_4P Rev Aug21
Quantity : 1	Basic model number :	-
	Date last saved :	11/07/2023 3:50 PM

Operating Conditions		Liquid	
Flow, rated	: 278.1 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 30.36 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 30.53 ft	Solids diameter, max	: 0.00 in
Suction pressure, rated / max	: 0.00 / 0.00 psi.g	Solids concentration, by volume	: 0.00 %
NPSH available, rated	: Ample	Temperature, max	: 68.00 deg F
Site Supply Frequency	: 60 Hz	Fluid density, rated / max	: 1.000 / 1.000 SG

Performance		Material	
Speed, rated	: 1760 rpm	Material selected	: Cast iron - 125#
Impeller diameter, rated	: 6.27 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 5.00 in		

Performance		Pressure Data	
Efficiency	: 78.85 %	Maximum working pressure	: 16.31 psi.g
NPSH required / margin required	: 13.16 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 38 / 88 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 79.80 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 37.68 ft		
Head rise to shutoff	: 24.11 %		
Flow, best eff. point	: 278.2 USgpm		
Flow ratio, rated / BEP	: 99.99 %		
Diameter ratio (rated / max)	: 88.31 %		
Head ratio (rated dia / max dia)	: 67.80 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
PEI (CL)	: 0.94	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 6	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 2.13 hp
		Rated power (based on duty point)	: 2.70 hp
		Max power (non-overloading)	: 2.96 hp
		Nameplate motor rating	: 3.00 hp / 2.24 kW



Grundfos Series VL - In-Line Centrifugal Pump, Close Coupled

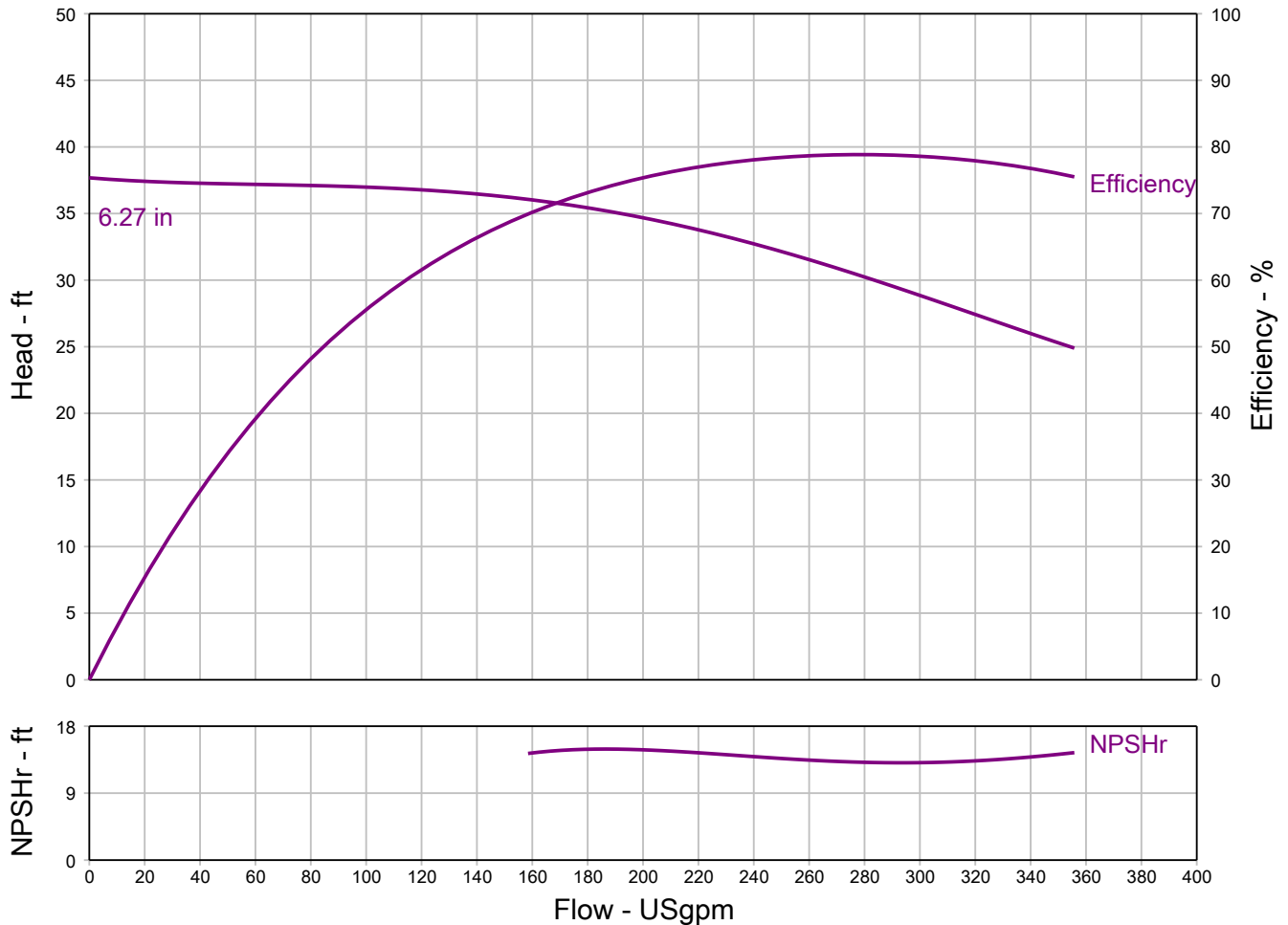
QUOTE NUMBER / ID 1471203	UNIT TAG 001	QUANTITY 1
REPRESENTATIVE	SERVICE	
ENGINEER	SUBMITTED BY	DATE
CONTRACTOR	APPROVED BY	DATE
	ORDER #	DATE



VL 40707
1760 rpm

Part Number N/A

Conditions of Service		Pump Data		Motor Data	
Flow	278.1 USgpm	Impeller Diameter	6.26 in	Motor HP	3 HP
Head	30.36 ft	Max. Imp. Dia.	7.10 in	BHP	2.7 HP
Liquid	Cold Water	Min. Imp. Dia.	5.00 in	Enclosure	TEFC
Temperature	68.00 deg F	Efficiency	78.85 %	Voltage	230/460 V
NPSHr	13.16 ft	Suction	4 in.	Phase	3 Phase
Viscosity	1.00 cP	Discharge	4 in.	Cycle	60
Specific Gravity	1.000 SG	PEI (CL)	0.94	Frame Size	182JM
		ER (CL)	6		



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Do not install pump larger than 215JM in vertical piping.

Pressure and drain tap locations are approximate.

Suction and discharge flanges, are cast per 250# ANSI thickness and diameter. All flanges are flat face. Some holes may be threaded because of nut clearances.



NOT FOR CONSTRUCTION, unless certified and referenced on order

Units	Frame	S x D	AG (Max)	DC	DD	DE	E	P (Max)	X	YY	Weight
inches	182JM	4 X 4	20.00	5.13	6.69	7.38	1.97	10.00	10.00	10.00	TBD