

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	20121 LC
Tag Number : 001	Stages :	1
Service :	Based on curve number :	RC1991 Rev 1
Quantity : 1	Basic model number :	-
	Date last saved :	09/18/2023 6:45 PM

Operating Conditions		Liquid	
Flow, rated	: 204.8 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 106.5 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 106.5 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
		Viscosity, rated	: 1.00 cP
		Vapor pressure, rated	: 0.34 psi.a
Performance		Material	
Speed, rated	: 1760 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 11.40 in		
Impeller diameter, maximum	: 12.10 in	Pressure Data	
Impeller diameter, minimum	: 9.63 in	Maximum working pressure	: 57.39 psi.g
Efficiency	: 64.57 %	Maximum allowable working pressure	: 175.0 psi.g
NPSH required / margin required	: 7.33 / 0.00 ft	Maximum allowable suction pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 14 / 102 Metric units	Hydrostatic test pressure	: 263.0 psi.g
MCSF	: 67.91 USgpm		
Head, maximum, rated diameter	: 132.6 ft	Driver & Power Data (@Max density)	
Head rise to shutoff	: 24.47 %	Motor sizing specification	: Max power (non-overloading)
Flow, best eff. point	: 204.8 USgpm	Margin over specification	: 0.00 %
Flow ratio, rated / BEP	: 100.00 %	Service factor	: 1.00
Diameter ratio (rated / max)	: 94.21 %	Power, hydraulic	: 5.51 hp
Head ratio (rated dia / max dia)	: 84.81 %	Rated power (based on duty point)	: 8.53 hp
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 1.00 / 1.00	Max power (non-overloading)	: 9.99 hp
Selection status	: Acceptable	Nameplate motor rating	: 10.00 hp / 7.46 kW
Energy Indexes			
PEI (CL)	: 0.95		
ER (CL)	: 5		

