

Pump Performance Datasheet

Customer :	Quote Number / ID :	1471203
Customer ref. / PO :	Model :	10707 LC
Tag Number : 001	Stages :	1
Service :	Based on curve number :	RC9715-1-SS Rev 0
Quantity : 1	Basic model number :	-
	Date last saved :	09/19/2023 5:14 PM

Operating Conditions		Liquid	
Flow, rated	: 48.69 USgpm	Liquid type	: Cold Water
Differential head / pressure, rated (requested)	: 31.49 ft	Additional liquid description	:
Differential head / pressure, rated (actual)	: 31.49 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	: 1765 rpm	Material selected	: Cast iron
Impeller diameter, rated	: 5.90 in		
Impeller diameter, maximum	: 7.10 in		
Impeller diameter, minimum	: 4.50 in		

Performance		Pressure Data	
Efficiency	: 59.41 %	Maximum working pressure	: 16.27 psi.g
NPSH required / margin required	: 5.48 / 0.00 ft	Maximum allowable working pressure	: 175.0 psi.g
nq (imp. eye flow) / S (imp. eye flow)	: 14 / 59 Metric units	Maximum allowable suction pressure	: 175.0 psi.g
MCSF	: 14.04 USgpm	Hydrostatic test pressure	: 263.0 psi.g
Head, maximum, rated diameter	: 37.59 ft		
Head rise to shutoff	: 19.17 %		
Flow, best eff. point	: 48.69 USgpm		
Flow ratio, rated / BEP	: 100.01 %		
Diameter ratio (rated / max)	: 83.10 %		
Head ratio (rated dia / max dia)	: 61.62 %		
Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010]	: 1.00 / 1.00 / 0.99 / 1.00		
Selection status	: Acceptable		

Energy Indexes		Driver & Power Data (@Max density)	
PEI (CL)	: 0.90	Motor sizing specification	: Max power (non-overloading)
ER (CL)	: 10	Margin over specification	: 0.00 %
		Service factor	: 1.00
		Power, hydraulic	: 0.39 hp
		Rated power (based on duty point)	: 0.65 hp
		Max power (non-overloading)	: 0.74 hp
		Nameplate motor rating	: 0.75 hp / 0.56 kW

